

Curriculum Vitae

David Ríos Insua

CURRICULUM VITAE

1. PERSONAL DATA

SURNAME AND NAME: Ríos Insua, David.

NID: 808048N.

BORN: Madrid (Madrid). DATE: 21st June, 1964

RESIDENCE: Madrid (Madrid).

POSITION: Research Professor

ORGANIZATION: The Spanish National Research Council (CSIC)

CURRENT CENTER: Institute of Mathematical Sciences (ICMAT)

ORCID: <https://orcid.org/0000-0002-5748-9658>

SCOPUS AUTHOR ID: 55665270900

CURRENT POSITIONS

- Research Professor, ICMAT CSIC. (from May 10th 2021)
- Professor of Statistics and Operations Research. Universidad Complutense de Madrid. (from December 15th 2020, now on leave)
- AXA-ICMAT Chair in Adversarial Risk Analysis (from September 1st 2014)
- Member, Spanish Royal Academy of Sciences (Section of Mathematics) (from March 18th 2008)
- Permanent member Higher Statistical Council.

2. DEGREES

- Master in Mathematical Sciences (Operations Research), Facultad de Ciencias Matemáticas, Universidad Complutense de Madrid, March 11th 1988, Mark (3.66) (National Prize, Extraordinary Prize). Thesis: Vector Optimization over Time. Tutor: Sixto Ríos.
- Philosophy Doctor, University of Leeds, School of Computer Studies, March 14th 1990. Thesis: Sensitivity Analysis in Multiobjective Decision Making. Tutor: Simon French.
- Homologated as PhD in Informatics, Ministry of Science and Education, July 26th 1990.
- Corresponding member Royal Academy of Sciences, May 26th 1999.
- Full member Royal Academy of Sciences, February 25th 2008.

3. TEACHING POSITIONS

- Demonstrator, School of Computer Studies, University of Leeds, Part time, October 1st 1988- May 31st 1989.
- Assistant Professor (untenured), Department of AI, Madrid Technical University, October 3rd 1989- September 30th 1990.
- Associate Professor (untenured) Department of AI, Madrid Technical University, October 1st 1990- February 13th 1992.
- Associate Professor, Department of AI, Madrid Technical University, February 14th 1992- April 13th 1999 (leave of absence at URJC from 1997 until 1999).
- Visiting Associate Professor, Department of Statistics, Purdue University, August 22nd 1994 – December 10th 1994.
- Visiting Professor, Universidad Técnica de Ambato, July 20th 2014 – August 15th 2014.
- Visiting Professor, LAMSADE, Universite Paris Dauphine, Spring 2010.
- Visiting Professor, LAMSADE, Universite Paris Dauphine, Spring 2012.
- Visiting Fellow, SAL, Aalto University, Spring 2018.
- Visiting Fellow, School of Management, University of Shanghai for Science and Technology, 2020.
- Professor of Statistics and Operations Research, Department of Computer Science and Statistics, Rey Juan Carlos University, March 16th 1999- December 15th 2020 (on leave since September 1st 2014).
- Visiting Professor, LAMSADE, Universite Paris Dauphine, Spring 2021.
- Visiting Professor, LAMSADE, Universite Paris Dauphine, Spring 2022.

4. RESEARCH POSITIONS

- Course 85-86, Intro to Research Grant, CECIME, CSIC.
- Course 86-87, Intro to Research Grant, CECIME, CSIC.
- Course 87-88, Research Student (Grant Bank of Spain), University of Manchester.
- Course 88-89, Research Student (Grant Bank of Spain), University of Leeds
- Summer 1990, Research Associate (Young Scientist Summer Program), IIASA MDA, Laxenburg, Austria.
- Summer 1991, Research Associate (Peccei Scholar), IIASA MDA, Laxenburg, Austria.
- Course 92-93, Visiting Scholar (Grant Movilidad Personal Investigador), ISDS, Duke University.
- September 95 - February 96, Visiting Scholar (Grant CNR), CNR-IAMI, Milano.
- March 97 - May 97, Visiting Scholar (Grant CNR), CNR-IAMI, Milano.

- 2002-2007, Chairman program on Electronic Democracy ESF.
- Fall 07, Risk Analysis, Extreme Events and Decision Theory Program Leader, SAMSI, USA.
- Course 2006-2009, Coordinator program E-Democracia-CM.
- Course 2010-2014, Coordinator program Riesgos-CM.
- September 2014 - today, AXA-ICMAT Chair.
- Spring 2018, Aalto University, Visiting Fellow.
- Course 2019-2020, Games and Decisions in Risk and Reliability Program Leader, SAMSI, USA.
- Visiting Fellow, School of Management, University of Shanghai for Science and Technology, 2020.

5. PUBLICATIONS (Books and Monographs)

- 1) **Ríos Insua, D.** (1990). *Sensitivity Analysis in Multi-objective Decision Making*. Lecture Notes in Economics and Mathematical Systems, vol 347, 1990. Springer, Berlin, Heidelberg. ISBN: 978-3-540-52692-6. <https://doi.org/10.1007/978-3-642-51656-6>
- 2) Ríos Insua, S. (1994). *Decision Theory and Decision Analysis: Trends and Challenges*, (editor associate Ríos, S. and **Ríos Insua, D.**). Kluwer. ISBN: 978-94-010-4600-8. <https://doi.org/10.1007/978-94-011-1372-4>
- 3) French, S. and **Ríos Insua, D.** (2000). *Statistical Decision Theory: Kendall's Library of Statistics* 9. John Wiley & Sons, Ltd. ISBN: 978-0-470-71105-7
- 4) **Ríos Insua, D.** and Valdivieso Dumont, JA. (2006). *Avances en Tecnologías de la Información y de las Comunicaciones para la Seguridad y la Defensa*. Ministerio de Defensa. CESEDEN. ISBN: 84-9781-288-3
- 5) Jiménez, A. **Ríos Insua, D.** Ríos Insua, S. and Martín, J. (2008). *Simulación: Métodos y Aplicaciones*, 2^a edición 2008. RA-MA. ISBN: 978-84-7897-895-3
- 6) **Ríos Insua, D.**, Ríos, J., Rubio, JA. and Vera, JM. (2008) *Hacia la Democracia Electrónica*. LID Editorial. ISBN: 9788483560624
- 7) **David Ríos Insua**. *TIC3: Matemáticas, Política y TIC*, Reception lecture at Royal Academy of Sciences. February 2008.
- 8) **Ríos Insua D.**, French S. (eds) (2010). *e-Democracy. Advances in Group Decision and Negotiation*, vol 5. Springer, Dordrecht. <https://doi.org/10.1007/978-90-481-9045-4>
- 9) **Ríos Insua, D.**, Ruggeri, F. and Wiper M.P. (2012). *Bayesian Inference for Stochastic Processes*, 2012 John Wiley & Sons, Ltd. ISBN: 978-0-470-74453-6. <https://doi.org/10.1002/9780470975916>
- 10) Banks. D, Ríos. J and **Ríos Insua, D.** (2015) *Adversarial Risk Analysis*. Francis Taylor. Chapman and Hall/CRC (2015) <https://doi.org/10.1201/b18653>
- 11) O' Malley, M., **Ríos Insua, D.** et al (eds) (2017) *Valuing dedicated storage in electricity grids*. EASAC. ISBN: 978-3-8047-3729-7

- 12) **Ríos Insua, D** and Gómez-Ullate, D (2019) *Big Data y Sociedad*, CSIC-La Catarata. ISBN: 978-84-00-10534-1
- 13) Andrés. F and **Ríos Insua, David** (2020) *Innovación tecnológica en inteligencia*, CNI (forthcoming).
- 14) **Insua D.R.**, Ruggeri F. (eds) (2020). *Robust Bayesian Analysis. Lecture Notes in Statistics*, vol 152. Springer, New York. <https://doi.org/10.1007/978-1-4612-1306-2>
- 15) **Insua, D.R.**, Baylon, C., & Vila, J. (Eds.). (2020). *Security Risk Models for Cyber Insurance* (1st ed.). Chapman and Hall/CRC. <https://doi.org/10.1201/9780429329487>
- 16) Fotakis, D. and **Ríos Insua, D.** (2021) *Algorithmic Decision Theory 2021*, Springer Verlag.
- 17) **Ríos Insua, D.** and Naveiro, R. (2022) *Análisis de Riesgos*, CSIC-La Catarata

Special issues edited

- 1) **Ríos Insua, D.** (1999). Introduction to the special issue on sensitivity analysis. *Journal of Multicriteria Decision Analysis*, 8: 117-118. [https://doi.org/10.1002/\(SICI\)1099-1360\(199905\)8:3<117::AID-MCDA251>3.0.CO;2-5](https://doi.org/10.1002/(SICI)1099-1360(199905)8:3<117::AID-MCDA251>3.0.CO;2-5)
- 2) **Insua, D.R.** (2008). Introduction to the special issue on e-democracy. *Group Decision and Negotiation*, 17: 175–177. <https://doi.org/10.1007/s10726-007-9077-7>
- 3) Dias, LC., Henggeler Antunes, C. and **Ríos Insua, D.** (2012). Special issue on intelligent technologies for planning and decision making under uncertainty. Intelligent technologies for planning and decision making under uncertainty. *Intelligent Decision Technologies*, 6 (4): 243-244. <https://doi.org/10.3233/IDT-2012-0140>
- 4) Carlos Henggeler Antunes, CH., **Ríos Insua, D.** and Dias, LC. (2014). Uncertainty and robustness in planning and decision-making Special Issue, *International Journal of Systems Science*, 45 (1): 1-2. <https://doi.org/10.1080/00207721.2012.761372>
- 5) Clímaco, J. and **Insua, D.R.** (2014). Special issue Group Decision and Negotiation Introduction. *Group Decision and Negotiation*, 23: 1–3. <https://doi.org/10.1007/s10726-012-9331-5>
- 6) Alves, M.J., Antunes, C.H. and **Insua, D.R.** (2013). Robustness. *Special issue Journal of Multicriteria Decision Analysis*, 20: 1-1. <https://doi.org/10.1002/mcda.1498>
- 7) Daniell, K.A., Morton, A. and **Ríos Insua, D.** (2016). Special issue on policy analytics. Policy analysis and policy analytics. *Annals of Operations Research*, 236: 1–13. <https://doi.org/10.1007/s10479-015-1902-9>
- 8) Pievatolo. A, **Insua. DR** and Wilson, S. (2019). Special issue of ASMBI for GDDR 2017. Foreword. *Applied Stochastic Models in Business and Industry*, 35: 398– 398. <https://doi.org/10.1002/asmb.2461>

Teaching monographs

- 1) Ríos Insua, S., **Ríos Insua, D.**, Mateos, A. and Martín, J. (1997). *Programación Lineal y Aplicaciones: Ejercicios Resueltos*. Alfaomega. RA-MA. ISBN: 970-15-0362-7
2^a edición 2006 Problemas de Investigación Operativa: Programación Lineal y Extensiones.

6. PUBLICATIONS (Articles and book chapters)

Articles and chapters with review

- 1) **Ríos Insua, D.** (1987). Sobre soluciones óptimas en problemas de optimización multiobjetivo. *Trabajos de Investigación Operativa*, 2: 49-67. <https://doi.org/10.1007/BF02888810>
- 2) French S., **Insua D.R.** (1989). Partial Information and Sensitivity Analysis. In: Lockett A.G., Islei G. (eds) Improving Decision Making in Organisations. Lecture Notes in Economics and Mathematical Systems, vol 335, pp: 424. Springer, Berlin, Heidelberg. https://doi.org/10.1007/978-3-642-49298-3_39
- 3) **Ríos Insua, D.** (1990). Métodos coherentes para la modelización de la imprecisión. *Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales*, 84: 335 - 338.
- 4) **Ríos Insua, D.** and French, S. (1991). A framework for sensitivity analysis in multiobjective decision making. *European Journal of Operations Research*, 54: 176-190. [https://doi.org/10.1016/0377-2217\(91\)90296-8](https://doi.org/10.1016/0377-2217(91)90296-8)
- 5) **Ríos Insua, D.** (1992). On the foundations of decision making under partial information. In: Geweke (ed) *Utility Theory under Risk and under Uncertainty. New Models and Empirical Findings*, pp: 93-100. Kluwer. ISBN: 0-7923-1904-4
- 6) Ríos Insua, S. and **Ríos Insua, D.** (1992). Análisis de Decisiones e Inteligencia Artificial. In: Maravall Casesnoves, D. (ed) *Inteligencia Artificial: Fundamentos Teóricos Aplicados*. Real Academia de Ciencias Exactas, Físicas y Naturales, pp:171-191.
- 7) **Ríos Insua, D.** (1993). On the Foundations of Decision Making under Partial Information. *Theory and Decision*, 33: 83-100. <https://doi.org/10.1007/BF00133984>
- 8) Proll, L., **Ríos Insua, D.** and Salhi, A. (1993). Mathematical programming and the sensitivity of multicriteria decisions. *Annals of Operations Research*, 43: 109-122. <https://doi.org/10.1007/BF02024488>
- 9) Ríos Insua, S. and **Ríos Insua, D.** (1993). Extensiones y aplicaciones de diagramas de influencia. In: Maravall Casesnoves, D. (ed) *Inteligencia Artificial: Teoría y Práctica*. Real Academia de Ciencias Exactas, Físicas y Naturales, pp: 187-200.
- 10) **Ríos Insua, D.** (1994). Ambiguity, Imprecision and Sensitivity in Decision Theory. In: Vilaplana JP, Puri ML (eds) *Recent Advances in Statistics and Probability*, pp: 219-232. VSP.
- 11) **Insua D.R.**, Martín J. (1994) On the Foundations of Robust Decision Making. In: Ríos S. (eds) *Decision Theory and Decision Analysis: Trends and Challenges*, pp: 103-112. Springer, Dordrecht. https://doi.org/10.1007/978-94-011-1372-4_7
- 12) Ríos, S., Ríos Insua, S., **Ríos Insua, D.** and Pachón, JG. (1994). Experiments in robust decision making. In: Ríos S. (eds) *Decision Theory and Decision Analysis: Trends and Challenges*, pp: 233-242. Springer, Dordrecht. https://doi.org/10.1007/978-94-011-1372-4_17
- 13) **Ríos Insua, D.**, Pachón, JG. and Martin, J. (1994). Algunas aplicaciones de la Inferencia Bayesiana a la Inteligencia Artificial. In: Maravall Casesnoves, D. and Maravall Gómez-Allende, D. (ed) *Fronteras de la Informática*, Real Academia de Ciencias Exactas, Físicas y Naturales, pp: 149-168. ISBN: 84-600-8920-7

- 15) Ríos Insua, S. and **Ríos Insua, D.** (1994). Problemas de decisión complejos: tratamiento coherente. *Contribuciones matemáticas: estudios en honor del profesor José Javier Etayo Miqueo*, pp: 171-178. Editorial Complutense. ISBN: 84-7491-510-4
- 16) Vidakovic, B. and **Ríos Insua, D.** (1994). Some simple efficient rules in gamma-minimax estimation. *Communications in Statistics, Computation and Simulation*, 23 (2): 393-414. <https://doi.org/10.1080/03610919408813177>
- 17) **Ríos Insua, D.** and Martín, J. (1994). Robustness issues under imprecise beliefs and preferences. *Journal of Statistical Planning and Inference*, 40: 383-389.
- 18) **Ríos Insua, D.** and Salewicz, K. (1995). The operation of Kariba Lake: a Multiobjective decision analysis. *Journal of Multicriteria Decision Analysis*, 4: 203-222. <https://doi.org/10.1002/mcda.4020040402>
- 19) **Insua, D.**, Ruggeri, F. and Vidakovic, B. (1995). Some Results on Posterior Regret Γ-Μτνιμαχ Εστιματισμός. *Statistics & Risk Modeling*, 13(4): 315-332. <https://doi.org/10.1524/strm.1995.13.4.315>
- 20) Bielza, C, **Ríos Insua, D.** and Ríos Insua, S. (1996). Influence diagrams under partial information. In: Bernardo, JM., Berger, JO., Dawid, AP. and Smith, AFM (eds) *Bayesian Statistics 5: Proceedings of the Fifth Valencia International Meeting*, pp: 491-497. Oxford: Clarendon Press; New York: Oxford University Press. ISBN: 978-019852567
- 21) Müller P., **Insua D.R.** (1996). Posterior Simulation for Feed Forward Neural Network Models. In: Prat A. (eds) COMPSTAT, pp: 385-390. Physica-Verlag HD. https://doi.org/10.1007/978-3-642-46992-3_51
- 22) **Ríos Insua, D.**, Martín, J., Proll, L, French, S. and Salhi, A. (1997). Sensitivity analysis in statistical decision theory: a decision analytic view. *Journal of Statistical Computation and Simulation*, 57 (1): 197-218. <https://doi.org/10.1080/00949659708811808>
- 23) **Ríos Insua, D.**, Salewicz, KA., Müller, P. and Bielza, C. (1997). Bayesian Methods in Reservoir Operations. In: French, S and Smith, Q (eds) *The Practice of Bayesian Analysis*, pp: 107-130. Hodder Headline Group. ISBN: 0340662409
- 24) Martin, J., **Insua, D.**, and Ickstadt, K. (1996). Local Sensitivity Analysis in Bayesian Decision Theory [With Discussion and Rejoinder]. *Lecture Notes-Monograph Series*, 29: 119-135. <https://www.jstor.org/stable/4355914>
- 25) Ríos S., Ríos-Insua S., **Ríos-Insua D.**, Pachón J., Pacios M.A., Barreno P.G. (1997). Allais Phenomena and Completeness of Preferences. In: Nau R., Grønn E., Machina M., Bergland O. (eds) *Economic and Environmental Risk and Uncertainty*. Theory and Decision Library (Series B: Mathematical and Statistical Methods), vol 35, pp: 245-256. Springer, Dordrecht. https://doi.org/10.1007/978-94-017-1360-3_17
- 26) **Ríos Insua, D.**, Bielza, C., Martin, J. and Salewicz, K. (1997). BayRes: a system for stochastic multiobjective reservoir operations. In: Caballero et al (eds) *Advances in Multiobjective and Goal Programming*, pp: 103-118. Lecture Notes in Economics and Mathematical Systems, Springer. ISBN 3-540-63599-8
- 27) Müller, P. and **Ríos Insua, D.** (1998). Issues in Bayesian Analysis of Neural Network Model. *Neural Computation*, 10 (3): 571-592. <https://doi.org/10.1162/089976698300017737>
- 28) **Ríos Insua, D.**, Bielza, C., Martin, J. and Salewicz, K. (1998). Intelligent Decision Support for Reservoir Operations. In: Girón, Martínez (eds) *Applied Decision Analysis*, pp: 63-72. Kluwer. ISBN 0-7923-8250-1

- 29) Gallego E., Ríos-Insua S., Mateos A. and **Ríos Insua D.** (1998). Contaminated aquatic ecosystems restoration: a case study. In: Girón F.J. (eds) *Applied Decision Analysis*, pp:19-32. Springer, Dordrecht. https://doi.org/10.1007/978-94-017-0759-6_2
- 30) **Insua D.R.** and Müller P. (1998). Feedforward Neural Networks for Nonparametric Regression. In: Dey D., Müller P., Sinha D. (eds) *Practical Nonparametric and Semiparametric Bayesian Statistics*. Lecture Notes in Statistics, vol 133, pp: 181-190. Springer, New York, NY. https://doi.org/10.1007/978-1-4612-1732-9_9
- 31) Bielza, C. and **Ríos Insua, D.** (1998). Modelos gráficos para toma de decisiones. In: Gámez y Puerta (eds) *Sistemas Expertos Probabilísticos*, pp: 163-186. Editorial UCLM. ISBN: 84-89958-35-1
- 32) **Insua, D.R.**, Wiper, M. & Ruggeri, F. (1998). Bayesian analysis of M/Er/1 and M/Hk/1 Queues. *Queueing Systems, Theory and Applications*, 30: 289-308. <https://doi.org/10.1023/A:1019173206509>
- 33) Moreno, A. and **Ríos Insua, D.** (1998). Issues in service quality models. In: Bernardo, JM., Berger, JO., Dawid, AP. and Smith, AFM (eds) *Bayesian Statistics 6: Proceedings of the Sixth Valencia International Meeting*, pp: 441-458. Oxford: Clarendon Press; New York: Oxford University Press. ISBN: 978-0198504856
- 34) Martín, J., **Insua, D.**, and Ruggeri, F. (1998). Issues in Bayesian Loss Robustness. *Sankhyā: The Indian Journal of Statistics, Series A* (1961-2002), 60 (3): 405-417. www.jstor.org/stable/25051215
- 35) Bielza, C., Muller, P. and **Ríos Insua, D.** (1999). Decision analysis by augmented probability simulation. *Management Science*, 45 (7): 995-1008. <https://doi.org/10.1287/mnsc.45.7.995>
- 36) Pastor L., Rodríguez A., **Insua D.R.** (1999). Wavelets for object representation and recognition in computer vision. In: Müller P., Vidakovic B. (eds) *Bayesian Inference in Wavelet-Based Models*. Lecture Notes in Statistics, vol 141, pp: 267-290. Springer. https://doi.org/10.1007/978-1-4612-0567-8_17
- 37) Wiper, W. P., **Ríos Insua, D.**, and Hierons, R. (1999). Bayesian inference and optimal release times for two software models. *Revista de la Real Academia de Ciencias Exactas Físicas y Naturales*, 92 (4): 323-328. <http://eudml.org/doc/42115>
- 38) Ríos Insua, S., Martín, J., **Ríos Insua, D.** and Ruggeri, F. (1999). Bayesian forecasting for accident proneness evaluation *Scandinavian Actuarial Journal*, 2: 134-156. <https://doi.org/10.1080/03461239950132624>
- 39) Fernández, E., Menchero, A., Olmeda, I. and **Ríos Insua, D.** (1999). Redes Neuronales Artificiales en Finanzas. In Hernández, B. (ed), *Bolsa y Estadística Bursátil*, pp: 273-290. Díaz de Santos. ISBN: 84-7978-427-X
- 40) **Insua, D.R.**, Vidakovic, B. (2000). Wavelet based random densities. *Computational Statistics*, 15: 183-203. <https://doi.org/10.1007/s001800000027>
- 41) **Ríos Insua, D.**, Ruggeri, F. and Martín, J. (2000). Bayesian Sensitivity Analysis. In Saltelli, Chan, Scott (eds) *Handbook on Sensitivity Analysis in Model Output*, pp: 225-240. Wiley. ISBN: 978-0-470-74382-9
- 42) **Ríos Insua, D.**, Gallego, E., Mateos, A. *et al.* (2000). MOIRA: A DSS for restoration of aquatic ecosystems contaminated by radionuclides. *Annals of Operations Research*, 95: 341-364. <https://doi.org/10.1023/A:1018910326129>

- 43) Salhi, Abdellah; Proll, L. G.; **Ríos Insua, D.**; Martin, J. I. (2000). Experiences with stochastic algorithms for a class of constrained global optimisation problems. *RAIRO Operations Research*, 34 (2): 183-197. http://www.numdam.org/item/?id=RO_2000__34_2_183_0
- 44) **Insua D.R.**, Criado R. (2000). Topics on the Foundations of Robust Bayesian Analysis. In: Insua D.R., Ruggeri F. (eds) *Robust Bayesian Analysis. Lecture Notes in Statistics*, vol 152, pp: 33-42. Springer, New York, NY. https://doi.org/10.1007/978-1-4612-1306-2_2
- 45) Berger J.O., **Insua D.R.**, Ruggeri F. (2000). Bayesian Robustness. In: Insua D.R., Ruggeri F. (eds) *Robust Bayesian Analysis. Lecture Notes in Statistics*, vol 152, pp: 1-32. Springer, New York, NY. https://doi.org/10.1007/978-1-4612-1306-2_1
- 46) Wiper, M., **Insua, D.**, and Ruggeri, F. (2001). Mixtures of Gamma Distributions with Applications. *Journal of Computational and Graphical Statistics*, 10 (3): 440-454. <http://www.jstor.org/stable/1391098>
- 47) Proll, L., Salhi, A. and **Ríos Insua, D.** (2001). Improving an optimization-based framework for sensitivity analysis in multi-criteria decision-making. *Journal of Multi-Criteria Decision Analysis*, 10: 1-9. <https://doi.org/10.1002/mcda.283>
- 48) Palomo, J. and **Ríos Insua, D.** (2001). Algunos problemas en materia energética resueltos con el Análisis de Decisiones. In Barreno (ed), *Toma de Decisiones en Ambientes Profesionales*, Instituto de España, pp: 69-88. ISBN: 84-85559-71-1
- 49) Ríos García, S. and **Ríos Insua, D.** (2000). La arquitectura del razonamiento complejo, el sentido común y la probabilidad. In Millán (ed), *2000 Año Mundial de las Matemáticas*, Espasa Calpe y Real Academia de Ciencias, pp: 109-119.
- 50) **Ríos Insua D.**, Kersten G., Rios J. and Grima C. (2008). Towards Decision Support for Participatory Democracy. In: *Handbook on Decision Support Systems 2. International Handbooks Information System*, pp: 651-685. Springer, Berlin, Heidelberg. https://doi.org/10.1007/978-3-540-48716-6_30
- 51) Moguerza, J., Moreno, A. and **Ríos Insua.** (2002). La Estadística Bayesiana: Regreso al futuro. *Revista de la Real Academia de Ciencias, Monográfico Conmemoraciones Matemáticas: Tricentenario de Thomas Bayes* 95 (1-2): 123-145. ISSN1137-2141.
- 52) Marin J.M., Diez R.M., **Insua D.R.** (2002). Some Models for Down's Syndrome Risk Prediction. In: Gatsonis C. et al. (eds) *Case Studies in Bayesian Statistics. Lecture Notes in Statistics*, vol 167, pp: 301-310. Springer, New York, NY. https://doi.org/10.1007/978-1-4612-2078-7_15
- 53) Garcia del Amo, A. and **Ríos Insua, D.** (2002). A note on an open problem in the foundations of Bayesian Statistics. *Revista de la Real Academia de Ciencias Exactas, Fisicas y Naturales. Serie: Matemáticas* 96 (1): 55-62. ISSN-e 1578-7303
- 54) Diez R.M., **Ríos Insua, D.** and Palomo, J. (2002). Bayesian developments in hydrology, a review. *Revista de la Real Academia de Ciencias Exactas, Fisicas y Naturales. Serie: Matemáticas*, 96 (3): 461-474. ISSN-e 1578-7303
- 55) Martín, J., **Insua, D.R.** and Ruggeri, F. (2003). Joint sensitivity in bayesian decision theory. *Test* 12: 173–194. <https://doi.org/10.1007/BF02595818>
- 56) Marín, JM., Montes, R. and **Ríos Insua, D.** (2003). Bayesian methods in conservation biology. *Biological Conservation*. 113 (3): 379-387. ISSN 0006-3207. [https://doi.org/10.1016/S0006-3207\(03\)00124-1](https://doi.org/10.1016/S0006-3207(03)00124-1)

- 57) Virto, M., Martín, J., **Ríos Insua, D.** and Moreno Díaz, A. (2003). A method for sequential optimization in Bayesian analysis. *Bayesian Statistics 7. Proceedings of the Seventh Valencia International Meeting*, pp: 711-720. Oxford : Clarendon Press ; New York : Oxford University Press. ISBN: 9780198526155
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- 163) Adversarial Machine learning: perspectives from adversarial risk analysis, David Ríos Insua, Victor Gallego, Roi Naveiro and Jason Poulos. <https://arxiv.org/abs/2003.03546v1>
- 164) Assessing supply chain cyber risks. Alberto Redondo, Alberto Torres-Barrán, David Ríos Insua and Jordi Domingo. arXiv:1911.11652.

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- 166) Adversarial Machine Learning: An Adversarial Risk Analysis Perspective, con Naveiro, Gallego, Poulos.
- 167) An explainable AI for winning Spanish domino, con J. Aurentz, A. Martínez.
- 168) A discrete fireworks algorithm for the open capacitated location-routing problem, con H. Zhang, X. Zhou.

Policy reports

- 1) El papel de la estadística oficial en la administración y gestión de datos. INE
- 2) Artificial Intelligence, Data Science and Robotics. Libros Blancos. Desafíos Científicos 2030 del CSIC, vol. 11. Topic Coordinators Sara Degli Esposti & Carles Sierra. CSIC. ISBN: 978-84-00-10758-1

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- 4) **Ríos Insua, D.**, Ríos Insua, S. and Martín. J. (2003). Fundamentos de un sistema de predicción de accidentes laborales, *Mapfre Seguridad*. 1993
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 - 27) **Ríos Insua, D.** and Vila, J. (2017). Cómo las matemáticas detectan comportamientos irracionales. Las matemáticas permiten comprender y predecir situaciones en las que las personas actúan de manera irracional. *El País*, December 15, 2017. https://elpais.com/elpais/2017/11/23/ciencia/1511431560_997861.html
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7. Dissemination videos. It's a Risky Life. @YouTube:

Videos in Spanish:

- 1) “Introducción” (December 23, 2016)

- 2) “Las probabilidades son...” (April 25, 2017)
- 3) “Y tú qué crees...” (May 10, 2017)
- 4) “To Bayes or to Bayes” (June 14, 2017)
- 5) “Pájaro en mano o ciento volando” (August 2, 2017)
- 6) “Los riesgos son...” (November 7, 2017)
- 7) “¿Estás seguro?” (December 27, 2017)
- 8) “Adversarios” (January 30, 2018)

Versions in English:

- 1) “Introduction” (December 23, 2016)
- 2) “Chances are...” (April 25, 2017)
- 3) “And you, what do you believe?” (May 10, 2017)
- 4) “To Bayes or not to Bayes” (June 14, 2017)
- 5) “A bird in the hand is worth two in the bush?” (August 2, 2017)
- 6) “Risks are...” (November 7, 2017)
- 7) “Are you sure?” (December 27, 2017)
- 8) “Adversaries” (January 30, 2018)

Challenges in Spanish:

- 1) “Introducción” (December 30, 2016)
- 2) “Las probabilidades son...” (April 25, 2017)
- 3) “Y tú qué crees...” (May 10, 2017)
- 4) “To Bayes or to Bayes” (June 14, 2017)
- 5) “Pájaro en mano o ciento volando” (August 2, 2017)
- 6) “Los riesgos son...” (November 7, 2017)
- 7) “¿Estás seguro?” (December 27, 2017)
- 8) “Adversarios” (January 30, 2018)

Challenges in English:

- 1) “Introduction” (December 30, 2016)
- 2) “Chances are...” (April 25, 2017)
- 3) “And you, what do you believe?” (May 10, 2017)
- 4) “To Bayes or not to Bayes” (June 14, 2017)
- 5) “A bird in the hand is worth two in the bush?” (August 2, 2017)
- 6) “Risks are...” (November 7, 2017)
- 7) “Are you sure?” (December 27, 2017)

- 8) “Adversaries” (January 30, 2018)

8. FUNDED PROJECTS

As Principal Investigator or Steering Committee Member:

- 1) *Sensitivity Analysis in Discrete Multi-Objective Decision Making.* 5.600 \$. NATO: International Scientific Exchange Programmes. Main Researcher with Simon French. (September 1st, 1991- August 31st, 1993)
- 2) *Robustez Bayesiana: Teoría y Aplicaciones/ Bayesian Robustness: Theory and Applications.* 1.045.000 pesetas. Universidad Politécnica de Madrid/ Polytechnic University of Madrid. (April 10th, 1991 – April 9th, 1992)
- 3) *Cálculos en Análisis de Decisiones Robusto/ Robust Decision Analysis Calculations.* 112.000 pesetas. Ministerio de Educación y Ciencia and British Council. Reference HB93-019. Main Researcher with Les Proll. (1994-1995)
- 4) *Bayesian Robustness in Stochastic Processes.* 7.000 \$. NATO: International Scientific Exchange Programmes. Main Researcher with Fabrizio Ruggeri. (March 1st, 1995 – March 28th, 1997).
- 5) *Implementación del Análisis de Decisiones Robusto.* 2.970.000 pesetas. Comisión Interministerial de Ciencia y Tecnología. CICYT. Interministerial Science and Technology Commission. Reference: TIC-95-0028. (July 1st, 1995 - July 1st, 1998)
- 6) *BAYRES: A Knowledge Based System Forbayesian Repairable Equipments.* 215.000 pesetas. CICYT. Interministerial Science and Technology Commission. Reference: BRITE EURAM. TAP95-1313-E. (May 8th, 1995 - May 9th, 1996)
- 7) *Métodos avanzados de simulación/ Advanced simulation methods.* 640.000 pesetas. CICYT. Interministerial Science and Technology Commission. Reference: TXT96-2075. (November 27th, 1995 - November 27th, 1996)
- 8) *Bayesian Robustness in Stochastic Processes.* 124.000 BEF. NATO. Reference: 950214. Main Researcher with Fabrizio Ruggeri and Mike Wiper. (September 1st, 1997- September 1st, 1999).
- 9) *Problemas de decisión complejos/ Complex decision problems.* 9.430.000 pesetas. Community of Madrid. Refereence: 07T/0009/1997. (January 1st,1998 - December 31st, 1999).
- 10) *Servidor de cálculo científico: equipo multiprocesamiento de memoria compartida / Scientific computing server: shared-memory multiprocessing equipment.* 20.000.000 pesetas. Grant Infraestructura. Infrastructure Support CICYT-CAM. Spanish Ministry of Education and Science and Community of Madrid. Reference: IN97-0040. (December 16th, 1997 - December 17th, 1998).
- 11) *Un sistema inteligente de gestión de embalses/ An intelligent reservoir management system.* 43.633,48 €. MEC. Spanish Ministry of Education and Science. Reference: HID98-0379-C02-01. (September 1st, 1998 – September 1st, 2000).
- 12) *SADERYL: Un sistema de Grant a la toma de decisiones en problemas de rutas de vehículos y localización de servicios/ SADERYL: A decision support system for vehicle routing and service location problems.* 47.119,35 €. MEC. Spanish Ministry of Education and Science. Reference: TIC-2000-1750-C06-04. (December 28th, 2000 - December 27th, 2003)

- 13) Un sistema de optimización – simulación para el diseño de redes de comunicación. An optimization-simulation system for the design of communication networks. 12.092,36 €. CAM. Community of Madrid. (January 1st, 2002 - December 31st, 2002)
- 14) *PRO-ENBIS. An european network for industrial and business statistics.* 10.000 €. European Commision. (2001-2003)
- 15) *Nuevos desarrollos tecnológicos y metodológicos para el negocio electrónico. New technological and methodological developments for e-business.* 5.000 €. URJC. King Juan Carlos University. (January 1st, 2002 - December 31st, 2002)
- 16) *A feasibility study on the application of Bayesian methods of inference for the treatment and analysis of official statistics data.* 24.575 €. EUROSTAT. Grant agreement No: 8221005. (January 1st, 1999 - December 31st, 1999)
- 17) *Towards Electronic Democracy: Internet based complex decision support (TED).* 320.000 €. European Science Foundation. (July 2002 - December 2006)
- 18) Métodos para optimización-simulación de recursos en sistemas de workflow. Investigación y programas S.A. 5.200 €.
- 19) *E-Democracia: Apoyo a la toma de decisiones complejas basadas en Internet / E-Democracy: Supporting complex Internet-based decision making.* 87.500 €. MEC. Spanish Ministry of Education and Science. Reference: TSI2004-06801-C04-01. (December 1st, 2004 - November 30th, 2007)
- 20) RAMses. *Banco Integrado de implementación de fiabilidad, disponibilidad y safety de sistemas/ Integrated systems reliability, availability and safety implementation bank,* with Métodos y Tecnología de Sistemas y Procesos S.L. 72.852 €. MINCOTUR. Spanish Ministry of Industry, Tourism and Trade. Reference PROFIT FIT-340001-2004-3. (January 1st, 2005 - December 31st, 2005)
- 21) *Máster en Conjunto en Teoría de la Decisión en Universidad Nacional 3 de Febrero, Argentina/ Joint Master's Degree in Decision Theory at Universidad Nacional 3 de Febrero, Argentina.* 10.500 € AECID. Official Spanish Development Assistance. Reference: B/2117/04. (January 1st, 2005 - December 31st, 2005)
- 22) *Tecnologías de la Información para la Seguridad y la Defensa/ Information Technologies for Security and Defense.* CESEDEN. Higher Center for National Defense Studies. (2005)
- 23) *E-democracia CM. Conceptos y sistemas de apoyo a la democracia electrónica/ E-democracy CM. Concepts and support systems for e-democracy.* 508.530 €. Community of Madrid. Reference: S0505/TIC-0230. Comunidad de Madrid. (January 1st, 2006 - December 31st, 2009)
- 24) *Análisis Bayesiano de procesos estocásticos: aplicaciones ambientales y tecnológicas/ Bayesian analysis of stochastic processes: environmental and technological applications.* 18.326 €. MECD. Spanish Ministry of Education, Culture and Sports- MEC. Ministry of Education of Brazil. Reference: PHB 2005-0082-PC (July 1st, 2006 - Augost 31st, 2007).
- 25) *Algorithmic Decision Theory.* 400.000 €. European Cooperation in Science and Technology. COST Program. Reference: ICO602. (January 1st, 2006 - December 31st, 2009)
- 26) *Máster en Conjunto en Teoría de la Decisión Aplicada en Universidad Nacional 3 de Febrero, Argentina/ Joint Master's Degree in Applied Decision Theory at Universidad Nacional 3 de Febrero, Argentina.* 16.000 €. AECID. Official Spanish Development Assistance. Reference: B/6939/06. (January 1st, 2007 - December 31st, 2007)

- 27) *Máster Ingeniería de la Decisión en la Universidad Autónoma del Estado de Hidalgo.* México/ *Master's Degree in Decision Engineering at the Universidad Autónoma del Estado de Hidalgo. Mexico.* 23000 €. AECID. Official Spanish Development Assistance. Reference: B/7460/07. (January 1st, 2008 - December 31st, 2008).
- 28) *Instrumentos avanzados de participación electrónica. Advanced e-participation tools.* 12.100 €. MEC. Spanish Ministry of Education and Science. Reference: TSI/2007-66706-C04-01. (October 1st, 2007 – September 30th, 2008).
- 29) *Decisiones colaborativas: Métodos y aplicaciones en contratarrorismo./ Collaborative decisions: Methods and applications in counterterrorism.* 53.240€. MEC. Spanish Ministry of Education and Science. Reference: TIN2008-06796-C04- 01 (January 1st, 2009 - December 31st, 2009).
- 30) *Máster Oficial en Ingeniería de la Decisión en la Universidad Autónoma del Estado de Hidalgo y la Universidad Técnica de Ambato. México. / Official Master's Degree in Decision Engineering at the Universidad Autónoma del Estado de Hidalgo and the Universidad Técnica de Ambato. Mexico.* 23000 € AECID. Official Spanish Development Assistance. Reference: B/016284/08. (January 1st, 2009 - December 31st, 2009).
- 31) *Establecimiento de una Unidad de Consultoría Avanzada en Ingeniería de la Decisión en la Universidad de Tizi Ouzou, Argelia. Establishment of an Advanced Decision Engineering Consulting Unit at the University of Tizi Ouzou, Algeria.* 110.000 €. AECID. Official Spanish Development Assistance. Reference: C/018119/08. (January 1st, 2009 - December 31st, 2009).
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- 34) *RIESGOS-CM. Riesgos, Análisis, Gestión y aplicaciones./ RISK-CM. Risk, Analysis, Management and applications.* 758.540€. Community of Madrid. Reference: S2009/ESP-1685. (January 1st, 2012 - December 31st, 2014).
- 35) *MyUniversity. Decision making for a united higher education.* URJC Grant: 55.271€, (total grant: 162.708€). European Commission. CIP Program. Grant agreement No: 256216. (September 29th, 2010 – March 29th, 2013)
- 36) *Agora.net.* 318.120 €. MICINN. Spanish Ministry of Science and Innovation. Reference: INNPACTO IPT-430000-2010-32 (June 22nd, 2010 –December 31st, 2012)
- 37) *SECONOMICS. Socio-Economics meets Security.* URJC Grant: 156.923 € (Total grant: 3.451.096 €) European Commission. Program: FP7. Grant agreement No: 285223. European main researcher: Fabio Massacci. (February 1st, 2012 - December 31st, 2015).
- 38) *Estrategias para el Progreso Matemático en España./ Strategies for Mathematical Progress in Spain.* 45.000 €. MICINN. Spanish Ministry of Science and Innovation. Reference: MTM2010-12374-E. (July 21st, 2011 - July 20th, 2013)

- 39) *Análisis de Riesgos Adversarios y Aplicaciones/ Adverse Risk Analysis and Applications.* 91.113 €. MICINN. Spanish Ministry of Science and Innovation. Reference: MTM2011-28983-C03-01 (January 1st, 2012 - December 31st, 2014)
- 40) *Acción Preparatoria para una Unidad de Ingeniería de la Decisión en la Universidad 11 de Noviembre de Angola. Preparatory Action for a Decision Engineering Unit at the University November 11th in Angola.* 14.800 €. AECID. Official Spanish Development Assistance. Reference: AP/036138/11. (January 1st, 2011 - December 31st, 2013)
- 41) *eGoveris: Plataforma de Administración Electrónica/ e-Goveris: e-Government Platform.* 121.240 €. MINCOTUR. Spanish Ministry of Industry, Tourism and Trade. Reference: INNPACTO. FIT-350100-2007-177. (January 1st, 2007 - December 31st, 2008)
- 42) *eMercurio: Desarrollo de un Sistema integral de contratación pública/ eMercurio: Development of an Integrated Public Procurement System.* 77.880 €. MINCOTUR. Spanish Ministry of Industry, Tourism and Trade. Reference: INNPACTO. TSI-020100-2008544. (January 1st, 2008 - December 31st, 2009)
- 43) *Content Intelligent.* 269.600 €. MINECO. Spanish Ministry of Economy and Competitiveness. Reference: IPT-2012-0912-430000 (July 17th, 2012- December 31st, 2014).
- 44) *Expert Judgment Network: Bridging the Gap Between Scientific Uncertainty and Evidence-Based Decision Making.* 410.000 €. European Cooperation in Science and Technology. COST Program. Reference: IS1304. (September 23rd, 2014 - September 22nd, 2017).
- 45) *Agreement for strategic aviation safety support.* 300.000 €. Royal Academy of Exact, Physical and Natural Sciences of Spain and Spanish Aviation Safety Agency. (April 29th, 2014 - April 28th, 2016)
- 46) *Adversarial Risk Analysis.* 1.175.000€. AXA Fund Research. (September 1st, 2014- August 31st, 2022).
- 47) *Del Análisis de Riesgos Al Análisis de Riesgos Adversarios : Retos En Seguridad, Protección y Defensa / From Risk Analysis To Adversarial Risk Analysis: Challenges In Security, Safety and Defense.* 93.775 €. MINECO. Spanish Ministry of Economy and Competitiveness. Reference: MTM2014-56949-C3-1-R (January 1st, 2015 - December 31st, 2017).
- 48) *CYBECO: Supporting Cyberinsurance from a Behavioural Choice Perspective.* ICMAT Grant: 251.250 €, Total Grant: 1.983.510 €. European Commission. Program: Horizon 2020: Improve Cyber Security. Grant agreement No 740920. (May 1st, 2017 - April 30th, 2019).
- 49) *SecRating: Plataforma para el cálculo de ratings de ciberseguridad y gestión del ciber riesgo de proveedores/ Platform for calculating cybersecurity ratings and supplier cyber risk management.* 262.452,00 € With LEAP IN VALUE, S.L. MINECO. Spanish Ministry of Economy and Competitiveness. Reference: RTC-2017-6593-7. (January 1st, 2018 - December 31st, 2019).
- 50) *TRUSTONOMY. Building acceptance and trust in autonomous mobility.* ICMAT Grant: 206.500 €, Total Grant: 3.920.000 €. European Commission. Program: Horizon 2020: Smart, Green and Integrated Transport. Grant agreement No 815003. (May 1st, 2019 - July 31st, 2022).
- 51) *Agreement for strategic risk analysis support.* 16.000 €. Royal Academy of Exact, Physical and Natural Sciences of Spain and The Elcano Royal Institute. (May 1st, 2018 - April 30th, 2019)

- 52) *Avances en Gestión de Riesgos para la Seguridad/ Advances in Security Risk Management.* 32.186 €. MICINN. Spanish Ministry of Science, Innovation and Universities. Reference: MTM2017-86875-C3-1-R (January 1st, 2018 - December 31st, 2021).
- 53) *Analisis de capacidades y habilidades demandadas por los empleadores a los egresados universitarios/ Analysis of skills and abilities demanded by employers to university graduates.* 24.930 €. MEC. Spanish Ministry of Education and Science. Reference: EA2007-0073. (May 30th, 2007 - April 30th, 2008)
- 54) Adversarial Machine Learning: Methods, Computations and Applications to Malware, Fake News and Autonomous Vehicles. 100.000 €. BBVA Foundation. (May 1st, 2020 - April 30th, 2022)
- 55) Robust Command and Control under Adversarially Perturbed Data. Acronym: RC2APD. Reference: GRANT N°: 13324227. 58.711,64 \$. European Office of Aerospace Research and Development: (September 1st, 2021 – August 30th, 2023) FA8655-21-1-7042
- 56) Air Force Scientific Office of Research (AFOSR) award FA-9550-21-1-0239 (June 1st, 2021 – May 30th, 2023) (co-PI)

As investigator:

- 1) *Sistema de Ayuda a la Decisión Interactivo y coherente.* DGICYT, PS89-0027. IP: Sixto Ríos Insua. (1990-1992)
- 2) *Verificación de Sistema Expertos.* CICYT PRONTIC 92-0069. IP: Luis Laita. (1991-1992)
- 3) *Aproximación a Nuevas Teorías de la Decisión.* DGICYT. PB 91-0172. IP: Sixto Ríos Insua. (1992-1994)
- 4) *Bayesian Regression in Nonlinear AR, Neural Networks, Wavelets and longitudinal data models.* National Science Foundation. NSF DMS-9494151. IP: Peter Muller. (1994-1996).
- 5) *Analisis Bayesiana robusta dell'affidabilita di sistemi reparabili.* CNR. IP: Fabrizio Ruggeri. (1995).
- 6) *Robust, Minimax and their Applications.* CNR. IP: Fabrizio Ruggeri. (1996-1998).
- 7) *A Model based computerised system for management support to identify remedial strategies for restoring radionuclide contaminated aquatic ecosystems.* European Atomic Energy Community. COST F14P-CT96-0036. IP: Eduardo Gallego. (1996- 1999).
- 9) *IctNeo: Un sistema de gestión de la ictericia en recién nacidos.* FIS 97/0003-002. IP: Manuel Sánchez Luna. (1996- 1998)
- 10) *Bayesian wavelet shrinkage with applications in turbulence.* National Science Foundation. DMS-9626159. IP: Brani Vidakovic. (1996-1999)
- 11) *PLAZA: Un sistema de predicción de reservas hoteleras.* Instituto Balear de Turismo. IP: Nacho Olmeda. (1998-99)
- 12) *Reconocimiento de objetos 3D con técnicas de multirresolución.* CICYT. TIC98-0272-C02-01. IP: Luis Pastor. (1998-2001)
- 13) *Contribuciones al desarrollo de sistemas de decisión inteligentes.* CAM. 07T/0027/2000. IP: Sixto Ríos Insua. (2000-2002)

- 14) *Metodi bayesiani per un supporto dinamico nella formulazione di offerte nel settore industriali.* MURST. IP: Fabrizio Ruggeri.
- 15) *Movilidad virtual en posgrado: internacionalización de la enseñanza on-line.* URJC. IP: Javier Cano. (2011-2010)
- 16) *EDUKALIBRE.* Socrates-Minerva. IP: Jesus Barahona. (2003- 2005)
- 17) *Red Temática de Decisiones Multicriterio.* BFM. 2002-11282-E. IP: Rafael Caballero (2002-2004)
- 18) *e-Strategia.* MECD. IP: Josep Maria Duart (2004-2005)
- 19) *Gobierno electrónico: toma de decisiones complejas basadas en Internet: e-democracia y e-cognocracia.* Gobierno de Aragón PM052. IP: Jose Maria Moreno (2004-2006).
- 20) *e-PRODAT.* INTERREG-III. IP: Francisco Carmona (2005-2006)
- 23) *Grant a la toma de decisiones complejas basado en internet.* Universidad Rey Juan Carlos. IP: Raquel Montes. (2004-2005)
- 24) *Optimización no convexa con información explícita de segundo orden.* Universidad Rey Juan Carlos. IP: Javier Moguerza. (2004-2005)
- 25) *Buenas Prácticas interregionales en protección de datos en las administraciones públicas.* Ministerio de Economía y Hacienda. IP: Fernández Vicente, Cano Cancela. (2005-2007).
- 26) *Planificación y estimación en tareas con acomodación en sistemas de fabricación robotizados flexibles.* URJC-CM-2006-CET-0371. IP: Ernesto Staffetti. (2007).
- 27) *E-participación, securización y democratización del conocimiento.* Gobierno de Aragón. PM034/2007. IP: Jose María Moreno. (2007-2009).
- 28) *Gobierno Electrónico, Participación Ciudadana y Democratización del Conocimiento. ¿Debatir e Informar o Decidir y Formar?* Gobierno de Aragón. PI-127/2009. IP: José María Moreno. (2009-2011).
- 29) *ATLANTIDA: Métodos de optimización en gestión del transporte aeréo.* CENIT/GMV. IP: Antonio Alonso Ayuso. (2008-2010).
- 30) *ENRIMA: energy efficiency and risk management in public buildings.* FP7-2010-NMP-ENV-ENERGY-ICT-EeB. IP: L. Ekemberg and Javier Moguerza.
- 31) *HAUS: Hogar digital y contenidos Audiovisuales adaptados a los UsuaRíos.* MINECO. IPT-2011-1049-430000. IP: Javier Moguerza. (2011-2013).
- 32) *Democracy4all: Democracy4All, sistema de potenciación de la democracia para países menos desarrollados o en vías de desarrollo.* MINECO. IPT-2011-0869-430000. IP: Javier Moguerza. (2011-2013).
- 33) *EDUCALAB, Laboratorio de Semantic Behavioral Targeting.* MINECO. IPT-2011-1071-430000. IP: Javier Moguerza. (2011-2013).
- 34) *Corporate Community.* MINECO. IPT-2011-0871-430000. IP: Javier Moguerza. (2011-2013).
- 35) *RED ATICA. Red Temática Española para el Avance y Transferencia de la Inteligencia Computacional Aplicada.* Responsable del grupo GECD-URJC MINECO.
- 36) *A new paradigm for stochastic differential games.* MINNECO MTM2015-72907-EXP. IP: Antonio Gómez- Corral. (2017-2019).

- 37) *Stochastic Differential Games: Breaking Fifty Years of the Paradigm*. MINECO. Spanish Ministry of Economy and Competitiveness. Reference: MTM2015-72907-EXP. IP: Antonio Gómez- Corral. (May 1st, 2017 - April 30th, 2019)
- 38) *Severo Ochoa Excellence Award*. Steering Committee. (2016-2019).
- 39) *Severo Ochoa Excellence Award*. (2020-2023).

As Vicerrector:

- 1) *Infraestructura red para la comunidad investigadora URJC*, UNJC-R001. 213.750 €. Support FEDER for the realization of scientific infrastructure projects 2003-2004.
- 2) *Red inalámbrica comunidad investigadora de la URJC*, UNJC-R002. 68.812,50 €. Support FEDER for the realization of scientific infrastructure projects 2003-2004.
- 3) *Implatación y complección de la red inalámbrica para la comunidad investigadora URJC*, UNJC5-36-021. 208.000 €. Support FEDER for the realization of scientific infrastructure projects 2005-2007.
- 4) *Apoyo a despliegue de red WiMax*, 60.000 €. Grant Red.es. 2006-2007.

9. RESEARCH CONTRACTS WITH COMPANIES

As principal investigator:

- 1) *Una metodología de evaluación de la calidad/ A quality assessment methodology*. Coopers & Lybrand. 3.870.000 pesetas. (July 29th, 1996 to September 30th, 1996)
- 2) *Una nueva metodología de planificación de recursos hidroeléctricos/ A new hydroelectric resource planning methodology*. Iberdrola. 2.000.000 pesetas. (September 1st, 1995 to August 31st, 1996).
- 3) *Evaluación de la calidad de servicio del BBV/ Evaluation of BBV's service quality*. Coopers & Lybrand. 2.600.000 pesetas. (October 4th, 1998 to December 5th, 1998)
- 4) *Un modelo de predicción de costes/ A cost prediction model*. Research Center Unión Fenosa. 3.500.000 pesetas. (January 15th, 1999 to October 31st, 1999)
- 5) *Un sistema de simulación y optimización de workflow/ A workflow simulation and optimization system*. Investigación y Programas S.A. 3.600.000 pesetas. (December 27th, 2000 to January 27th, 2002)
- 6) *Capital semilla para financiación de laboratorio de ingeniería de la decisión/ Seed capital for financing of a decision engineering laboratory*. Foundation DMR Consulting. 60.000 €. (May 5th, 2003 to May 5th, 2004).
- 7) *Modelos para la disposición de empresas en la Comunidad de Madrid/ Models for the layout of companies in the Community of Madrid*. Instituto de Estadística de Madrid, 60.000 €. (January 13th, 2002 to January 12th, 2003)
- 8) *Metodología de seguridad operacional/ Operational safety methodology*. Real Academia de Ciencias Exactas, Físicas y Naturales de España – Agencia Española de Seguridad Aérea. 340.000 €. (April 29th, 2014 to April 28th, 2016).
- 9) *Evaluación de ciber riesgos de proveedores/ Supplier cyber risk assessment*. LEAP IN VALUE, SL. 31.127,25 €. (January 31st, 2017 to July 31st, 2017)

- 10) *Modelos y métodos predictivos de monitorización de redes/ Predictive network monitoring models and methods.* SIEM, Software & Security Services, SL. 14.520 €. (December 28th, 2016 to April 27th, 2017)
- 11) *Plataforma innovadora de Marketing de Proximidad y Pagos en el Punto de Venta, basada en tecnología Bluetooth LE, que se comunica con el usuario de forma personalizada, en tiempo real, en el momento justo de la decisión de compra y en sitio adecuado/ Innovative Proximity Marketing and Payment Platform at the Point of Sale, based on Bluetooth LE technology.* SIEM, Software & Security Services, SL. 30.000 €. (October 23th, 2018 to December 31st, 2018)
- 12) *Its a Risky Life.* AXA Outreach Project. 22.800 € (December 23th, 2016 to September 30th, 2017).
- 13) *Recomendador de Contenidos Basado en el Perfil Digital de un Usuario/ Content Recommender Based on a User's Digital Profile.* XEERPA MARKETING SOLUTIONS, SL. (September 29 th, 2019 to September 28 th, 2021)
- 14) *Modelización del riesgo unitario y acumulación de riesgo derivado de la ciberseguridad para el desarrollo de la versión 4 del producto DeRISK.* DENEXUS TECH, S.L. (October 24th, 2021 to 23 February 23rd, 2022)
- 15) *Utilización de técnicas de análisis de riesgos adversarios para desarrollar una aproximación a problemas competitivos de negocio con foco en la situación; estudio de movimientos estratégicos del sector bancario español.* EVERIS Spain SLU. 60.000 €. (March 22th, 2021 to October 21st, 2021). IP: Roi Naveiro Flores.

As investigator:

- 1) *Juicios de Expertos en Prevención de Accidentes/ Expert Judgments in Accident Prevention.* Fundación MAPFRE. IP: Sixto Ríos Insua. (1991)
- 2) *Validación de las axiomáticas de la Teoría de la Decisión. / Validation of Decision Theory Axiomatics.* Fundación BBV. IP: Sixto Ríos. (1992-1993)
- 3) Detección de fallos en redes/ Network fault detection. Motorola. IP: Luis López. (2005)
- 4) *Herramientas software para el desarrollo y depuración de problemas de redes de telefonía móvil/ Software tools for the development and debugging of cell phone network problems.* IP: Luis López. (2005-2006)
- 5) *Sistemas de decisión para diagnóstico de problemas de red/ Decision systems for network problem diagnosis.* IP: Luis López. (2004-2005)

10. COMMUNICATIONS IN CONGRESSES

Invited or supported

1. VIII th International Conference in Multiple-criteria decision-making (MCDM). *Partial Information and Sensitivity Analysis in Multiobjective Decision Making.* Manchester Business School, Manchester, UK, August 21-26, 1988. Simon French and David Ríos Insua (invited).
2. The Fifth International Conference on the Foundations and Applications of Utility, Risk and Decision Theory. *On the foundations of decision making under partial information,* Duke University, Durham, NC, USA, Jun 9-13, 1990. David Ríos Insua (invited).

3. AMPOD'91: Applied mathematical Programming and Modelling. *Mathematical Programming and the Sensitivity of Multicriteria Decisions*, Brunel University, London, UK, January 14-16, 1991. David Ríos Insua (invited), L. Proll and Sahli.
4. Bayesian Statistics 4. Fourth Valencia International Meeting of Bayesian Statistics. *On the foundations of decision making under partial information: towards the continuous case*, Peniscola, Valencia, Spain, April 15-20, 1991. David Ríos Insua (invited).
5. Workshop on Bayesian Statistics in Sciences and Technology: Case Studies. *The Operation of Kariba Lake*, Carnegie Mellon University, Pittsburgh, PA, USA, 29 September 29 – October 1, 1991. David Ríos Insua (invited)
6. IMSIBAC 4. 4th International Meeting of Statistics in The Basque Country. *Ambiguity, imprecision and sensitivity in Decision Theory*, País Vasco University, San Sebastian, Spain, August 3-7, 1992. David Ríos Insua (invited)
7. IMSIBAC 4. 4th International Meeting of Statistics in The Basque Country. *Forecasting industrial accidents: a Bayesian Analysis*, País Vasco University, San Sebastian, Spain, August 3-7, 1992. David Ríos Insua (invited) and Sixto Ríos
8. Decision Making: Towards 21 century Congress. *The foundations of robust decision making*, Real Academia de Ciencias Exactas, Físicas y Naturales, Madrid, June 2-5, 1993. David Ríos Insua (invited) and Jacinto Martín.
9. Decision Making: Towards 21 century Congress. *Experiments in robust decision making*, Real Academia de Ciencias Exactas, Físicas y Naturales, Madrid, June 2-5, 1993. David Ríos Insua (invited), Sixto Ríos and Jacinto G.Pachón
11. 8EYSM. 8th European Young Statisticians Meeting. *The foundations of robust statistics*, Palanga, Lithuania, September 11-15, 1993. David Ríos Insua (invited).
12. EURO XIII/OR36. 13th European Conference on Operational Research. *Local sensitivity analysis in Decision analysis*, The University of Strathclyde, Glasgow, UK, July 19-22, 1994. David Ríos Insua (invited) and Jacinto Martín.
13. EURO XIII/OR36. 13th European Conference on Operational Research. *An alternative framework for sensitivity analysis in MODM*, The University of Strathclyde, Glasgow, UK, July 19-22, 1994. David Ríos Insua (invited), LG Proll and A. Salhi.
14. 2nd Workshop on Bayesian Robustness. *Local sensitivity analysis in Bayesian Decision Theory*, Rimini, Emilia-Romaña, May 22-25, 1995. David Ríos Insua (invited) and Jacinto Martín.
15. International Conference in honor of Professor Jacques Bernier. Statistical and Bayesian Methods in Hydrological Sciences. *Recent developments in Bayesian Inference with applications to hydrology*, UNESCO, Paris, France, September 11-13, 1995. James Berger and David Ríos Insua (invited).
16. 156th Joint Statistical Meeting. American Statistical Association. *Checking dominance under some classes of loss functions*, Chicago, IL, USA, August 4-8, 1996. David Ríos Insua (invited), Fabrizio Ruggeri and Jacinto Martín.
17. INFORMS 96, International Business Meeting. *Approximating Nondominated Sets in Continuous Problems*. Atlanta, GA, USA, November 3-6, 1996. David Ríos Insua (invited), Concepción Bielza, Michel Müller and Jacinto Martín.

18. Sixth International Workshop on Artificial Intelligence and Statistics. *Wavelet based random densities with applications*. Fort Lauderdale, Florida, USA, January 4-7, 1997. David Ríos Insua (invited), and Brani Vidakovic.
19. Workshop on Model Selection. *Bayesian Model Selection for M/G/1 Queues*. Cagliari, Italy, June 13-15, 1997. Fabrizio Ruggeri, Michel Wiper and David Ríos Insua (invited).
20. EURO XV INFORMS XXXIV Joint International Conference. *Random Densities and Wavelets*, Barcelona, Spain, July 14-17, 1997. David Ríos Insua (invited), and Brani Vidakovic.
21. Workshop on Decision Analysis Applications. *Intelligent Decision Support in Reservoir Operations*, Real Academia Ciencias Exáctas, Físicas y Naturales, Madrid, Spain, July 11-12, 1997. David Ríos Insua (invited), Concepción Bielza and Jacinto Martín.
22. EURO XV INFORMS XXXIV Joint International Conference. *Markov chain monte carlo methods for project management under uncertainty and resource constraints*, Barcelona, Spain, July 14-17, 1997. David Ríos Insua (invited), Miguel Angel Virto and Jacinto Martín.
23. SAMO'98. Second international symposium on Sensitivity analysis of model output. *Bayesian Sensitivity Analysis: a review*. Ca'Dolfin, Ispra, Italy, April 19-22, 1998. David Ríos Insua (invited), Fabrizio Ruggeri and Jacinto Martín.
24. Bayesian Statistics 6. Ninth Valencia International Meeting of Bayesian Statistics. *Issues in Service Quality Models*, Las Fuentes, Alcossebre, Spain, Arminda Moreno and David Ríos Insua (invited).
25. HSSS-SPRUCE Workshop on Complex Models and Methods for Environmental Problemas. *Bayesian methods in reservoir operations*, Derbyshire, UK, May 3-7, 1999. David Ríos Insua (invited).
26. ISBA 2000. Bayesian Statistics in Public Policy and Goverment World Meeting. *Institutional evaluation: An application of Bayesianan Ordinal Regression*, Hersonissos, Heraklion, Crete, May 28 – June 1, 2000. Arminda Moreno and David Ríos Insua (invited).
27. ISBA 2000. Bayesian Statistics in Public Policy and Goverment World Meeting. *PLAZA. A system for tourism management*, Hersonissos, Heraklion, Crete, May 28 – June 1, 2000. Eugenio Fernández, Jose Miguel Marín, David Ríos Insua (invited) and I. Olvera.
28. ISBA 2000. Bayesian Statistics in Public Policy and Goverment World Meeting. *Bayesian Analysis in Official Statistics: EUROSTAT, The BayOff project*, Hersonissos, Heraklion, Crete, May 28 – June 1, 2000. J. Dellaportas, David Ríos Insua (invited) and Jose Luis Cervera.
29. Second Workshop on Bayesian Inference in Stochastic Processes. *Some forecasting models for sow farm management*, Villa Monastero, Varenna (LC), Italy, May 31 - June 2, 2001. Miguel Angel Marín, David Ríos Insua (invited) and Lluis Pla.
30. CMP'04: Multiple Participant Decision Making. *Negotiating over continuous influence diagrams*. Prague, Czech Republic, May 12-14, 2004. David Ríos Insua (invited), Javier Moguerza and Jacinto Martín.
31. Sixth International Workshop on Artificial Intelligence and Statistics. *Markov chain Monte Carlo methods for decision analysis*. Fort Lauderdale, Florida, USA, January 4-7, 1997. Michel Müller, David Ríos Insua (invited), and Concepción Bielza.
32. COBAL 2. Second Latin American Congress on Bayesian Statistics. *Bayesian methods in project management*, San José del Cabo, México, February 6-10, 2005. David Ríos Insua (invited), Jesus Palomo and Fabrizio Ruggeri.

33. ISBA Regional Meeting 2013 and International Workshop/Conference on Bayesian Theory and Applications 2013. *Bayesian Uncertainty Quantification*, Varanasi, India, January 6-10, 2013. David Ríos Insua (invited).
34. GDN 2005. Group Decision and Negotiation Meeting. *Supporting negotiation for participatory budgets*, Vienna, July 10-13, 2005. David Ríos Insua (invited), Jesus Ríos, Eugenio Fernández, J. Rivero.
35. Towards Electronic Democracy: Internet-based Complex Decision Support (TED). HCI issues in e- democracy Workshop. *An interactive graphical method for multiple criteria group decision support over the web*. Manchester, UK, November 9-11, 2005. David Ríos Insua (invited) and Roman Efremov.
36. JSM 2007. Joint Statistical Meeting. *Bayesian methods in bidding processes*. Minneapolis, USA, July 30, 2007. David Ríos Insua (invited), and Jesus Palomo.
37. ICSMRA 2007. International Conference on Statistical Methods for Risk Analisys. *Negotiation methods for adversarial risk analysis*. Lisboa, Portugal, August 30-31, 2007. David Ríos Insua (invited), and Jesus Ríos.
38. Risk Analysis, Extreme Events and Decision Theory. *Opening Risk Analysis Workshop*. SAMSI, Durham, NC, USA, September 16-19, 2007. David Ríos Insua (invited)
39. EC Forum on the Future of Democracy, e-Democracy: who dares?. *e-participation at local level*. Madrid, Spain, October 6, 2008. David Ríos Insua (invited)
40. ISBIS-2008. International Symposium on Business and Industrial Statistics. *Bayesian Reliability Analysis for Hardware/Software Systems*. Prague, Czech Republic, July 4-6, 2008. David Ríos Insua (invited) and Javier Cano.
41. GDN 2008. Group Decision and Negotiation Meeting. *Decision Support for Participatory Budgets*. Coimbra, Portugal, June 17-20, 2008. David Ríos Insua (invited), and Jesus Ríos.
42. ESOF2008. Decision analysis for a better and safer world. An Interdisciplnary Early Stage Researcher Workshop in relation with ESF-COST IC-060. Barcelona, Spain, July 18-22, 2008. David Ríos Insua (invited).
43. DIMACS 2010. Workshop on Evidence-based Policy Making. *Evidence based policy making: Some experiences from water management problems*. LAMSADE, University Paris-Dauphine, Paris, France, December 2-3, 2010. David Ríos Insua (Invited), Angel Udiás, Javier Cano, Kiombo Jean Marie, Hocine Fellag.
44. GDRR 2011. Second Symposium on Games and Decisions in Reliability and Risk. *Tutorial Decision Analysis*. Belgirate (VB), Lake Maggiore, Italy, May, 19-21, 2011. David Ríos Insua (invited).
45. Cost IC0602 International Doctoral School. Applying Decision Analysis to Real Problems. *Handling uncertainty: Probabilities. Sensitivity analysys and scenarios*. University of Manchester, UK, April 10-13, 2011. David Ríos Insua (invited).
46. ISI 2011. 58th World Statistics Congress of the International Statistical Institute. *Adversarial Risk Analysis: The Somali Pirates Case*. Dublin, Ireland, 21-26 August, 2011. (esus Ríos, David Ríos Insua (invited) and Juan Carlos Sevillano.
47. MCDM 2011. The 21st International Conference on Multiple Criteria Decision Making. *Multicriteria Equitable Water Distribution Network*. University of Jyväskylä, Finland, June 13–17, 2011. Angel Udiás, Javier Cano, David Ríos Insua (invited) and Hocine Fellag

48. MCDM 2011. The 21st International Conference on Multiple Criteria Decision Making. *Decision Making for a Multiobjective Water Management Problem: the Kwanza River Case Study*. University of Jyväskylä, Finland, June 13–17, 2011. Javier Cano, David Ríos Insua (invited) and Kiombo Jean Marie)
49. DIMACS 2011. Workshop on Smart Cities. *ARA resource allocation models for urban security*. LAMSADE, University Paris-Dauphine, Paris, France, September 26-27, 2011. David Ríos Insua (invited).
50. ISBA Regional Meeting and International Workshop/Conference on Bayesian Theory and Applications. *Risk Analysis for Safety and Security in Air Transportation*. Banaras Hindu University, Varanasi, India, January 6-10, 2013. David Ríos Insua (invited).
51. IBIT 2013. XIV Iberian-Italian Congress of Financial and Actuarial Mathematics. *An overview on adversarial risk analysis, with applications to auctions*. Royal Spanish Academy of Sciences (Real Academia de Ciencias Exactas, Físicas y Naturales), Madrid, Spain, June 24-26, 2013. David Banks, David Ríos Insua (invited) and Jesus Ríos.
52. GDRR 2013: Third Symposium on Games and Decisions in Reliability and Risk. Adversarial risk analysis for designing robot societies. Kinsale, County Cork, Ireland, July 8-10, 2013. David Ríos Insua (invited).
53. ECML Workshop 2013. The European Conference on Machine Learning. *Designing Societies of Robots*. Prague, September 23-27, 2013. David Ríos Insua (invited).
54. Kick Off Conference. IS1304. Experts in Uncertainty. Expert Judgment Network: Bridging the Gap Between Scientific Uncertainty and Evidence-Based Decision Making. *Some problems in uncertainty modelling and foundational issues*. University of Strathclyde, Glasgow, UK, April 2-4, 2014. David Ríos Insua (invited).
55. BISP 9. 9th Workshop on Bayesian Inference in Stochastic Processes. *Supporting risk management for aviation safety at state level*. Yeditepe University, Istanbul, Turkey, June 14 - 16, 2015. David Ríos Insua (invited).
56. GDRR 2015. 4th Symposium on Games and Decisions in Reliability and Risk. *Adversarial Risk Analysis for Biagent Influence Diagrams*. Yeditepe University, Istanbul, Turkey, June 17 - 19, 2015. David Ríos Insua (invited).
57. ISBIS 2016 Meeting. International Symposium on Business and Industrial Statistics. *A Framework for Risk Analysis in Aviation Safety*. Universitat Politècnica de Catalunya, Barcelona, Spain, June 8-10, 2016. David Ríos Insua (plenary)
58. GDRR 2016. Games and Decisions in Reliability and Risk Workshop. *Intro to Game Theory (in Risk and Reliability Analysis)*. SAMSI, Durham, NC, USA, May 16-20, 2016. David Ríos Insua (invited).
59. Workshop Adversarial Risk Analysis for Critical Infrastructure. *ARA: some applications*. Lorentz Center, Leiden, The Netherlands, May 23-27, 2016. David Ríos Insua (invited).
60. VIII Jornadas de Usuarios de R!. *RIMAS: a framework and architecture in R for aviation safety risk management*. Universidad de Castilla La Mancha, Albacete, Spain, November 17-18, 2016. David Ríos Insua (plenary).
61. Segurinfo España 2016. *Machine learning methods for adversarial risk analysis*. Barcelona, Spain, November 2016. David Ríos Insua (invited).

62. E-Democracy Summer School, Workshop Decision Making. *Searching for light in the participation forest*. International Centre for Mathematics and Computer Science, Toulouse, France. April 24-26, 2017. David Ríos Insua (invited).
63. MMIPIS 2017. Modern Methods in Insurance Pricing and Industrial Statistics Conference 2017. *An Adversarial Risk Analysis Framework for Cybersecurity*. Bu Ali Sina University, Hamedan, Iran, September 3-5, 2017. David Ríos Insua (invited).
64. ENBIS 2017. The 17th Annual Conference of the European Network for Business and Industrial Statistics. *An ARA Approach to Cybersecurity Risk Management*. Naples, Italy, September 9-14, 2017. David Ríos Insua (invited, Dani G. Rasines and Jose A. Rubio).
65. ENBIS 2017. The 17th Annual Conference of the European Network for Business and Industrial Statistics. *Adversarial Hypothesis Testing*. Naples, Italy, September 9-14, 2017. Fabrizio Rugeri, David Ríos Insua, (invited), Rafik Soyer and Jorge González Esteban.
66. ICANN 2017. The 26th International Conference on Artificial Neural Networks. *Adversarial machine learning: An adversarial risk analysis approach*. Alghero, Sardinia, Italy, September 11 – 14, 2017. David Ríos Insua (plenary).
67. BIDAS 3. Third Bilbao Data Science Workshop. (*Almost everything about*) *Adversarial machine learning*. Bilbao, November 8-9, 2018. David Ríos Insua (invited).
68. Workshop Mathematics for Smart Security: Challenges and Opportunities. *Aviation Safety Risk Management*. Lisbon, Portugal, October 19, 2018. David Ríos Insua (invited).
69. Decision support issues in automated driving systems. 4th Sys Engineering. November 2020 USST. David Ríos Insua (invited).
70. From Risk Analysis To Adversarial Risk Analysis. University of Shanghai for Science & Technology Business School. Fall, 2020. <https://bs.usst.edu.cn/Eng/2020/1125/c11213a234747/page.htm>. David Ríos Insua (invited).
71. Workshop Autonomos Vehicles, Social and Ethical Acceptance - Present and Futures Scenarios. *Ethical and Operational Preferences in ADS*. PIARC, Italy (Virtual). May 28, 2021. David Ríos Insua (invited).
72. ISBA 2021. World Meeting of the International Society for Bayesian Analysis 2021. *Bayesian methods for adversarial machine learning*. Virtual. June 28- July 2, 2021. David Ríos Insua (invited).
73. ISI 2021. 63rd ISI World Statistics Congress 2021. *Statistical challenges in automated driving systems*. Virtual, July 11-16, 2021. David Ríos Insua. (ASMBI session)
74. SAMSI closing symposium. *From adversarial risk analysis to adversarial machine learning*. North Carolina USA. August 21, 2021. David Ríos Insua (invited).
75. New Bridges between Mathematics and Data Science. *Adversarial learning*. Valladolid, Spain, November 8-12, 2021. David Ríos Insua (invited).
76. The Security of Machine Learning, *Sociallly Responsible Algorithms* 2022, Canberra (plenary)
77. Bayesian Robustness: Now and Then, *Bruno 70+1*, Milano (invited)

Ordinary

78. An interactive approach for solving multiobjective optimization problems in discrete sets, Benidorm (Alicante), XVII Reunión SEIO, 4-8 Abril 1988, SEIO (n)
79. Modelling Imprecision, Bruselas, Workshop on Modelling and Aggregation of Imprecise Opinions, 12-13 Enero 1989, EIASM (i)
80. Imprecision in Probabilities, Edimburgo, Forum on Expert Systems and Statistics, Edimburgo 10-11 Julio 1989, RSS (i)
81. SENSATO: a system for sensitivity analysis in multi-objective decision making, Viena, OR'90, 28-31 Agosto, 1990, U. Viena (i) (con French, Salhi, Proll, Alvarez)
82. S
83. On adjacent potential optimality, Segovia, XIX Reunión SEIO, 1991, SEIO (n)
84. The implementation of a framework for sensitivity analysis in multi-objective decision analysis, Segovia, XIX Reunion SEIO, 1991, SEIO (n) (con French, Proll, Sahli, Alvarez)
85. The Operation of Kariba Lake: A Bayesian approach, Lisboa, SPRUCE, 7-11 Abr 1992, U. Lisboa y Sheild (i)
86. Robustness issues with imprecise beliefs and preferences, Milano, Workshop on Bayesian Robustness, 17-20 May 1992, CNR IAMI (i)
87. On the foundations of decision making under partial information: the continuous case, The Sixth International Conference on the Foundations and Applications of Utility, Risk and Decision Theory: FUR VI, ENS Cachan (i) Paris 15-18 Junio 1992,
88. Teoría de la Decisión robusta: Fundamentos, Cáceres, XX Reunión SEIO, 26-30 September 1992, SEIO (n) (con J. Martin)
89. Teoría de la Decisión robusta: Algoritmos, Cáceres, XX Reunión SEIO, 26-30 September 1992, SEIO (n) (con J. Martin)
90. Un sistema de predicción de accidentes, Cáceres, XX Reunión SEIO, 26-30 September 1992, SEIO (n) (con S. Ríos Insua)
91. A parallel implementation of a framework for sensitivity analysis in multicriteria decision making, An Adversarial Risk Analysis Approach, 6-8 Enero 1993, MPS (i) (con Proll, Salhi)
92. Un heuristico para la resolución de problemas con aplicaciones a la gestión de embalses". Sevilla, SEIO XXII, 14-17 Noviembre 1995, 559-560. (con Bielza) (n)
93. The operation of Kariba Lake, Decisión Making: towards The 21st Century. Madrid, Junio 1993, Real Academia de Ciencias (i) (con K. Salewicz)
94. Dominancia en diagramas de influencia, SEIO XXI, Calella, 18- 21 Abril 1994 (n) (con Bielza, S. Ríos Insua)
95. Sensibilidad local en Teoría de la Decisión, SEIO XXI, Calella, 18-21 Abril 1994 (n) (con Martin)
96. Comprobación experimental de la teoría de la decisión robusta, SEIO XXI, Calella, 18-21 Abril 1994 (n) (con S. Ríos Insua, S. Ríos)
97. Local sensitivity in Bayesian Decision Theory, Alicante, Bayesian Statistics 5, 4-9 Junio 1994, Gen. Val. (i) (con Martin)
98. Influence Diagrams under Partial Information, Alicante, Bayesian Statistics 5, 4-9 Junio 1994, Gen. Val. (i) (Con Bielza y Ríos-Insua)

99. Experiments in robust decision making, Oslo, The Seventh International Conference on the Foundations and Applications of Utility, Ris an Decision Theory: FUR VII 7, 30-3 Julio 1994, NSM (i) (con Ríos y Ríos Insua)
100. Métodos bayesianos robustos en predicción, Granada, Workshop sobre predicción dinámica, 30-31 Abril, U. Granada. (con Ríos Insua, Martín, Bielza) (n)
101. Checking dominance for several classes of priors, Rimini, BIPS 2. 2nd Workshop on Bayesian Robustness, 22-25 May 1995, CNR. (con Martin) (n)
102. Sensitivity analysis in decision analysis, Ispra, Symposium on theory and applications of sensitivity analysis of model output in computer simulation. SAMO 95, 21-25 September 1995, JERC. (con French, Martin, Proll, Salhi) (n)
103. Una metodología de gestión de embalses, Vigo, II Congreso Gallego de Estadística e IO. (con Bielza), 9-11 Noviembre 1995, 49-62. (n)
104. Toma de decisiones con información parcial en preferencias y creencias, Sevilla, SEIO XXII, 14-17 Noviembre 1995, 559-560. (con Martín) (n)
105. A method for multiobjective stochastic reservoir operations, MOPGP 96, Torremolinos, 15-18 May 1996, 41. (n)
106. Optimal design by preposterior simulation on an augmented probability model, Highly Structured Stochastic Systems, European Science Foundation. (con Bielza, Clyde, Parmigiani) 19-24 May 1996, Rebild, Dinamarca, 109-111. (n)
107. Ranking countermeasures for radionuclide contaminated aquatic ecosystems: The MOIRA project. International Workshop Decision Anbalisys Appciations. RAC. 1997 Madrid
108. Posterior simulation in feed forward neural network models, Computational Statistics 12th Symposium: COMPSTAT'96 Barcelona, 28-31 Agosto 96. (con Muller) (n)
109. Markov chain MC methods in decision analysis, 6th Workshop on Artificial Intelligence and Statistics, Florida, 6-10 Enero 97. (con Muller y Bielza) (int)
110. Managing large reservoirs with BayRes, Practical Bayesian Statistics 3, Nottingham, Julio 97. (con Bielza y Martin) (i)
111. A Bayesian quality service model, Practical Bayesian Statistics 3, Nottingham, Julio 97. (con Martin y Moreno) (i)
112. Multiparametric sensitivity analysis in the MOIRA System, Symposium on theory and applications of sensitivity analysis of model output in computer simulation. SAMO'98, Venecia, Abril 98.
113. Multiattribute analysis in the MOIRA System", EURO XVI. 16th European Conference on Operational Research. Bruselas. Julio 1998
114. Multiattribute Decision Analysis to rank intervention strategies in contaminated aquatic ecosystems, Int. Conf. Math. Ecology, Alcalá, September 98.
115. Métodos de simulación en procesos de decisión semimarkovianos, XXIV Congreso Nacional de Estadística e Investigación Operativa. SXXIV SEIO (con Virto y Martín), Almería, Octubre 98.
116. Decision analysis for ranking countermeasures in contaminated aquatic ecosystems, XXIV Congreso SEIO, Almería, Octubre 98.

117. A Bayesian Service Quality Model, Computational Statistics 13th Symposium: COMPSTAT 98 , Bristol, Agosto 98 (con Moreno).
118. Bayesian Analysis of Neural Networks for Time Series Analysis, 18th International Symposium on Forecasting, Edimburgo, Junio 98.
119. A cybernetic system describing customer satisfaction, Cybernetics And Systems '99, February 1999, Las Palmas.
120. Bayesian analysis of neural networks for time series, HSSS-2 Conference, Pavia, September 99.
121. Modelos dinámicos lineales para predicciones turísticas, IX Congreso Nacional "Turismo y Tecnologías de la Información y las Comunicaciones", TURITEC 2010. (con Fernández, Marín y Olmeda) Alcalá de Henares, September 2000.
122. Some aspects of industrial accident forecasting, European Safety and Reliability Conference. ESREL 2001: "towards a safer world". (con Martín, Ríos y Ruggeri) Torino, September 2001.
123. Algunos modelos de predicción de la estructura de población de granjas de cerdos, Predicción Dinámica IV, September 2001, Granada.
124. Some models for Down's syndrome detection, Workshop on Case Studies in Bayesian Statistics, (copn Marin y Montes) Piitsburg. September 2001.
125. Modelos para calidad de servicio en turismo, TuriTec 2001turismo y tecnologías de la información y las Comunicaciones. (con Olmeda, Fernández y Moreno). Octubre 2000.
126. Métodos bayesianos en estadística oficial: el Proyecto Bayoff. XXVI Congreso Nacional de Estadística e Investigación Operativa. SEIO 2001(con Cervera Ferri, Dellaportas, Marín Diazaraque, Muruzábal, Muñoz). Ubeda, Noviembre 2001.
127. Modelos asimétricos para subastas selladas del primer precio. XXVI Congreso Nacional de Estadística e Investigación Operativa. SEIO 2001(con Palomo, Ruggeri) Un modelo para presentación de subastas, Ubeda Noviembre 2001
128. Decision support for reservoir management, Conferencia Internacional de Estadística y Medio Ambiente, Universidad de Cádiz, Noviembre 2001.
129. Optimal release time for two software models, Jornadas de Apoyo a la Decisión en Ingeniería del Software: ADIS 01, Almagro, Noviembre 2001.
130. Modelos de cribado para el sindrome de Down. XXVI Congreso Nacional de Estadística e Investigación Operativa. SEIO 2001(con Marín Diazaraque, Montes, Trescasa, Puerta) Un modelo para presentación de subastas, Ubeda Noviembre 2001
131. A novel approach for stochastic dynamic programming, Maintenance Management and Optimisation. 22nd ESReDA Seminar, (con Moreno, Virto) Abril 2002, Madrid.
132. Bayesian Decision Analysis in reservoir management, International Congress on Environmental Modelling and Software. IEMS 2002, Lugano, Junio 2002. (con Palomo, Salewicz)
133. Recent developments in bayesian inference with applications in hydrology, Mathematics and the Environment, Académie des sciences de l'Institut de France y Real Academia de Ciencias. May 2002, Paris
134. Bayesian Neural Networks for Time Series Analisys, Bayesian Statistics 7, Seventh Valerncia International Meeting on Bayesian Statistics, (con Menchero – Fernández y Montes) Junio 2002, Tenerife.

135. Issues in Project Costing and Bidding, Bayesian Statistics 7, Seventh Valerncia International Meeting on Bayesian Statistics, (con Palomo y Ruggeri) Junio 2002, Tenerife.
136. Spatial Clustering with Multi-level Mixture Models, Bayesian Statistics 7, Seventh Valerncia International Meeting on Bayesian Statistics (con Muller y Marin) Junio 2002, Tenerife.
137. Combining expertise in dynamic linear models, CMP'04: Multiple Participant Decision Making (con Ruggeri y Palomo) Praga Junio 2004.
138. On the foundations of robust Bayesian analysis, 2002 Joint Statistical Meetings in New York, (con Criado y García del Amo) Agosto 2002, Nueva York.
139. Dynamic models with expert input, with applications to project costing ProENBIS Meeting, Rimini, September 2002.
140. Approximate solutions of complex influence diagrams through MCMC methods, EWGM, Cuenca, Noviembre 2002.
141. A novel approach to stochastic dynamic programming with applications to maintenance problems, 22nd ESREDA, 2002. ISBN 92-894-5836-4, pp 211-222.
142. Approximate solutions to Semi markov decision processes through MCMC methods, EUROCAST 2003, Las Palmas.
143. Dynamic models with expert input, with applications to project costing, 1st IMS-ISBA joint Statistical Meeting, Puerto Rico, Julio 2003.
144. AYNIKUY: A system to support participatory budgets in tungurahuaConference on eDemocracy and eGovernment, ICEDEG 2015; (con Balarezo y Lavín) Quito; Ecuador, Abril 2015
145. Some Statistical issues in e-democracy, Bayesian Analisys in Multidisciplinary World: ISBA 2004 World Meeting, (con Ruggei) Chile, May 2004.
146. Industrial bidding: Bayesian models for intercal costs forecast, Bayesian Analisys in Multidisciplinary World: ISBA 2004 World Meeting, Chile, May 2004.
147. Participatory Budgets: A Methodological Approach. 21st World Congress of Political Science Congress . IPSA 2009. (con Arenilla) Santiago de Chile, Julio 2009
148. An Internet based architecture for group decision support: towards e-democracy. IADIS International Conference on e-Society. (Con Ríos y Fernández), Ávila, Julio 2004
149. E-negotiations for participatory budgets, 15th mini EURO Conference. Managing Uncertainty in Decision Support Models. MUDSM 2004, (con Efremov, Ríos y Fernández) Coimbra, September 2004
150. Unregulated Research Assess Model by Decision Theory. CUICIID 2016 (Congreso Universitario Internacional sobre la comunicación en la profesión y en la Universidad de hoy: Contenidos, Investigación, Innovación y Docencia). (con Lavín, López Zurita, Salazar Garcés, Pérez Aldás) Madrid, Octubre 2016.
151. Decision support services: A framework for distributed decision making over the Web3rd International Conference on eDemocracy and eGovernment, ICEDEG 2016 (con Alfaro, Lavín y Gómez) Sangolqui Ecuador; March 2015.
152. A framework for participatory group decision support using Pareto frontier visualization, goal identification and arbitration, TED-06, Conference on Towars e-Democracy: Participation, Deliberation, Communities. (con Efremov y Lotov) Mantova, Octubre 2006.

153. Supporting negotiations for participatory budgets, Group Decision and Negotiation Annual Conference. GDN 2005, (con Ríos, Fernández y Rivero) July 10-13, Vienna.
154. Some experiences in designing web-based group decision support systems to facilitate citizen participation (con Grima), HCI issues in e-democracy, Manchester, Noviembre 2005.
155. Reliability Forecasting in Complex Hardware/Software Systems. Proceedings of the 1st Conference on Availability, Reliability and Security (ARES 2006). Viena, 18-20 abril de 2006.
156. TED mission and achievement, TED-06, Conference on Towars e-Democracy: Participation, Deliberation, Communities. Mantova, Octubre 2006.
157. Supporting participatory budgets over the Internet, Congreso EURO-GDN 2006. (con Ríos) Karlsruhe, Alemania. Junio 2006.
158. Supporting e-participatory budgets, TED-06, Conference on Towars e-Democracy: Participation, Deliberation, Communities. (con Ríos) Mantova, Octubre 2006.
159. J. Cano, D. Ríos Insua, Bayesian Reliability and Availability Analysis for Hardware Systems described through Continuous Time Markov Chains. XIIth International Conference on Applied Stochastic Models and Data Analysis (ASMDA 2007). Chania, Creta, Grecia, Mayo-Junio 2007.
160. R. Efremov, A. Lotov, D. Ríos Insua, From Participatory Budgets to E-Participatory Budgets: Models, Methods and Systems. The 22nd European Conference on Operational Research (EURO XXII), Praga, Julio 2007.
161. R. Efremov, A. Lotov, D. Ríos Insua, Arbitration through Pareto frontier visualization and surrogate value functions: theory and web-based experimental study. Spain Italy Netherlands Meeting On Game Theory (SING 3), Madrid, Julio 2007.
162. R. Efremov, A. Lotov, D. Ríos Insua, Application of Pareto frontier visualization in Web-based participatory budget planning. V Moscow International Conference on Operations Research (ORM 2007), Moscú, Abril 2007.
163. R. Efremov, A. Lotov, D. Ríos Insua, A framework for participatory group decision support using Pareto frontier visualization, goal identification and arbitration, VIII International Scientific Conference "Modernization Of Economy And Public Development", Moscú, Abril 2007.
164. D. Ríos Insua, J. Ríos, G. Kersten: Decision Support for participatory democracy. GDN 2007. Montreal, May 2007.
165. Advances in Adversial Risk analisys. Workshop Risk Revisited: Progress and Challenges, SAMSI. Durham, May 2008.
166. A Bayesian Framework for adversial Risk Analisys. GDN 2008 (con Ríos y Banks), Junio 2008 Coimbra.
167. J.A. Rubio, D. Ríos Insua, NAML: An XML Schema for Negotiation Analysis Support. GDN 2007. Montreal, May 2007.
168. J. Ríos , D. Ríos Insua, From participatory budgets to e-participatory budgets. GDN 2007. Montreal, May 2007.

169. Cano, Javier; Ríos ,David. Bayesian Reliability, Availability and Repairability Analysis for Hardware Systems described through Continuous Time Markov Chains. MCMSki II (Markov Chain Monte Carlo in Theory and Practice). Bormio (Italia), Enero 2008.
170. Cano, Javier; Ríos , David. Bayesian Reliability Analysis for Hard- ware/Software Systems. ISBIS: International Symposium on Business and Industrial Statistics. Praga (República Checa), Julio 2008
171. ITIL y la Economía de la Seguridad de la Información. IADIS Conferencia Ibero Americana WWW/Internet 2009 (Con Rubio y Fernández), Alcalá de Henares, Octubre 2009.
172. Tool of Participations. Collaboration, Deliberation, and Decision Support. *Designing a general architecture to support e-Government*. University of California, Berkeley, California, USA, June 26- 29, 2008. Carlos Grima Izquierdo and David Ríos Insua.
173. JSM 2008. Joint Statistical Meetings. *Bayesian risk analysis methods for ICT industry*, Denver, Colorado, USA, August 3-7, 2008. Jose Antonio Rubio and David Ríos Insua.
174. AGIFORS 2014. 54th Annual Symposium: An Industry in Transformation. *A Probabilistic Influence Diagram for Landing Runway Overrun Excursion Risk Analysis*. Dubai, United Arab Emirates, October 18-22, 2014. Eduardo Ayra, David Ríos Insua, Javier Cano and F. Calle
175. IFORMS 2014. 20th Conference of the International Federation of Operational Research Societies. *An Adversarial Risk Analysis Approach to Fraud Detection*. Barcelona, July 13-18, 2014. Javier Cano and David Ríos Insua.
176. Workshop on Algorithmic Decision Theory and Meeting of the COST Action ICO602. *One-Sided Decision Support for Competitive Bidding*. University Paris Dauphine, France, October 28-31, 2008. Jesus Ríos, David Ríos Insua and David Banks.
177. ADT 2009. 1th International Conference on Algorithmic Decision Theory Adversarial Risk Analysis. *Applications to Basic Counterterrorism Models*, Venice, Italy, October 20-23, 2009. David Ríos Insua.
178. ISI 2009. 57th Session of Adversarial Risk Analysis. *Influence Diagrams and Auctions*. Durban, South Africa, August 16-22, 2009. Jesus Ríos and David Ríos Insua.
179. AECPA 2009. IX Congreso Español de Ciencia Política y de la Administración. Repensar la democracia: inclusión y diversidad. *Procesos y herramientas participativas y e-participativas*. Málaga, September 23-25, 2009. Jose María Lavín, Cesar Alfaro, Javier Gómez and David Ríos Insua.
180. WEDSTAT'09. Workshop on Theoretical and Applied Statistics. *Bay Ram: a software for Bayesian reliability, availability and maintainability analysys of Hardware and Software sytems*. Ti- zi Ouzou, Argelia, May 2009. David Ríos Insua (invited).
181. MMR 2009. International Conference on Mathematical Methods on Reliability. *BayRAM: A Package for Bayesian Assessment of System Reliability, Availability and Maintainability*. Moscu, Rusia, June 22-27, 2009. Javier Cano and David Ríos Insua.
182. 25th Mini-EURO Conference Uncertainty and Robustness in Planning and Decision Making (URPDM 2010). *Multiobjective management of the Kwanza River*. Coimbra, Portugal, April 15-17, 2010. Kiombo Jean Marie, Javier Cano and David Ríos Insua.
183. SMRLO'10. The International Symposium on Stochastic Models in Reliability Engineering, Life Sciences and Operations Management. *On the assessment of Reliability*,

Availability and Maintainability of Complex HW/SW systems using a Bayesian Analyzer. Beer Sheva, Israel, February 8-10, 2010. Javier Cano, Javier M. Moguerza, David Ríos Insua.

184. The 9th Valencia International Meeting on Bayesian Statistics and the 2010 World Meeting of the International Society for Bayesian Analysis. *Bayesian analysis of semimarkovian models with applications to hardware reliability.* Benidorm, Alicante, Spain, June 3-8, 2010. Javier Cano, Javier M. Moguerza and David Ríos Insua.

185. GDRR 2011. Second Symposium on Games and Decisions in Reliability and Risk. *Bayesian Analysis for semi-Markov Processes with Applications to Reliability and Maintenance.* Belgirate (VB), Lake Maggiore, Italy, May, 19-21, 2011. David Ríos Insua.

186. GDRR 2011. Second Symposium on Games and Decisions in Reliability and Risk. *Managing Adversarial Risks: The Somali Pirates Case.* Belgirate (VB), Lake Maggiore, Italy, May 19-21, 2011. (esus Ríos, David Ríos Insua and Juan Carlos Sevillano.

187. IFORS 2011. 19th Triennial Conference of the International Federation of Operational Research Societies. *Cost Efficient Equitable Water Distribution in Algeria: A Bi-criteria Fair Division Problem with Network Constraints.* Melbourne, Australia, July 10-15, 2011. Javier Cano, Angel Udias, David Rios-Insua and Hocine Fellag.

188. NIPS 2011. Twenty-Fifth Annual Conference on Neural Information Processing Systems. *Decision Making with Multiple Imperfect Decision Makers.* Granada, Spain, December 12-17, 2011. Tatiana V. Guy Miroslav Karny, David H Wolpert, Alessandro Villa and David Rios Insua.

189. NIPS 2011. Twenty-Fifth Annual Conference on Neural Information Processing Systems. *AISoy1, a Robot that Perceives, Feels and Makes Decision.* Granada, Spain, December 12-17, 2011. Diego R García Sánchez, David Ríos Insua.

190. EDULEARN 2011. 3rd International Conference on Education and New Learning Technologies. *Step by Step, Building a Virtual Exchange Program Between Five European Universities.* Barcelona, Spain, July 4-6, 2011. Andres Redchuk, Javier M Moguerza, David Ríos Insua and Javier Cano.

191. EURO 2012. 25th European Conference on Operational Research. *Multicriteria Decision Aid for Equitable Water Distribution Network.* Vilnius, Lituania, July 8-11, 2012. Jose Luis Castaño Cabrales, Angel Udias, David Ríos Insua, Javier Cano, and Hocine Fellag.

192. EURO 2012. 25th European Conference on Operational Research. *Expanding the Hydroelectric Power Capacity of the Kwanza River.* Vilnius, Lituania, July 8-11, 2012. Javier Cano, Kiombo Jean Marie, David Río Insua.

193. SEIO 2012. XXXIII Congreso Nacional de Estadística e Investigación Operativa. *Adversarial risk analysis resource allocation models for urban security.* Madrid, Spain, April 17-20, 2012. David Ríos Insua., Jesus Ríos and Carlos Gil.

194. SEIO 2012. XXXIII Congreso Nacional de Estadística e Investigación Operativa. *An improvement of the large-scale energy plan for Angola. An application of two-stage stochastic optimization.* Madrid, Spain, April 17-20, 2012. Alcides Neto Simbo, Laureano Escudero Bueno and David Ríos Insua.

195. SEIO 2012. XXXIII Congreso Nacional de Estadística e Investigación Operativa. Direcciones de curvatura negativa mejoradas para problemas. Madrid, Spain, April 17-20, 2012. Kiombo Jean Marie, Javier Cano Cancela and David Ríos Insua.

196. SEIO 2012. XXXIII Congreso Nacional de Estadística e Investigación Operativa. *Un modelo de ayuda a la decisión para la estimación del combustible óptimo de espera en*

aeropuertos con demoras significativas. Madrid, Spain, April 17-20, 2012. Eduardo Sanchez Ayra, David Ríos Insua and Javier Cano.

197. ADT 2013. 3rd International Conference on Algorithmic Decision Theory. *Opponent modeling in adversarial risk analysis.* Université libre de Bruxelles, Belgium, November 13-15, 2013. David Ríos Insua and Jesus Ríos.

198. MCDM 2013. 22nd International Conference on Multiple Criteria Decision Making. *Adversarial Risk Analysis on Transport Infrastructures.* Málaga, Spain, June 17-21, 2013. Javier Cano, David Ríos Insua, Alexandra Tedeschi, and Ugur Turhan.

199. EURO 2013. 26th European Conference on Oprational Research. *Adversarial and Non-Adversarial Risk Analysis for Security over Multiples Sites.* Roma, Italy, July 1-4, 2013. Javier Cano and David Ríos Insua.

200. SING9. 9th Spain- Italy-Netherlands Meeting on Game Theory. *A robotic platform for experimental game theory.* Vigo, Spain, July 8 – 10, 2013. Alberto Redondo and David Ríos Insua.

201. DAS 2014. Advances in Decision Analysis Conference. *Adversial Risk Analisys of the Multithreat Multithreat Multisite.* Georgetown University, Washington DC, USA, June 16, 2014. David Ríos Insua.

202. SRA 2014. Society for Risk Analysis Annual Meeting. *Adversarial risk analysis models of opponent behavior.* Denver, CO, USA, December 7-11, 2014. David Ríos Insua., David Banks and Jesus Ríos.

203. SRA 2014. Society for Risk Analysis Annual Meeting. *RIMAS: a risk analysis methodology for aviation safety.* Denver, CO, USA, December 7-11, 2014. Verónica Elvira, Francisco Bernal, Pablo Hernández-Coronado, Esperanza Herráiz, Cesar Alfaro, Javier Gámez, and David Ríos Insua.

204. SRA-E 2014. The 23rd Society for Risk Analysis Europe Annual Meeting. Analysis and governance of risks beyond boundaries. *Multithreat Multisite Protection: An Adversarial Risk Analysis Approach.* Istanbul, Turkey, June 16-18, 2014. Javier Cano and David Ríos.

205. SRA 2016. Society for Risk Analysis Annual Meeting. Risk and Resilience: Viva la Revolución!. *Adversial Hypothesis testing.* San Diego, CA, USA, December 11-15, 2016. Jorge González Ortega, David Ríos Insua y Javier Cano.

206. EURO 2016. 28th European Conference on Operational Research. *Adversarial risk analysis for urban security.* Poznan University of Technology, Poland, July 3-6, 2016. David Ríos, Jesus Ríos y Cesar Gil.

207. SEIO 2016. XXXVI Congreso Nacional de Estadística e Investigación Operativa. *Adversarial risk analysis for bi-agent influence diagrams.* Castilla La Mancha University, Toledo, Spain, September 5-7, 2016. Jorge González Ortega, David Ríos Insua and Javier Cano Cancela.

208. 2017 Final COST workshop. Expert Judgment Network: Bridging the Gap Between Scientific Uncertainty and Evidence-Based Decision Making. *The state of the art in expert judgement.* Delft University of Technology, Delft, The Netherlands, July 3-5, 2017. David Ríos Insua (invited).

209. Country Risk. Matchmaking Conference. *How to take cyber-risk into account when assessing country risk?.* AXA, Paris, May 23, 2017. David Ríos Insua(invited).

210. BIPS10. 10th International Workshop on Bayesian Inference in Stochastic Processes. *Monitoring for anomalous behaviour in massive traffic time series*. Bocconi University, Milano, June 13-15, 2017. Roi Naveiro, Simon Rodriguez, David Rios Insua.
211. GraMSec 2017 Workshop. The Fourth International Workshop on Graphical Models for Security. *CSIRA: A Method for Analysing the Risk of Cybersecurity Incidents*. Santa Barbara, CA, USA, August 21, 2017. Aitor Couce-Vieira, Siv Hilde Houmb, David Ríos Insua.
212. GERAD 2017. Ninth Workshop on Dynamic Games in Management Science. *Hypothesis Testing in Presence of Adversaries*. HEC, Montreal, Canada, October 12-13, 2017. (J. González Ortega, D. Ríos Insua, F. Ruggeri, R. Soyer).
213. SRA 2017. Society For Risk Analysis Annual Meeting. *An Algorithmic Adversarial Risk Analysis Approach for Bi-agent Influence Diagrams*. Arlington, Virginia, USA, December 10-14, 2017. Jorge González Ortega, David Ríos Insua.
214. SEIO 2018. XXVII Congreso Nacional de Estadística e Investigación Operativa. *An Adversarial Risk Analysis Approach to Differential Games: A Botnet Defense Model*. Oviedo, Spain, May 29 – June 1, 2018. Jorge González-Ortega, Antonio Gómez-Corral, David Ríos Insua.
215. SEIO 2018. XXVII Congreso Nacional de Estadística e Investigación Operativa. *Adversarial classification: An adversarial risk analysis approach*. Oviedo, Spain, May 29 – June 1, 2018. Roi Naveiro, Alberto Redondo, David Ríos y Fabrizio Ruggeri.
216. SRA-E 2018. 27th Annual Conference of the Society for Risk Analysis Europe. Risk & Uncertainty – From Critical Thinking to Practical Impact. *Adversarial Statistical Decision Theory: Embracing Adversarial Risk Analysis*. Mid Sweden University, Östersund, Sweden, June 18-20, 2018. David Ríos Insua, Jorge González Ortega, David Banks, Jesus Ríos.
217. SRA-E 2018. 27th Annual Conference of the Society for Risk Analysis Europe. Risk & Uncertainty – From Critical Thinking to Practical Impact. *An adversarial risk analysis framework for cybersecurity*. Mid Sweden University, Östersund, Sweden, June 18–20, 2018. David Ríos Insua, Aitor Couce-Vieira, Jose Vila.
218. ISBA 2018. The International Society for Bayesian Analysis World Meeting. *Adversarial Statistical Decision Theory*. Edinburgh, UK, June 24-29, June 2018. David Ríos Insua, David Banks, Refik Soyer.
219. ISBA 2018. The International Society for Bayesian Analysis World Meeting. *A Bayesian network for runway excursions in aviation safety*. Edinburgh, UK, June 24-29, 2018. Javier Cano and David Ríos Insua.
220. EURO 2018. 29Th European Conference on Operational Research. *An Adversarial Risk Analysis Approach to Differential Games: A Botnet Defense Model*. Valencia, July 8-11, 2018. Jorge González-Ortega, Antonio Gómez-Corral and David Ríos Insua.
221. EURO 2018. 29Th European Conference on Operational Research. *Affective decision making models with applications to social robotics*. Valencia, July 8-11, 2018. David Ríos Insua and Si Liu.
222. EURO 2018. 29Th European Conference on Operational Research. *Risk analysis models for cyber insurance*. Valencia, July 8-11, 2018. Aitor Couce Vieira, David Ríos Insua.
223. ECoSP 2018 - ARES 2018. ECoSP workshop on Cybersecurity and Privacy and the 13th International Conference on Availability, Reliability and Security. *CYBECO: Supporting Cyber-Insurance from a Behavioural Choice Perspective*. Hamburg, August 27-30, 2018. Vassileiadis, N., Couce Vieira, Ríos Insua, D., Chatzigiannakis, V., Tsekridou, S., Gómez, Y., Vila, J., Labunets, K., Pieters, W., Briggs P and Branley-Bell, D.

224. INFORMS Annual Meeting 2018. *RIMAS: Safer skies in Spain*. Phoenix, USA, November 4-7, 2018. Verónica Elvira, Francisco Bernal, Pablo Hernández-Coronado, Esperanza Herráiz, Cesar Alfaro, Javier Gómez, and David Ríos Insua.
225. SRA 2018. Society For Risk Analysis Annual Meeting. *An Adversarial Risk Analysis Approach for Differential Games: A Botnet Defense Model*. New Orleans (LA), December 2-6, 2018. Jorge González-Ortega, Antonio Gómez-Corral, David Ríos Insua.
226. SRA 2018. Society For Risk Analysis Annual Meeting. *A Generic Tree of Cybersecurity Objectives*. New Orleans (LA), December 2-6, 2018. Aitor Couce Vieria, David Ríos Insua.
227. 2019 INFORMS Conference on Business Analytics & Operations Research. *RIMAS, safer skies over Spain*. Austin (TX). April 14 -16, 2019. Verónica Elvira, Francisco Bernal, Pablo Hernández-Coronado, Esperanza Herráiz, Cesar Alfaro, Javier Gómez, and David Ríos Insua.
228. GDRR 2019: Sixth Symposium on Games and Decisions in Reliability and Risk. *An Adversarial Risk Analysis based Framework and Decision Support System for Cybersecurity Risk Management*. George Washington University, Washington, DC, USA, May 29 – 31, 2019. David Ríos Insua.
229. ADA 2019. INFORMS 2019 Advances in Decision Analysis Conference. *Markov Decision Processes under Threats*. Bocconi University, Milano, June, 19 -21, 2019. Victor Gallego, Roi Naveiro, David Gómez-Ullate and David Ríos Insua.
230. SRA-E 2019. 28 th Society for Risk Analysis Europe Annual Meeting. Systemic Risks: From Natural Hazards to Cyber Risks. *An adversarial risk analysis approach to differential games: A botnet defense model*. Potsdam, Germany from June 24-26, 2019. Jorge González-Ortega, Antonio Gómez-Corral and David Ríos Insua.
231. EURO 2019. 30th European Conference on Operational Research. *Group decision making with affective characteristics*. Dublin, Ireland, une 23 - 26, 2019. Alberto Redondo, David Ríos, Joel Brynielsson, Edward Tjornhammar.
232. EURO 2019. 30th European Conference on Operational Research. *Adversarial Risk Analysis for Obfuscation Attacks (AROA)*. Dublin, Ireland, June 23 - 26, 2019. Si Liu and David Ríos Insua.
233. Second Conference on Risk Analysis in the Digital Era, organized by the Society for Risk Analysis and the University at Buffalo. *Adversarial Risk Analysis for Obfuscation Attacks (AROA)*. Buffalo/Niagara Falls, NY, USA. July 30 - August 2, 2019. Alberto Redondo and David Ríos Insua.
234. 2nd Symposium on Advances in Approximate Bayesian Inference. *Variationally Inferred Sampling Through a Refined Bound*. Vancouver, Canadá, December 8, 2019. Victor Gallego and David Ríos Insua.
235. NIPS 2018. Bayesian Deep Learning Workshop. *Stochastic Gradient MCMC with Repulsive Forces*. Montréal, Canada, December 7, 2018. Victor Gallego and David Ríos Insua.
236. GDRR Program Opening Workshop. *Variationally Inferred Sampling for Probabilistic Programs*. SAMSI, Durham, NC, USA. August 5-9, 2019. Victor Gallego and David Ríos Insua..
237. ADT 2019. The 6th International Conference on Algorithmic Decision Theory. *Stochastic Gradient Methods for Solving Stackelberg Games*. Duke University, Durham, NC, USA, October 25-27, 2019. Roi Naveiro y David Ríos Insua.
238. GDRR Program Opening Workshop. *Augmented Probability Simulation Methods for Non-cooperative Games*. SAMSI, Durham, NC, USA. August 5-9, 2019. Roi Naveiro y David Ríos Insua.

239. Second Conference on Risk Analysis in the Digital Era, organized by the Society for Risk Analysis and the University at Buffalo. *Augmented Probability Simulation Methods for Non-cooperative Games*. Buffalo/Niagara Falls, NY, USA. July 30 - August 2, 2019. Roi Naveiro, Alberto Torres, Tahir Ekin and David Ríos Insua.
240. SEIO 2019. XXXVIII Congreso Nacional de Estadística e Investigación Operativa. *Hypothesis Testing in Presence of Adversaries*. Alcoy, Alicante, Spain, September 3-6, 2019. J. González Ortega, D. Ríos Insua, F. Ruggeri, R. Soyer.
241. Transportation Workshop, *Bayesian Approach to Assess Vehicle-to-Driver Take-Over Risks in Autonomous Driving Systems*. SAMSI, Durham, NC, USA. March 9, 2020. Bruno Flores and David Ríos Insua.
242. Transportation Workshop, *An Analytical Parametric Model to Approximate the Travel Time Distribution*. SAMSI, Durham, NC, USA. March 11, 2020. Alex Kosgodagan and David Ríos Insua.
243. ICDSST 2020. 6th International Conference on Decision Support System Technology. *Decision Support Issues in Autonomous Vehicle*. Zaragoza, May 27 - 29, 2020. David Ríos Insua.
244. Transportation Virtual Workshop. *Managing Driving Modes in Autonomous Driving Systems*. SAMSI, Durham, NC, USA, December 9, 2020. David Ríos Insua.
245. INFORMS ANNUAL MEETING 2020. *Adversarial Aware Reinforcement Learning for Security Games*. Virtual. November 7-13, 2020. Victor Gallego, Roi Naveiro, David Ríos Insua.
246. ISI 2021. 63rd ISI World Statistics Congress 2021. *Issues in Modern Transportation Statistics*. Virtual, July 11-16, 2021. Roi Naveiro, David Ríos Insua.
247. EYSM2021. 22nd European Young Statisticians Meeting. *Protecting Classifiers from Attacks*, Athens, Greece, September 6-10, 2021. Roi Naveiro, Victor Gallego, Alberto Redondo, David Ríos Insua and Fabrizio Ruggeri.
248. 10th International Congress on Transportation Research. Future Mobility and Resilient Transport: Transition to innovation. *Towards ethical decision support in automated driving systems*. Rhodes, Greece, September 1 – 3, 2021. Roi Naveiro, David Ríos and Willian Caballero.
249. CHIRA 21. International Conference on Computer-Human Interaction Research and Applications. *Towards Acceptance of Automated Driving Systems*. Virtual, October 28-29, 2021. Samantha Jamson, Konstantinos Risvas, Roi Naveiro, David Ríos Insua, Konstantinos Moustakas, Mikolaj Kruszewski, Aleksandra Rodak and Alessandro Barisone.
250. SEIO 2022. XXXIX Congreso Nacional de Estadística e Investigación Operativa y de las XIII Jornadas de Estadística Pública. Advanced machine learning approaches for marketing based on social login. Granada, June 7-10, 2022. J. M. Camacho Rodríguez, Roi Naveiro, David Ríos Insua.

11. PATENTS

Procedimiento y Dispositivo de Clasificación para Grandes Volúmenes de Datos/ Classification Procedure and Device for Large Volumes of Data. Publication number: ES2438366-B1. Date of grant: 15-10-2014. Application number: P201230903. In operation by the company: DEVSTAT Servicios de Consultoría Estadística SA.

12. SUBJECTS, COURSES AND SEMINARS

Undergraduate or graduate courses

University of Leeds

Introduction to Operations Research.

Universidad Politécnica de Madrid

Investigación Operativa, Modelos y Simulación, Redes y Procesos Estocásticos.

Operations Research, Models and Simulation, Networks and Stochastic Processes.

Universidad Rey Juan Carlos

Matemática Discreta, Estadística, Sistemas de Ayuda a la Decisión, Evaluación de Sistemas Informáticos, Técnicas de Simulación, Estadística Matemática, Métodos Operativos y Estadísticos de Gestión, Bioestadística, Sistemas de Apoyo a la Toma de Decisiones Ambientales, Métodos de Simulación, Métodos Bayesianos en Ingeniería, Razonamiento Probabilístico y Estadístico.

Discrete Mathematics, Statistics, Decision Support Systems, Computer Systems Evaluation, Simulation Techniques, Mathematical Statistics, Operational and Statistical Management Methods, Biostatistics, Environmental Decision Support Systems, Simulation Methods, Bayesian Methods in Engineering, Probabilistic and Statistical Reasoning.

Post-graduate courses

Universidad Politécnica de Madrid

Doctorado Ciencias de la Computación e Inteligencia Artificial:

Métodos de optimización y Razonamiento probabilístico en sistemas de decisión inteligentes.

Análisis de Decisión Estadística.

Computación Aleatorizada.

PhD in Computer Science and Artificial Intelligence:

Optimization methods and Probabilistic reasoning in intelligent decision systems.

Statistical Decision Analysis.

Randomized Computing.

Universidad Complutense de Madrid:

Doctorado en Ingeniería Matemática, Estadística e Investigación Operativa (IMEIO)

Del Análisis de Riesgos al Análisis de Riesgos Adversarios

PhD in Mathematical Engineering, Statistics and Operations Research (IMEIO)

From Risk Analysis to Adversarial Risk Analysis

(SAMSI): The Statistical and Applied Mathematical Sciences Institute

Research Programs Year-Long Program on Games, Decisions, Risk, and Reliability (GDRR).

Research Programs Year-Long Program on Extreme Events, Risk Analysis and Decision Theory.

Universidad Rey Juan Carlos

Máster en Ingeniería de Sistemas de Decisión: Ingeniería de la Decisión, Modelización y Tratamiento de la Intertidumbre, Simulación y Metaheurística.

Master's Degree in Decision Systems Engineering: Decision Engineering, Modeling and Treatment of Intertainty, Simulation and Metaheuristics.

Máster en Ingeniería de Sistemas de la Información: Sistemas de Información para la Decisión.

Master's Degree in Information Systems Engineering: Decision Information Systems.

Université Paris Dauphine

Máster. Risk Analysis and Adversarial Risk Analysis.

Aalto University

Máster. From Risk Analysis to Adversarial Risk Analysis

Purdue University

Máster. STAT-511

Short courses

- 1) Course en Investigación Operativa en los Sistemas Sanitarios, Escuela Nacional de Salud. Simulación y Medidas de Eficacia Sanitaria. 7 - 29 March 1990
- 2) Course en Análisis de Decisiones. Escuela Politécnica del Ejército, Madrid. Análisis de Decisiones, 14 de diciembre de 1993.
- 3) Course en Análisis de Decisiones. Hospital Gregorio Marañón, Madrid. Análisis de Decisiones, 2 - 4 de February de 1994.
- 4) Seminario en ETS Arquitectura (UPM), Madrid. Planificación integrada de cuencas fluviales, 6 de noviembre de 1994. (Course de Doctorado sobre lo público y lo privado)
- 5) Course en la Universidad de Oviedo, Teoría de la Decisión y sus Aplicaciones en Inteligencia Artificial, 6-7 de March de 1995.
- 6) Seminario en Facultad de Matemáticas, Universidad de Sevilla, Algunos resultados sobre robustez bayesiana, 5 de junio de 1995. (Course sobre programación con objetivos multiples y convexidad generalizada)
- 7) Course sobre Métodos Bayesianos en Inteligencia Artificial, Universidad de Las Palmas, 24-29 noviembre de 1997. (Programa Doctorado sobre Percepción)

- 8) Course de Summer en la Universidad de Castilla la Mancha: Sistemas expertos probabilísticos. Modelos gráficos para la toma de decisiones. Albacete, julio de 1998.
- 9) Course en la Universidad Rey Juan Carlos. Nuevas Técnicas de la inteligencia artificial: Agentes Inteligentes. Madrid, octubre de 1998. (Course FSE sobre Aplicaciones de la Inteligencia Artificial)
- 10) Course ISE Tecnología del Petroleo y Gas. Toma de decisiones estratégicas, Master REPSOL- YPF. Madrid, abril 2000.
- 11) Seminario sobre Los lenguajes del hombre, Cursos de Summer URJC. Almería, julio 2001
- 12) Course Summer Symposium on Theory and Applications of Sensitivity Analysis of Model Output in Computer Simulation. SAMO. Venecia, julio 1999,
- 13) Course de Técnicas Avanzadas en Inteligencia Artificial. Universidad Alcalá de Henares. Octubre 1998
- 14) Course sobre Aplicaciones industriales de la Estadística, URJC-PROENBIS, Madrid, diciembre 2003.
- 15) Course sobre Simulación, Course de Summer de la Universidad de Lleida, Seo, julio 2002.
- 16) Course de Summer sobre e-democracia, Varennna (Italia), September 2003.
- 17) Course de 3er Ciclo del Instituto de España. Análisis Bayesianos: métodos y aplicaciones avanzadas. Madrid, February 2003.
- 18) Course de Summer Universidda Complutense de Madrid. E-Democracia, retos y límites de la NNTT para la acción, participación y la representación política". Internet y la NTIC en la toma de decisiones políticas. El Escorial, agosto 2004.
- 19) Course de 3er Ciclo del Instituto de España. Análisis Bayesianos: métodos y aplicaciones avanzadas. Madrid, February 2005.
- 20) Course de Summer Universidad Rey Juan Carlos. Democracia electrónica. Análisis de negociaciones. Aranjuez, julio 2005.
- 21) Course sobre Introducción a la Ingenieríaa de la Decisión. Universidad del Sinú. 2006 FIEDEG. Colombia, noviembre 2006.
- 22) Course sobre Análisis de Decisiones y Negociaciones. Universidad Aotónoma del Estado de Hidalgo (México). May 2008.
- 23) Course sobre Análisis de Decisiones y Negociaciones. Universidad Técnica de Ambato (Ecuador). Octubre 2009.
- 24) Course Short course in Bayesian Analysis of Stochastic Processes, World Congress ISBA 2014, Cancun, Julio 2014.
- 25) Course sobre Análisis de Decisiones y Negoaciaciones. Universidad Técnica de Ambato (Ecuador). Abril 2009.
- 26) Course sobre Análisis de Riesgos. Fomento. AESA (Agencioa Española de Seguridad Aérea). Madrid, junio 2011.
- 27) Course de Summer de la Universidad de Castilla la Mancha 2013. Aplicaciones de la estadística en la vida real. Modelos estadísticos para la seguridad y la lucha contra el terrorismo. Ciudad Real, octubre 2013.
- 28) Course Ingeniería de Datos: Una visión introductoria. Real Academia de Ingeniería. Madrid, March 2014.

- 29) Risk Analysis 2, AESA: Agencia Española de Seguridad Aérea. Madrid, April, 2015
- 30) From risk analysis to adversarial risk analysis. JAE School of Mathematics 2015, ICMAT. Madrid, July, 2015.
- 31) Risk Analysis 3, AESA: Egencia Española de Seguridad Aérea. Madrid, November, 2015.
- 32) Juegos y decisiones – Matemáticas para ayuda a la toma de decisiones. JAE School of Mathematics 2016, ICMAT. Madrid, July 15, 2016.
- 33) Risk Analysis 4, AESA: Egencia Española de Seguridad Aérea. Madrid, April, 2016
- 34) Risk Management with Big Data and Applications in Industry Bu Ali Sina University, Hamedan, Iran, September 3-5, 2017.
- 35) PE Inteligencia Artificial and Deep Learning. EOI: Escuela de Organización Industrial. Madrid, June, 2018. (22 hours)
- 36) Actuales avances en Máquinas de Aprendizaje. Fundación José Ortega y Gasset – Gregorio Marañón. Madrid, September 28-30, 2018.
- 37) Machine Learning. INE: Instituto Nacional de Estadística. Madrid, March 19 – June 3, 2019. (56 hours)
- 38) PE Inteligencia Artificial. EOI: Escuela de Organización Industrial. Madrid, May, 2019 (8 hours)
- 39) Adversarial Machine Learning: An Adversarial Risk Analysis Perspective. Postdoctoral Fellow Seminars: Spring 2020, SAMSI, Durham, NC, USA, February 5, 2020
- 40) Program on Games, Decisions, Risk and Reliability. SAMSI. Durham, NC, USA, May 2019 – May 2020.
- 41) Course at PSL on Data, Risks and Disasters. Spring 2021.
- 42) Security risk models for cyber insurance, Lecture at La Sorbonne Université, November 2020.
- 43) Machine learning: Foundations, Computations and Applications. JAE School of Mathematics 2021, ICMAT. Madrid, June 21-25, 2021. David Ríos Insua and Roi Naveiro
- 44) Bayesian methods in Artificial Intelligence. JAE School of Mathematics 2021, ICMAT. Madrid, June 24-29, 2021. David Ríos Insua and Roi Naveiro

Seminars and Conferences

- 1) Seminario en Real Academia de Ciencias, Métodos Coherentes de Representación de la imprecisión. Madrid, 7 de March 1990
- 2) Seminario en International Institute for Applied Systems Analysis (IIASA). Sensitivity analysis in Multiobjective decision making. Austria, 17 agosto 1990
- 3) Seminario en Universidad de Praga (CSFR), Sensitivity, Ambiguity and imprecision in decision making. 22 de noviembre 1990.
- 4) Seminario en Goldsmiths College, Sensitivity, Ambiguity and Imprecision in Decision Analysis. Londres, 15 de enero 1991.

- 5) Seminario en International Institute for Applied Systems Analysis (IIASA). Predicting the Future: the Bayesian Approach. Austria, 30 de agosto 1991.
- 6) Seminario en Duke University. Sensitivity Analysis in Decision Analysis. Durham, 4 de octubre 1991.
- 7) Seminario en Real Academia de Ciencias, Análisis de Decisiones e Inteligencia Artificial. Madrid, 3 de diciembre 1991.

- 9) Seminario en ETSI Industriales, UPM, Análisis de Decisiones y Medio Ambiente. Madrid, 30 de junio 1992.
- 10) Conferencia en Real Academia de Ciencias sobre Inteligencia Artificial. Dirigido por Darío Maravall, Extensiones y aplicaciones de los diagramas de influencia. Madrid, 1 de diciembre 1992.
- 11) Seminario en ISDS Duke University. The operation of Kariba Lake: a Bayesian analysis. Durham, 6 de abril de 1993.
- 12) Seminario en Fuqua School of Business. Duke University. Ambiguity, sensitivity and imprecision in Decision Theory. Durham, 7 de abril de 1993.
- 13) Seminario en Dept. of Statistics, Purdue University. The operation of Kariba Lake: a Bayesian analysis. Indiana, 27 de abril de 1993.
- 14) III Seminario Fronteras de la Informática. Real Academia de Ciencias. Algunas aplicaciones de Inferencia Bayesiana en Inteligencia Artificial. Madrid, 2 de diciembre de 1993.
- 15) Seminario en Dpt. of Statistics, Purdue University, Issues in Robust Bayesian Analysis under imprecise beliefs and preferences. Indiana, 13 de September de 1994.
- 16) Seminario en ISDS, Duke University, Issues in Robust Bayesian Analysis under imprecise beliefs and preferences, 7 de octubre de 1994.
- 17) Seminario en School of Business, University of Kansas, Robustness Issues in Bayesian Decision Analysis, 9 de noviembre de 1994.
- 18) Seminario en CNR-IAMI. On the foundations of robust Bayesian Statistics and consequences, Milán, 10 de enero de 1995.
- 19) Seminario en Joint Research Center, JRC- EU. Sensitivity analysis in Decision Analysis. Ispra, 24 de octubre de 1995.
- 20) Seminario en CNR-IAMI, Issues in Bayesian analysis of neural network models. Milán, 28 de noviembre de 1995.
- 21) Seminario de Estadística, Universitá degli Studi di Pavia, A general approach to robust Bayesian analysis. Pavía, 22 de enero de 1996.

- 23) Seminario en Facultad de Informática, Universisad Politécnica de Madrid. Computación Bayesiana en modelos de redes de neuronas. Madrid, 22 de March de 1996.
- 24) Seminario en Dep. Estadística e IO, Universidat Politécnica de Valencia, Computación Bayesiana en modelos de redes de neuronas. Madrid, 16 de abril de 1996.
- 26) Seminario en Real Academia de Ciencias, Managing large reservoirs with BayRes. Madrid, 21 de enero de 1997.
- 27) Conferencia en Festimad, Nuevas tecnologías para un mundo mejor. Madrid, 28 de abril de 1998.

- 28) Seminario en Escuela de Estadística de la Universidad Complutense de Madrid. Análisis Bayesiano de redes neuronales. Madrid, 11 de May de 1998.
- 29) Seminario en URJC Aplicaciones Industriales y Empresariales de la Estadística: Estadística industrial. Qué, cuando y cómo. Madrid, diciembre 2003.
- 30) Seminario en URJC. Aplicaciones Industriales y Empresariales de la Estadística: Simulación y mejora de una línea de producción. Madrid, diciembre 2003.
- 31) Conferencia en Institución Libre de Enseñanza, Modelos para toma de decisiones en Medicina. Madrid, enero 2000.
- 32) Seminario en Real Academia de Ciencias, Redes neuronales: aplicaciones en predicción. Madrid, May 2000.
- 33) Seminario Claves Técnicas de Investigación Médica en el Hospital 12 Octubre. Análisis Estadísticos. Alternativa Bayesiana. Madrid, junio 2000.
- 34) Seminario en Instituto de España. Algunos modelos de planificación energética basados en el análisis de decisiones, “Seminario: Toma de decisiones en ambientes profesionales”. Madrid, noviembre 2000.
- 35) Program 2000 - World Mathematics Year. Real Academia de Ciencias. La arquitectura del conocimiento complejo, el sentido común y la probabilidad. Madrid, noviembre 2000.
- 36) Lección inaugural del Course 2000-2001. Matemáticas, Decisiones y Progreso Social. Universidad Rey Juan Carlos. Madrid, octubre 2000.
- 37) Program 2000 - World Mathematics Year. Real Academia de Ciencias La arquitectura del conocimiento complejo, el sentido común y la probabilidad. Málaga, noviembre 2000.
- 38) Program 2000 - World Mathematics Year. Real Academia de Ciencias. La arquitectura del conocimiento complejo, el sentido común y la probabilidad. Universidad de Castilla la Mancha. Toledo, noviembre 2000.
- 39) Program 2000 - World Mathematics Year. Real Academia de Ciencias. La arquitectura del conocimiento complejo, el sentido común y la probabilidad. Universidad de La Rioja. Logroño, enero 2001.
- 40) Program 2000 - World Mathematics Year. Real Academia de Ciencias. La arquitectura del conocimiento complejo, el sentido común y la probabilidad. Academia de Artillería Segovia. February 2001.
- 41) II Seminario Biología de la Conservación de Plantas Amenazadas. Métodos Bayesianos en Biología de Conservación. ETSI Agrícolas, Universidad Politécnica de Madrid. February 2001.
- 42) Program 2000 - World Mathematics Year. Real Academia de Ciencias. La arquitectura del conocimiento complejo, el sentido común y la probabilidad. Universidad de Oviedo. March 2001.
- 43) Seminario en Universidad Politécnica de Valencia. Un proyecto de titulación en Ingeniería Matemática. Valencia, September 2001.
- 44) Seminario en Universidad Politécnica de Valencia. El impacto de la consultoría en la docencia e investigación. Valencia, September 2001.
- 45) Seminario en la Real Academia de Ciencias y la Universidad Complutense. La estadística Bayesiana: regreso al futuro. Madrid, diciembre 2001.

- 46) Seminario en Información Estadística. El papel de la estadística regional en el sistema estadístico español. INE-CM. Madrid, octubre 2002.
- 47) Reunión “Mathématique et Environnement”. Real Academia de Ciencias y Academia Francesa. Recent developments in bayesian inference with applications in hydrology. Paris, May 2002
- 48) Seminario en Universidad de Zaragoza. Democracia Electrónica. Junio 2003.
- 49) 4º Seminario sobre Nuevas Tecnologías en la Investigación, el Marketing y la Comunicación. Nuevas tecnologías: Gobierno y democracia. AEDEMO. Toledo. 22 octubre 2004.
- 50) III Centenario del nacimiento de Bayes. Estadística Bayesiana: Regreso al futuro. Madrid, junio 2003.
- 51) Seminario de clausura de Net.es. Sobre la democracia electrónica. Madrid, octubre 2003.
- 52) Seminario de presentación de *edemocracia.com*. Internet y las NTIC en la administración y las Instituciones en el ámbito europeo. Madrid, noviembre 2003.
- 53) Seminario apertura de ICT4D. Social Exclusion and information technologies. Challenges and opportunities. Barcelona, noviembre 2003.
- 54) II Jornadas Infodiez. Nuevas Tecnologías como herramientas en las administraciones Públicas. Una introducción a la democracia electrónica. Universidad de Zaragoza. March 2004.
- 55) Seminario en la Universidad de Extremadura. Conceptos sobre democracia electrónica. Badajoz, March 2005.
- 56) Jornada e-Democracia: Retos y límites de las nuevas tecnologías para la acción, participación y la representación política. Madrid, noviembre 2003. *try, Towards electronic democracy*. Abril 2005.
- 57) Seminario Hacia la Sociedad de la Imaginación: Imaginaciones e Invenciones. Empresa e Innovación. Fundación Vodafone. Cáceres. Abril 2005.
- 58) University. CS research at URJC. Seminario Tsinghua Julio 2005.
- 59) Cursos de Summer URJC. Democracia electrónica. Análisis de negociaciones. Aranjuez, julio 2005
- 60) Cursos de Summer URJC. Las nuevas redes inalámbricas y su impacto social. Aranjuez, julio 2005
- 61) Seminario Foro DINTEL. Transformando datos en decisiones. Madrid, March 2006.
- 62) Seminario Clausura Master en Dirección de Proceso de Negocio. El impacto de las TIC en la mejora de los procesos de Seguridad y Defensa. Universidad de Navarra. Pamplona, May 2006.
- 63) Seminario IMATI-Bocconi-Politecnico Milano. Bayesian Methods in presence of several decision makers. Milán, octubre 2006
- 64) Programa de promoción de la cultura científica y tecnológica 2006. Real Academia de Ciencias. Las Matemáticas de la Política. Segovia, noviembre 2006.
- 65) Programa de promoción de la cultura científica y tecnológica 2006. Real Academia de Ciencias. Las Matemáticas de la Política. Toledo, February 2007.
- 66) Programa de promoción de la cultura científica y tecnológica 2006. Real Academia de Ciencias. Las Matemáticas de la Política. Logroño, February 2007.

- 67) Seminario en la Universidad Carlos III de Madrid. Bayesian group decision support methods. Leganés, May 2007.
- 68) Ciclo de conferencias Ciencia para todos. Real Academia de Ciencias. Las matemáticas de la política. Madrid, March 2007.
- 69) Cursos de Summer de la Universidad Internacional Menéndez Pelayo. Complejidad social y nuevos paradigmas científicos: hacia la construcción de futuros deseables. Democracia electrónica: nuevos métodos para un mundo mejor. Santander, agosto 2007.
- 70) Mesa redonda: Las TIC y sus metodologías instrumentales de enseñanza y aprendizaje. Course de Summer UCM: Adaptación del Espacio Europeo de Educación Superior. San Lorenzo del Escorial, julio 2007
- 71) Seminario en Warwick University. Adversarial Risk Analysis. Coventry, junio 2008.
- 72) Course Summer de Universidad Miguel Hernández. Democracia participativa y grandes ciudades. De la participación a la e- participación. Torrevieja, September 2008.
- 73) Seminario Instituto de España. La Sociedad de la Información y el Conocimiento: Oportunidades y Retos. Ciberpolítica. Madrid, octubre 2008.
- 74) Seminario Fundación Instituto Universitario de Investigación Ortega y Gasset. La Participación Ciudadana en el Reequilibrio Social e Territorial de las Ciudades. TIC en presupuestos participativos. Madrid, julio 2009.
- 75) Mesa redonda sobre Edemocracia. Foro everis-Expansión. Barcelona, March 2009
- 76) Seminario Université Paris Dauphine. Adversarial risk analysis for counterterrorism modelling. París, May 2010.
- 77) VI Ciclo de Conferencias de divulgación científica. Ciencia para todos. Real Academia de Ciencias. Máquinas que perciben, sienten y deciden. Madrid, junio 2010.
- 78) Seminario en Campus Party. Aiosy 1: un robot que percibe, se emociona y toma decisiones. Valencia, junio 2010.
- 79) XIII Programa de promoción de la cultura científica y tecnológica. Real Academia de Ciencias. Máquinas que perciben, sienten y deciden. Madrid, February 2010.
- 80) 14º Programa de promoción de la cultura científica y tecnológica. Real Academia de Ciencias. Máquinas que perciben, sienten y deciden. Pozuelo de Alarcón, February 2011.
- 81) 14º Programa de promoción de la cultura científica y tecnológica. Real Academia de Ciencias. Máquinas que perciben, sienten y deciden. Oviedo, Abril 2011.
- 82) Seminario Real Academia de Ciencias. Tomando riesgos inteligentemente. Madrid, May 2011.
- 83) Programa cultural. Máquinas que perciben, sienten y deciden. Instituto Cervantes de Gibraltar, junio 2011.
- 84) 14º Programa de promoción de la cultura científica y tecnológica. Real Academia de Ciencias. Máquinas que perciben, sienten y deciden. Logroño, March 2012.
- 85) Semana de la Ciencia. De Bhopal a aznalcollar, pasando por el 11S: Introducción al análisis de riesgos. Aznalcollar. Madrid, noviembre 2011
- 86) Programa de promoción de la cultura científica y tecnológica. Real Academia de Ciencias. Sociedades de robots emocionales. Albacete, abril 2012.

- 87) Programa de promoción de la cultura científica y tecnológica. Real Academia de Ciencias. Sociedades de robots emocionales. Murcia, May 2012.
- 88) 15º Seminario RAC. Análisis de riesgos y cambio climático. Madrid, May 2012.
- 90) Seminario IE University. Adversarial risk analysis. Madrid, junio 2012.
- 91) Encuentro del Grupo de Decisión Multicriterio. Enfoque Bayesiano en Decisión Multicriterio. Zaragoza, September 2012.
- 92) Seminario Fundación Telefónica. Frente al Mar de Datos. Madrid, moviembre 2012.
- 93) Seminario en la Real Academia de Ciencias. Big Data. Madrid, May 2013.
- 94) Course de Summer de la Universidad de Castilla la Mancha. Aplicaciones de la estadística en la vida real. Modelos estadísticos para la seguridad y lucha contra el terrorismo. Ciudad Real, octubre 2013.
- 95) Seminario Universidade 11 Novembro. Modelos de lucha contra-terrorismo. Ruanda, Angola, September 2013.
- 96) Matemáticas para el Siglo XXI. Centenario del Colegio Mayor San Juan de Ribera. Valencia, May 2014.
- 97) From risk analysis to adversarial risk analysis: challenges in safety and security. Seminario de Estadística y probabilidad aplicada. ICMAT, Madrid, Spain, Madrid, October 16, 2014.
- 98) Adversarial Risk Analysis: Concepts, Methods and Applications. Finetti Risk Seminars. Bocconi Universitá, Milano, Italy, December 3, 2014.
- 99) Adversarial Risk Analysis: Concepts, Methods and Applications. Universidade de Coimbra, Portugal, February 27, 2015.
- 100) Cienca de Datos en Acción: Ayudando a diseñar un plan de seguridad operacional. Seminario de la Cátedra de Ciencia de Datos y Aprendizaje Automático. Universidad Autónoma de Madrid, Spain, May 28, 2015.
- 101) Análisis de riesgos adversarios: conceptos, modelos y retos. Summer Course Universidad Complutense. La Matemática como Pívot: Entre Ciencia y Tecnología. San Lorenzo del Escorial, Madrid, Spain, June 29 - July 3, 2015.
- 102) Methodologies and their applications. COST Action IS1304 “Expert Judgement in Health”, Chair. Malta, October 7-8, 2015.
- 103) A framework for aviation safety risk management. UPM Summer Course 2016: Laboratory of ideas for safety in aviation. LISA “Addressing aviation and ATM safety challenges”. UPM Summer School, Real Sitio de San Ildefonso La Granja - Segovia, Spain, July 11-14, 2016.
- 104) Affective decision making. Applications to social robotics and the treatment of autism. Mathematical approaches to brain structure and function in health and disease. From early childhood development to adulthood. CORBI Foundation. A Coruña, Spain, August 3, 2016. **David Ríos** and José Manuel del Río
- 105) Exploring science with low cost social robotics. AEMASE III A way towards International Science Centres, CESAME Ac Francaise Paris., France, October 3-4, 2017.
- 106) ICMAT Transfer strategy. 100xCiencia. Meeting of the Spanish Centres and Units of Excellence in research. Alicante, Spain, 2-3 November, 2017.

- 107) DATA SUMMIT 2017. Moderador. Corbi Foundation. A Coruña, Spain, June 19-20, 2017.
- 108) From risk analysis to adversarial risk analysis. Systems Analysis Laboratory, Aalto University School of Science, Aalto, Finland, 14 May 14 - June 1, 2018
- 109) Modelos para la Ciberseguridad. Universidad Salamanca, Spain, May 7, 2018
- 110) Affective Decision Making. Zaragoza University, April 2018.
- 111) Ciencia de Datos e Inteligencia Artificial para la Ciberseguridad. Analytics dentro de la transformación digital en empresas industriales. Bilbao, Sapin, March 6, 2018.
- 112) Uncertainty in science. Buenas Practicas Científicas. CSIC intro to research seminar. Madrid, Barcelona, Sevilla. Fall 2018.
- 113) Métodos Bayesianos y Big Data. Universidad de Las Palmas de Gran Canaria. February 8, 2019.
- 114) Artificial Intelligence: The Value of Data. Intelligence and Data in Security and Cybersecurity. Real Academia de Ingeniería, la Real Academia de Ciencias Exactas, Físicas y Naturales y la Real Academia Nacional de Medicina, Madrid. June 19, 2019
- 115) Matemáticas para un mundo más seguro: del análisis de riesgos al análisis de riesgos adversario. mathematics in action. Cycle of Divulgative Workshops. Universidad de Cantabria, Santander, June 18, 2015
- 116) Matemáticas para un mundo más seguro: del análisis de riesgos al análisis de riesgos adversario. 2014-15 Program. Seventeenth edition of the Program for the Promotion of Scientific and Technological Culture. Real Academia de Ciencias Exactas, Físicas y Naturales. Madrid, Spain, March 2015
- 117) ¿Amigos o enemigos? Robots sociales: Del revés. The Night of investigators. Universidad Autónoma de Madrid, September 25, 2015.
- 118) Modelos para la ciberseguridad. Twentieth edition of the Program for the Promotion of Scientific and Technological Culture. Real Academia de Ciencias Exactas, Físicas y Naturales, Alcorcón, Madrid, February 27, 2018.
- 119) Modelos para la ciberseguridad. Twentieth edition of the Program for the Promotion of Scientific and Technological Culture. Real Academia de Ciencias Exactas, Físicas y Naturales. Talavera de la Reina, Toledo, Spain, February 14, 2018.
- 120) Modelos para la ciberseguridad. Twentieth edition of the Program for the Promotion of Scientific and Technological Culture. Real Academia de Ciencias Exactas, Físicas y Naturales, Madrid, Spain, April 19, 2018.
- 121) De la teoría a la práctica: nuevos enfoques y sus aplicaciones. La innovación en metagalogías de análisis en inteligencia: retos y oportunidades. CNI – Real Instituto Elcano. Madrid, Spain, October 24, 2017.
- 122) Aprendizaje de máquina adversario. (Almost) everything about adversarial machine learning. Research Seminar. Universidad Politécnica de Madrid, Spain, October 12, 2019.
- 123) Mini-Symposium on Statistical Methods and Applications. Decision-analysis computations. Jack Baskin School of Engineering. Santiago de Compostela, March 2000.
- 124) Seminario New Models and Applicatitons of Bayesian Reasoning. Bayesian decision theory. Universidad Nacional a Distancia. Madrid, February 2001.

- 125) Course de Summer de la Universidad Complutense. E-democracia, retos y límites de las nuevas tecnologías para la acción, la participación y la representación política. El Escorial, agosto 2004
- 126) Primer Seminario Doctoral en aplicaciones y Transferencia de la Intreligencia Coumptacional. SEMATICA 2011. AISoy: Robots que sienten, perciben y deciden. Santiago de Compostela. September 2011.
- 127) Workshop sobre sector financiero, SILO: Science & Innovatin Link Office. Madrid, Spain, November 2, 2014
- 128) Empresa e Innovación. Hacia la Sociedad de la Imaginación: Innovaciones e Invenciones. Empresa e Innovacion. Fundación Vodafone. Cáceres, Spain, May 9, 2005.
- 129) Big Data. Aplicaciones de Data Science a Gestión de Riesgos en Seguridad Aérea. Summer Course Universidad de Alcalá de Henares: Big data: Tecnología y aplicaciones, Madrid, Spain, September 12-14, 2016.
- 130) Mesa redonda sobre Estrategia de Futuro de la Matemática Española en el Contexto Europeo. Red Estratégica de Matemáticas. ICMAT, Madrid. September 2019
- 131) Caso de exito. Presentacion del Programa de Sociedades Seguras H2020. CSIC-ICMAT, Madrid, December 2019
- 132) Luces y sombras del Big Data. Ciudad de la Ciencia. CSIC - FECYT. Barbastro, Huesca, Spain, February 27, 2020.
- 133) Adversarial Machine Learning: Perspectives From ARA. MORS DSAI CoP and INFORMS MAS Webinar on Adversarial Machine Learning. INFORMS Military and Security Society. August 26, 2020

13. GRANTS AND AWARDS RECEIVED

Grants

- 1) Grant CSIC Introduction to Research 9 months (April 1st, 1986-December 31st, 1986).
- 2) Grant CSIC Introduction to Research 1 year (January 1st, 1987- Decemberr 31st, 1987)
- 3) Grant Banco de España de Ampliación de Estudios (in Manchester). (Course 1987 - 1988)
- 4) Grant Banco de España de Ampliación de Estudios (in Leeds). (Course 1988-1989)
- 5) Grant Comunidad de Madrid to attend the YSSP'90. 1990
- 6) Grant Peccei for research at Institute for Applied Systems Analysis IIASA (3 months. 1991).
- 7) Grant MEC for stay at Duke University during the Course 92-93 (9 months.)
- 8) Grant Consiglio Nazionale delle Ricerche (CNR - Italy) for young foreign mathematicians (6 months, 1995)
- 9) Grant Consiglio Nazionale delle Ricerche (CNR - Italy) for young foreign mathematicians (6 months, 1997)
- 10) Grant Consiglio Nazionale delle Ricerche (CNR - Italy) for foreign senior researchers (2 weeks, 2001)
- 11) Grant Université Paris Dauphine for foreign senior researchers (4 weeks, 2010)

- 12) Grant Université Paris Dauphine for foreign senior researchers (4 weeks, 2012)
- 13) Grant Aalto University for foreign senior researchers (2 months, 2018)
- 14) Grant MEC Postgraduate training abroad (9 months, 1990)
- 15) Grant MEC *Salvador de Madariaga* for visit SAMSI. 2007
- 16) SAMSI support for visit SAMSI. 2019
- 17) COST support for CNR-IMATI visit from Sepetember 9th 2015 to October 28th 2015.

Award

- 1) Ramiro Melendreras Award of the Spanish Society of Operations Research and Statistics, for the best paper by authors under 30 years of age, 1986
- 2) Extraordinary Undergraduate Prize, 1987
- 3) National Undergraduate Prize, 1987
- 4) Peccei Award (Intern. Inst. Applied Systems Anal.) for Young Scientists, 1990
- 5) IV ESABE Award for Scientific and Technical Research, 1990
- 6) Universidad Politécnica de Madrid Award for Young Researchers, 1997
- 7) Wirsbo-URJC Award for Research, 2000
- 8) DMR Consulting Foundation Award. Decision Engineering Laboratory, 2002
- 9) Honorable Mention to the Strategic Plan for Information Technologies, Quality Award of the Community of Madrid, 2003
- 10) Honorable mention to the Data Protection Plan, European Awards for Best Practices in Data Protection, Data Protection Agency. Community of Madrid, 2006
- 11) Accésit Award 2007 Everis Foundation, 2007
- 12) Finalist DA Practice Award, INFORMS 2010.
- 13) Second prize OR for Development Award, IFORS.
- 14) Finalist DA Practice Award, INFORMS 2012.
- 15) Best Paper in Risk Analysis Award, SRA 2012.
- 16) Best Publication Award Decision Analysis Society, INFORMS 2013.
- 17) Best Entrepreneur Award 2013, Everis Foundation, 2013.
- 18) Peopleosft Award Best ICT Robot Aisoy solution, 2015.
- 19) FEI Innovative Researcher Award, 2016.
- 20) DeGroot ISBA Award 2018.
- 21) Finalist Edelman Award 2019.
- 22) 6 5-year teaching periods positively evaluated (1989-2019).
- 23) 5 6-year research periods positively evaluated (1988-1993, 1994-1999, 2000-2005, 2006 – 2011, 2012 – 2017)
- 24) 1 6-year transfer positively evaluated (1998 – 2008)

14. PhD SUPERVISED ANN PERSONNEL TRAINING

PhD supervised:

1. Jacinto Martín Jiménez. *Aportaciones a la Teoría de la Decisión*. Defense: The Technical University of Madrid (UPM). February 23, 1995.
2. Concha Bielza Lozoya. *Contribuciones al análisis de problemas supercomplejos de toma de decisiones*. Defense: The Technical University of Madrid (UPM). May 8, 1996.
3. Miguel Herrero Uceda. *Modelo de acceso probabilista en bases de datos deterministas*. Defense: The Technical University of Madrid (UPM). October 20, 2000.
4. Arminda Moreno Díaz. *Modelos Multivariantes para Variables Ordinales: Aplicaciones en Estudios de Calidad de Servicio*. Defense: The Technical University of Madrid (UPM). June 21, 2001.
5. Miguel Ángel Virto García. *Métodos Montecarlo en Análisis de Decisiones*. Defense: National Distance University (UNED). November 4, 2002
6. Jesús Palomo Martínez. *Bayesian Methods in Bidding Processes*. Defense: Rey Juan Carlos University (URJC). December 18, 2003. Finalist for the 2004 L.S. Savage Prize. Honourable Mention Award for Applications
7. Jesús María Ríos Aliaga. *Supporting Group Decisions through the Web: e-democracy and e-participatory budgets*. Defense: Rey Juan Carlos University (URJC). May 25, 2006
8. Eugenio Fernández Vicente. *UNiTIL. Modelo de gobierno y gestión de las TIC para las Universidades*. Defense: Rey Juan Carlos University (URJC). October 18, 2006
9. Carlos Grima Izquierdo. *A generic architecture for e-Government and e-Democracy: requirements, design and security risk analysis*. Defense: Rey Juan Carlos University (URJC). June 23, 2010
10. Alcides Simbo Neto. *Mejoras del Plan Energético para Angola*, Defense: Rey Juan Carlos University (URJC). November 11, 2011.
11. José María Lavín de la Cavada. *De la participación a la e-participación*, Defense: Rey Juan Carlos University (URJC). December 19, 2011.
12. Jean Marie Kiombo. *Modelo de gestión óptima multiobjetivo de la cuenca del río Kwanza*. Defense: Rey Juan Carlos University (URJC). July 5, 2012.
13. Gonzalo Arévalo Nieto. *Contributions to distributed innovation management environments*. Defense: Rey Juan Carlos University (URJC). September 27, 2013.
14. Eduardo Sánchez Ayra. *Risk Analysis and Safety Decision-Making in Commercial Air Transport Operations*. Defense: Rey Juan Carlos University (URJC). October 4, 2013
15. Javier Gómez Miguel. *Contribuciones metodológicas y tecnológicas a la elaboración de presupuestos participativos*, Defense: Rey Juan Carlos University (URJC). July 15, 2013.
16. César Alfaro Gimeno. *Una Arquitectura de Apoyo a la Participación Electrónica*. Defense: Rey Juan Carlos University (URJC). July 16, 2013.

17. Pablo Gómez Esteban. *Competition and cooperation in emotional robot societies*. Defense: Rey Juan Carlos University (URJC). March 27, 2014.
18. José Antonio Rubio Blanco. *Un marco para el Análisis de Riesgos en Ciberseguridad / A Framework for Cybersecurity Risk Analysis*. Defense: Rey Juan Carlos University (URJC). January 28, 2016.
19. Efraín Marcelo Pilamunga Poveda. *Modelos Bayesianos de Predicción y Gestión Tráfico./ Bayesian Traffic Prediction and Management Models*. Defense: Rey Juan Carlos University (URJC). January 16, 2016.
20. Milton Rodrigo Aldás Sánchez. *Modelo para la Expansión de la Capacidad de Tráfico / Capacity expansion problems for traffic amnagement*. Defense: Rey Juan Carlos University (URJC). February 3, 2016.
21. Jorge González-Ortega. *Contribuciones al Análisis de Riesgos Adversarios. Contributions to adversarial risk analysis*. Denfense: Complutense University of Madrid (UCM). November 29, 2018. Supported by Severo Ochoa program.
22. Aitor Couce Vieira. *Decision Models for Cybersecurity Risk Analysis*. Defense: Rey Juan Carlos University (URJC). June 9, 2019.
23. Roi Naveiro Flores. *Contribuciones a la Seguridad del Aprendizaje Automático / Contributions to the Security of Machine Learning*. Denfense: Complutense University of Madrid (UCM). November 5, 2020. Supported by FPI MINECO.
24. Si Liu. *Affective Decision Making for Social Robotic Agents*. Denfense: The Autonomus University of Madrid (UAM). December 16, 2020. Supported by La Caixa
25. Alberto Redondo Hernández. *Contributions to Supply Chain Cyber Risk Management Analytics*. Denfense: The Autonomus University of Madrid (UAM). December 18, 2020. Supported by PTA MINECO.
26. Victor Gallego Álcala. *Adversarial machine learning*. Defense: Submitted. Supported by FPI MINECO.

Doctoral theses in progress:

- 1) Bruno Flores Barrio (UCM) *Large scale forecasting models for retailing*. Exp. Summer 2022. Supported by CAM Industrial Doctorate.
- 2) Jose M. Camacho (UAM) Adversarial machine learning. Exp Summer 2024. Supported by Caixa Foundation.

Master's theses supervised

Master's Degree - Doctoral Program in Information Systems Engineering of the Universidad Rey Juan Carlos.

- 1) Manuel Calabuig Blesa. Methodology for preference modeling and problem solving. June 28th, 2011. (9.5)
- 2) Alejandro García Galindo. SIGUECV: application for the management and monitoring of the on-line courses of the Virtual Campus. May 28th, 2012. (9)
- 3) Alberto Redondo Hernández. Adaptation of the Dialog Manager chatscript to Spanish. June 30th, 2015. (9)

- 4) Juan Luis Santos Bartolomé. Novel Approaches Security To Information Systems. June 30th, 2015. (9)
- 5) Juan Luis Vicente Carro. Recommender Systems. June, 20th, 2012. (8)

Master's Degree - Doctorate Program in Decision Systems Engineering at Universidad Rey Juan Carlos

- 1) Javier Gómez Miguel. Participatory budgeting through the Web. Course 2007/08
- 2) Cesar Alfaro. Participatory budgeting through the Web. Course 2007/08
- 3) Jose Luis Castaño Cabrales. Decision Support Systems for the Kabylia Water Distribution Network. Course 2011/2012
- 4) Alberto Redondo Hernández. A model for planning a social robot. Course 2011/2012. (10)
- 5) Dolores Novillo Guijarro. A framework for risk analysis in ICT. Course 2011/2012
- 6) Encarnación Folgado Zúñiga. Study of automatic speaker recognition. Course 2011 / 2012
- 7) Juan Luis Vicente Carro. Recommender systems. Course 2011/2012
- 8) David Garrido Mayo. Games on a populous platform. Course 2012/2013.
- 9) Pablo Hernández-Coronado Quintero. AESA. Safer skies. Course 2012/2013
- 10) Esperanza Herrainz Monseco. AESA. Safer skies. Course 2012/2013
- 11) Verónica Elvira Olalla. AESA. Safer skies. Course 2012/2013
- 12) Ivan Garrido Mayo. Games on a populated platform. Course 2012/2013.
- 13) Luis Miguel de Feber Beltran. Robotic platform for experimentation in game theory. Course 2012/2013
- 14) Aitor Couece Vieia. An Adversarial Risk Analysis Model for Cybersecurity: A Case the Oli and Gas Industry. Course 2012/2013.
- 15) Pablo Villa Bravo. Screening methodology for civil aviation incident analysis. Course 2013/2014. (9)
- 16) Eduardo Gómez Quijano. Optimal protection of critical infrastructure with network topology. Course 2013/2014. (8.5)
- 17) Castor Álvarez Lorente. Screening methodology for civil aviation suscess analysis. Course 2013/2014. (9)

Final projects degree directed:

- 1) Javier Alvarez Suarez. A SAD based on sensitivity analysis. Computer Engineering. Course 1990-91. (9)
- 2) M. Ángel García de la Cruz. DIANA: Influence Diagrams, analysis. Computer Engineering. Course 1992-93. (10)
- 3) Jose Ignacio Martín Jimenez: Application of simulated cooling in sensitivity analysis in decision analysis, Computer Engineering. Course 1992-93. (10)

- 4) Sergio Fernández Rodríguez. Interactive methods for decision making under uncertainty. Computer Engineering. Course 1992-93. Outstanding (9)
- 5) Víctor Manuel García González. Robust Decision Analysis: Experimental Validation. Computer Engineering. Course 1993-94. (10)
- 6) Miguel Angel López. ROL, model-oriented simulation environment. Computer Engineering. Course 1993-94. (10)
- 7) Mauricio Farache Minguez. BAYRES. A reservoir management system. Prediction module. Computer Engineering. Course 1993-94. (10)
- 8) José Fuertes Andrade. BAYRES. A reservoir management system. Preference module. Computer Engineering. Course 1993-94. (10)
- 9) Elisa Pérez Aguilar. BAYRES. A reservoir management system. Optimization Module. Computer Engineering. Course 1993-94. (10)
- 10) José Javier García González. Monte Carlo methods based on Markov Chains. Computer Engineering. Course 1993-94. (8.5)
- 11) Sergio Merino Merino. Spatial Dispersion Measurements. Application to Electrical Consumption. Technical Engineering in Computer Management. Course 2000-01. (8,5)
- 12) Elena Santander Bruna. Departmental Management System. Technical Engineering in Computer Management. Course 2000-01. (8)
- 13) María Elena Fuertes García: Departmental Management System. Technical Engineering in Computer Management. Course 2000-01. (8,5)
- 14) Oscar Pecharromán Pérez. Carpooling System. Technical Engineering in Computer Management. Course 2001-02. (7,5)
- 15) Jose Migel Fernández Pizarro: Carpooling System. Technical Engineering in Computer Management. Course 2001-02. (7,5)
- 16) Saúl Grande Gallardo. A stock market prediction system with linear dynamic models. Computer Engineering. Course. 2002-03. (9)
- 17) José Antonio Rodriguez Viñas. Simulation of the restoration area of the Móstoles Campus of the URJC. Technical Engineering in Computer Management. Course 2002-03. (7.5)
- 18) Enrique Estevez Cerezo, IDS: Influence diagram solver. Computer Engineering. Course 2003-04. (7,5)
- 19) Ivan Garrido Mayo, Computer system for clinical analysis management with the Coulter ACT analyzer. Technical Engineering in Computer Management. Course 2003-04. (7,5)
- 20) Susana Rodriguez Alonso, Voton: An Online Voting System. Computer Engineering. Course 2003-04. (9)
- 21) Jose Antonio Rubio Balnco. Technical Engineer in Computer Systems. Course 2003-2004. (10)
- 22) Javier Gómez Miguel. Voting module for participatory budgets. Technical Engineer in Computer Systems. Course 2004-2005. (9,5)
- 23) David Mateos Murillo. Multicriteria decision support web system. Technical Engineer in Computer Systems. Course 2004-05. (9,5)

- 24) Ivan López Santiago. PARBUD, system to help in the formation of participatory budgets Computer Engineering. Course 2004-05. (10)
- 25) Francisco Pareja León. A precision module for a decision support system for reservoir management. Technical Engineer in Computer Management. Course 2004-05. (8)
- 26) Carlos Martínez Pérez. Electronic market with help to the negotiation. Engineer in Computer Science. Course 2004-05. (8,5)
- 27) Luis Peña Sanchez. Design and implementation of an n-gram model with application to the automatic extradition of Spanish collocations. Computer Science Engineer. Course 2004-05. (8,5)
- 28) Jorge González López. Decision tree resolution: an implementation in Java. Technical Engineer in Computer Systems. Course 2005-06. (7)
- 29) Alberto Torres López. Reliability of complex systems using reliability block diagrams. Computer Science Engineer. Course 2005-06. (9.5)
- 30) Jose Antonio Rubio Blanco. Contributions to the formalization of e-democracy through Web and XML technologies. Computer Science Engineer. Course 2006-07. (9)
- 31) Óscar Vega Díaz. Reliability analysis environment for Hardware/Software systems. Computer Science Engineer. Course 2006-07. (10)
- 32) Andrés Sanz Mollejo. Environment for reliability analysis of Hardware/Software systems. Computer Science Engineer. Course 2006-07. (10)
- 33) Javier Sendra Gutiérrez. An electronic market in support of auctions, multi-criteria auctions and negotiations. Computer Engineer. Course 2006-07. (9)
- 34) Miguel González Rodríguez. A system to help in the elaboration of participatory budgets. Computer Science Engineer. Course 2006-07. (10)
- 35) César Alfaro Gimeno. A generic electronic voting platform. Computer Science Engineer. Course 2006-07. (10)
- 36) Gonzalo Méndez Calzado: ZP, a web system for managing governing bodies (server side). Technical Engineer in Computer Management. Course 2006-07. (9)
- 37) Jaime Recio López: ZP, a web system for managing governing bodies (client side). Technical Engineer in Computer Management. Course 2006-07. (9)
- 38) Javier Gómez Miguel. A generic electronic voting platform. Computer Science Engineer. Course 2006-07. (10)
- 39) Raúl Blanco Parra. Preference assignment module. Technical Engineer in Computer Systems. Course 2007-08. (7)
- 40) Abel Zafra Sanz. URJC 2.0. Technical Engineer in Computer Systems. Course 2008-09. (9.5)
- 41) Hector González Martín Caro. Skites: a web platform for innovation management. Computer Science Engineer. Course 2009-10. (9)
- 42) Ivan Perez Castaño. Administration and configuration modules of an advanced administrative processing system in an e-administration platform. Technical Engineer in Computer Systems. Course 2007-08. (9.5)
- 43) Marta Salmerón. Document custody module in an e-administration platform. Technical Engineer in Computer Systems. Course 2007-08. (10)

- 44) Héctor González Martín Caro. Operation module of an advanced administrative processing system in an e-administration platform. Technical Engineer in Computer Systems. Course 2007-08. (10)
- 45) Cristina Merino Ramos. A document management system for the URJC. Computer Science Engineer. Course 2008-09. (10)
- 46) David Muñoz Martín. Contributions to the development of an e-participatory budgeting support system. Technical Engineer in Computer Management. Course 2008-09. (8)
- 47) Fernando Morales Roselló. A management system for Erasmus/Munde programs. Technical Engineer in Computer Management. Course 2008-09. (9)
- 48) Jose Antonio Almena Muñoz. Study of the ICT Risk Analysis through a probabilistic vision Computer Engineering. Course 2010-11. (9)
- 49) Guillermo Contreras Alcalde. Virtual Classroom: License Manager. Computer Science Engineer. Course 2009-10. (9)
- 50) Oscar Pascual Núñez. Development of a XLM language for electronic participation. Computer Systems Technician. Course 2009-10. (6)
- 51) Gema Gutierrez Peña. Expansion of SIGUECV: follow-up consultation for teachers and coordinators online and management of certificates and reports. Technical Engineer in Computer Systems. Course 2011-12. (8,5)

Grantees hosted

- 1) Yolanda Albaga Lozano. Collaboration Grant. UPM. From January 1st, 1998 to December 31st, 1998
- 2) Javi Gómez Miguel. FPI. MINECO. From September 1st, 2009 to August 31st, 2013.
- 3) Antonio Menchero Fernández. FPI. CAM. From October 1st, 1998 to September 30th, 1999.
- 4) Raquel Montes Díez. Postdoctoral. CAM. From December 1st, 2001 to November 30th, 2002.
- 5) Roman Efremov. Postdoctoral MEC. From October 1st, 2004 to March 31st, 2006.
- 6) Roi Naverio Flores. FPU. MICIU. From October 31st, 2016 to October 30th, 2020.
- 7) Victor Gallego Alcalá. FPU. MICIU. From October 18th, 2017 to October 17th, 2021.
- 8) Jared Aurentz. La Caixa Postdoctoral Junior Leader Incoming. From October 1st, 2018 to September 30, 2021.
- 9) Si Liu. La Caixa Predoctoral INPhINIT Incoming. From October 1st, 2017 to September 30th, 2021.
- 10) Jose M. Camacho Predoctoral INPhINIT Incoming. February 1st 2022 to January 30th 2025.

Personnel training contracts with David Ríos Insua as Principal Investigator.

- 1) Grant to industrial doctorate in the Community of Madrid, corresponding to the 2018 call. IND2018/TIC-9901. Funding Entity: Community of Madrid. Participants: ICMAT,

Aeronautical Energy Engineering Services S.L. Beneficiary: Bruno Flores Barrio. Budget for ICMAT: 60.000 €. From February 25th, 2019, to February 24th, 2022.

- 2) Contract of Incorporation to the Spanish System of Science, Technology and Innovation for the promotion of youth employment and implementation of the Youth Guarantee of the Community of Madrid. PEJD-2018-POST/TIC-9375. Funding Entity: Community of Madrid. Beneficiary: David Gordo. From March 16th, 2019, to March 15th, 2020.

Grant and/or contract personnel in charge of projects with David Ríos Insua as principal investigator.

- 1) RAMses. Banco Integrado de implementación de fiabilidad, disponibilidad y safety de sistemas:
- Luis Miguel García Olmos, from March 1st to December 31st, 2005.
 - Miguel Ángel González Rodríguez, from January 1st, 2005, to July 1st, 2005.
 - Iván López Santiago, from March 1st to December 31st, 2005.
 - Javier Martín Martín, from April 1st, 2005, to December 31st, 2005.
 - Juan Francisco Morcillo Atienza, from January 15th, 2005, to December 31st, 2005.
 - Juan Vicente Ruiz Carrillo, from February 1st, 2005, to December 31st, 2005.
 - Belén Saenz Rubio, from February 1st, 2005, to December 31st, 2005.
 - Carla Laura Tello Chinchayán, from January 1st, 2005, to December 31st, 2005.
- 2) Creación del laboratorio de investigación interdisciplinar en ingeniería de la decisión:
- Karla María Meléndez Aparicio, from April 1st, 2009, to July 31st, 2009.
 - Kiombo Jean Marie, from April 1st, 2009, to July 31st, 2009.
 - Miguel Ángel González Rodríguez, from February 1st, 2006, to June 30th, 2006.
 - Dolores San Isidro González, from May 14th, 2007, to September 13th, 2007.
 - María Pérez – Bustamante Yabar, from May 14th, 2007, to September 13th, 2007.
 - Alcides Romutodo Neto Simbo, from February 15th, 2010, to September 14th, 2010.
- 3) eGOVeris: Plataforma Administración Electrónica:
- Cesar Alfaro Gimeno, from November 1st, 2007, to February 20th, 2008.
 - Alcides Romualdo Neto Simbo, from November 1st, 2007, to February 20th, 2008.
 - Hector González Martín Caro, from November 1st, 2007, to February 20th, 2008.
 - Javier Gómez Miguel, from November 1st, 2007, to February 20th, 2008.
 - Efrén Gómez from Casar, from November 1st, 2007, to February 20th, 2008.
 - Jesús María Ríos Aliaga, from November 1st, 2007, to February 20th, 2008.
 - Iván Pérez Castaño, from November 1st, 2007, to February 20th, 2008.

- Emilio José Nombela Hernández, from November 1st, 2007, to February 20th, 2008.

4) AGORANET:

- Jesús Llorente Márquez, from March 1st, 2011, to September 30th, 2011.
- Javier Francisco Razuri, from November 1st, 2012, to December 31st, 2012.
- Pablo Gómez Esteban, from November 15th, 2012, to December 31st, 2011.
- Cesar Alfaro Gimeno, from September 1st, 2011, to December 31st, 2012.
- Juan Carlos Redondo Lebrero, from March 1st, 2011, to September 30th, 2011.
- Andres Redchuck Cisterna, from September 1st, 2011, to December 31st, 2012.
- Gonzalo Quevedo García, from November 1st, 2012, to November 30th, 2012.
- Emilio López Cano, from March 1st, 2011, to March 31st, 2014.
- Diego Ruiz Aguado, from November 1st, 2012, to November 30th, 2012.

5) My University: Decision making for a united higher education

- Javier Francisco Guerrero Razuri, from May 3rd, 2011, to September 30th, 2012.

6) eMercurio. Desarrollo de un Sistema integral de contratación pública electrónica

- Jairo González Pérez, from November 1st, 2008, to December 31st, 2008.
- David Muñoz Martínez, from November 1st, 2008, to February 28th, 2009.
- Miguel Angel Maldonado Agramente, from November 1st, 2008, to December 31st, 2008.
- Diego Guerra Álvarez, from November 1st, 2008, to February 28th, 2009.
- Alcides Romualdo Neto Simbo, from November 1st, 2008, to February 28th, 2009.
- Regis Roudil, from November 1st, 2008, to February 28th, 2009.

7) E-democracia CM. Conceptos y sistemas de apoyo a la democracia electrónica.

- Roman Efremov, from February 1st, 2007, to Agoust 15th, 2008.
- Marta Sanz González, from June 31st, 2006, to 31st December 2009.

8) RIESGOS-CM. Riesgos, Análisis, Gestión y aplicaciones

- Jose María Lavín de la Cavada, from November 1st, 2011, to 21st December 2011.
- Marta Sanz González, from January 27th, 2010, to 31st December 2013.
- Javier Cano Montero, from November 1st, 2013, to 31st December 2013.

9) RIMAS

- Javier Gómez Miguel, from June 1st, 2014, to May 30th, 2016.
- César Alfaro Gimeno, from June 1st, 2014, to May 30th, 2016.

10) [AXA-ICMAT. Adversarial Risk Analysis](#)

- Si Liu, from November 1st, 2016, to November 31st, 2017.
- Pablo Suarez García, from November 1st, 2016, to May 31st, 2017
- Marta Sanz González, from September 16th, 2018, to Agoust 31st, 2022.
- Cesar Guevara, from July 16th, 2021, to Agoust 31st, 2022.

11) [CYBECO: Supporting Cyberinsurance from a Behavioural Choice Perspective](#)

- Aitor Couce Viera, from June 16th, 2017, to April 30th, 2019.
- Ernesto Nungesser Luengo, from June 16th, 2018, to April 30th, 2019.

12) [SecRating: Plataforma para el cálculo de ratings de ciberseguridad y gestión del ciber riesgo de proveedores](#)

- Ernesto Miguel Nungesser Luengo, from May 1st, 2019, to September 30th, 2019.
- Alex Kosgodagan, from March 16th, 2019, to June 30th, 2020.
- Jorge González Ortega, from December 1st, 2019, to January 14th, 2019.
- David Gordo Gómez, from April 16th, 2020, to June 30th, 2020.
- Adrian Martínez, from January 16th, 2020, to June 30th, 2020
- Alberto Torres Barrán, from February 16th, 2020, to July 31st, 2020.
- Alberto Redondo Hernández, from February 16th, 2020, to September 30th, 2020.
- Victor Jiménez, from May 1st, 2020, to June 30th, 2020

13) [Trustonomy. Building Acceptance and Trust in Autonomous Mobility](#)

- Roi Naveiro Flores, from February 16th, 2021, to April 30th, 2022.

14) [AMALFI. Adversarial Machine Learning: Methods, Computations and Applications to Malware, Fake News and Autonomous Vehicles](#)

- Jose Manuel Camacho Rodríguez, from February 16th, 2021, to April 30th, 2022.

15) [CAM Industrial Doctorate](#)

- Daniel García Rasines, from April 14th, 2021, to February 28th, 2022.

15. OTHER MERITS

Merit-based exemption from the requirements to apply for the position of Full Professor in Spain (November 25, 1994).

Participation in societies:

- Full elected member of the Operations Research Society of America (now INFORMS).
- Elected member of the International Statistical Institute (ISI).
- Member of the International Society of Bayesian Analysis
- Member of the Board of Directors of the International Society of Bayesian Analysis. (1998)
- Member of the Royal Academy of Sciences:
 - Treasurer of the RAC (2016-2019).
 - Vice-Secretary General of the RAC (2015-2016).
 - Member of the Commission on Scientific Terminology of the RAC (2015 - present).
 - Secretary of the International Relations Commissions of the RAC.
 - Representative of the RAC in the European Academies Science Advisory Council (EASAC).
 - Representative of the RAC in the European network of academies ALLEA.
 - Representative of the RAC in the Consejo Superior de Estadística de España (Spanish Higher Council of Statistics).
- Member of the External Scientific Committee of the Institute for Advanced Scientific Computing (ICCAEX).
- Board of Trustees IMDEA Software.
- Founder CorBi Foundation

Participation in journals

- UPM representative in SEIO bulletin
- Associate Editor of Journal of Multicriteria Decision Analysis. (2000-2008)
- Associate Editor of Journal of Computational and Graphical Statistics (1998-2002).
- Associate Editor of Top. (1998-2006)
- Member of the RACSAM Editorial Committee. (2008-2018).
- Editor in Chief of RACSAM since 2019.
- Associate Editor Decision Analysis. (2008-2018)
- Associate Editor International Transactions in Operational Research (2013-2017).
- Associate Editor EURO Journal Decision Processes (2014-today).

- Associate Editor datospersonales.org. (2004-2011)
- Associate Editor ISBA Newsletter (1999-2001).
- Special Guest Editor Sensitivity analysis, JMCDA.
- Special Editor Electronic Democracy, GDN.
- Special Editor Multicriteria negotiations, GDN.
- Special guest editor Robustness, JMCDA.
- Special guest editor, IJSS.
- Guest Editor Policy Analytics, Annals of OR.
- Special Guest Editor GDRR, ASMBI.

Evaluator

- Swiss National Science Foundation (FNSNF)
- University of Essex
- European Science Foundation (ESF)
- Agency for Quality Assurance, Accreditation and Foresight of the Universities of Madrid (ACAP)
- National Science Foundation, EEUU (NSF)
- Fundation BBVA.

Member of the Selection Committee of the Thematic Area of Service Technologies for the Information Society. ANEP

Organization of congresses and other meetings

1. Member of Scientific Committee of Second international symposium on Sensitivity analysis of model output. Symposium on theory and applications of sensitivity analysis of model output in computer simulation. SAMO'98. Venecia, April 19-22, 1998.
2. Member of Organizing Committee of Workshop on Decision Analysis Applications. Real Academia de Ciencias Exactas, Físicas y Naturales. Madrid, Spain, July 11-12, 1997.
3. Member of Organizing Committee of Workshop on Bayesian Nonparametrics. Belgirate, Italy, July 17-19, 1997.
4. Member of Organizing Committee of Workshop on Bayesian Analysis of Stochastic Processes. (BIPS 1). Real Academia de Ciencias Exactas, Físicas y Naturales. Madrid, Spain, June 5-8, 1998.
5. Member of Organizing Committee of Real Sociedad Matemática Española Congress. RSME Complutense University, Madrid, Spain, January 27-29, 2000.
6. Member of Scientific Committee of 4th International Meeting of Statistics in the Basque Country. (IMSIBAC IV). País Vasco University, San Sebastian, Spain, August 4-6, 1992.

7. Member of Program committee of Third International Conference on Algorithmic Decision Theory (ADT 2013). Universit libre de Bruxelles, Bruselas, Novemver 13-15, 2013
8. Member of Program committee of 3rd International Symposium on Imprecise Probabilities and Their Applications (ISIPTA '03). University of Lugano, Italy, July 14-17, 2003.
9. Member of Program committee of 4th International Symposium on Imprecise Probabilities and Their Applications (ISIPTA'05). Carnegie Mellon University, Pittsburgh, PA, USA, 29 September 29 – October 1, 1991.
10. Member of Program committee of 5th International Symposium on Imprecise Probabilities and Their Applications (ISIPTA '09). Prague, Czech Republic. July 2009.
11. Member of Program committee of 7th International Symposium on Imprecise Probabilities and Their Applications (ISIPTA '11). University of Innsbruck, Austria, July 25-28, 2011.
12. Member of Program committee of 23rd Mini EURO Conference.First International conference on Algorithmic Decision Theory. (ADT 2009). Venice, Italy, October 20-23, 2009
13. Member of Program committee of Multiple Participant Decision Making. (CMP'04). Prague, Czech Republic, May 12-14, 2004.
14. Member of Program committee of 15th Mini Euro Conference. Managing Uncertainly in Decision Support Models. (MUDSM 2004). Coimbra, Portugal, September 22-24, 2004.
15. Member of Program committee of 1st Workshop on Probabilistic Graphical Models. (PGM'02). Cuenca, Spain, November 6-8, 2002.
16. Member of Program committee of 2nd Workshop on Probabilistic Graphical Models. (PGM'04). Leiden, Netherlands, October 4-8, 2004.
17. Member of Program committee of 3rd Workshop on Probabilistic Graphical Models. (PGM'06). Prague, Czech Republic, September 12-15, 2006
18. Member of Program committee of 4th Workshop on Probabilistic Graphical Models. (PGM'08). Hirtshals, Denmark, September 17-19, 2008.
19. Member of Program committee of 5th Workshop on Probabilistic Graphical Models. (PGM'10). Helsinki, Finland, September 13-15, 2010.
20. Member of Program committee of 6th Workshop on Probabilistic Graphical Models. (PGM'12). Granada, Spain, September 19-21, 2012.
21. Member of Program committee of 7th Workshop on Probabilistic Graphical Models. (PGM'14). Utrecht, The Netherlands, September 17-19, 2014.
22. Member of Scientific Committee of Workshop “Metodos Bayesianos’14”. Madrid, November 6-7, 2014.
24. Organizing session Sensitivity Analisys in MCDM in 13th European Conference on Operational Research, The University of Strathclyde, Glasgow, Scotland, July 19-22, 1994.
25. Organizer of Workshop on Model Elaboration, Robustness and Sensitivity. Real Academia de Ciencias. Madrid, Spain, June 3, 1994.
26. Member of Scientific Committee of Symposium on theory and applications of sensitivity analysis of model output in computer simulation. (SAMO 2001). Madrid. Jun3 18-19, 2001.

27. Member of Scientific Committee of Workshop on Bayesian Analysis of Stochastic Processes (BIPS 1), Madrid, June 5-6, 1998.
28. Member of Scientific Committee of Bayesian Inference in Stochastic Processes. (BISP 3). La Manda, Murcia, Spain, May 15-17, 2003.
29. Member of Scientific Committee of Bayesian Inference in Stochastic Processes. (BISP 4). Villa Monastero, Varenna (LC), Italy, June, 2-4, 2005.
30. Member of Scientific Committee of Bayesian Inference in Stochastic Processes. (BISP 5). Valencia, Spain, June 14-16, 2007.
31. Member of Scientific Committee of Bayesian Inference in Stochastic Processes. (BISP 10). Milano, Italy, June 13-15, 2017. 80 participants.
32. Member of Scientific Committee of Bayesian Inference in Stochastic Processes. (BISP11). Madrid, Spain, June 12-14, 2019. 65 participants.
33. Member of Program committee of First International Workshop on Machine Learning, Forecasting and Optimizations. (MALFO'96). Madrid, Spain, July 9-12, 1996.
34. Director of Summer Course of Rey Juan Carlos University about Electronic Democracy, Aranjuez, Madrid, July 4-8, 2005.
35. Member of Scientific Committee of TED 06-Towards e-Democracy: Participation, Deliberation, Communities. Universit di Mantova, Italy, October 4-6, 2006.
36. Member of Scientific Committee of International Conference Group Decision and Negotiation. (GDN 2005). Vienna, Austria, July 10-13, 2005.
37. Member of Scientific Committee of International Conference Group Decision and Negotiation. (GDN 2006). Karlsruhe, Germany, June 25-28, 2006.
38. Member of Scientific Committee of International Conference Group Decision and Negotiation. (GDN 2007). Montreal, Canadá, June 2007.
39. Member of Scientific Committee of International Conference Group Decision and Negotiation. (GDN 2008). Coimbra, Portugal, June 17-20, 2008.
40. Coordinator of Simposium Internacional “El Legado de Alan Turing”. Fundación Areces. Madrid, October 23-24, 2012.
41. Member of Scientific Committee of Interface Risk: Reality 2008. Duke University, Durham, NC, USA, May 21-24, 2008
42. Chair in session of Symposium on Computational Statistics. COMPSAT96. Barcelona, Spain, August 30, 1996.
43. Chair in a session of 45th of NBER-NSF Seminar on Bayesian Inference in Econometrics and Statistics. Duke University, Durham, NC, USA, November 13-14, 1992.
44. Organizer of ESOF 2008 Workshop, Barcelona, Spain, July 18-22, 2008.
45. Organizer of 25th Mini-EURO Conference Uncertainty and Robustness in Planning and Decision Making (URPDM 2010), Coimbra, Portugal, April 15-17, 2010.
46. Member of Organizing Committee of The 10th AIMS Conference on Dynamical Systems Differential Equations and Applications, Madrid, Spain, July 7-11, 2014.
47. Member of Organizing Committee of 3th International Conference on Electronic Voting: Verifying the Vote (eVOTE 2008), Bregenz, Austria, August 6-9, 2008.

48. Member of Organizing Committee of 6th International Conference on Electronic Voting: Verifying the Vote (eVOTE 2014), Bregenz, Austria, October 29-21, 2014.
49. Member of Organizing Committee of 4th International Conference on Electronic Voting: Verifying the Vote (eVOTE 2010), Bregenz, Austria, July 21-24, 2010.
50. Organizer of ESF-COST Early Stage Researcher Training School on Expert Judgement. Madrid, Spain, April 15-17, 2015. 6 lecturers and 29 students.
51. Organizer of ESF-COST Workshop on Geographical and Adversarial Uncertainty. Madrid, Spain, April 12-15. 46 participants.
52. Member of Organizing Committee of Math-in Meeting. Fall 2016. 60 participants.
53. Organizer and Member of Organizing Committee of Twenty-Fifth Annual Conference on Neural Information Processing Systems (NIPS 2011). 2nd. Workshop on Decision Making with multiple imperfect Decision Makers. Granada, Spain, December 16, 2011.
54. Member of Organizing Committee of The 30th Annual Conference on Neural Information Processing Systems. (NIPS 2016) Workshop on Imperfect Decision Making. Barcelona, Spain, December 5-10, 2016. 40 participants.
55. Organizer and Member of Scientific Committee of 5th Symposium on Games and Decisions Reliability and Risk. GDRR 5. Madrid, Spain, June 7- 9, 2017. 60 participants.
56. Member of Steering Committee of Centres for Education in Science for Africa, the Mediterranean and Europe - African European Mediterranean Academies for Science Education". CESAME-AEMASE. Partis, France, October 29, 2018. 80 participants.
57. Mentor of the Young Behavioral OR. Real Academia de Ciencias. Madrid, Spain, July 17, 2018. 15 participants.
58. Academies Organising Committee of ALLEA and Royal Society: Data enabled society. London, UK, June 2019. 60 participants.
59. Organizer and Member of Scientific Committee of Lorentz Seminar on Cyber Insurance 2019, Leiden. March 25-29, 2019. 62 participants
60. Member of Program Committee of 6th Games and Decisions in Reliability and Risk. (GDRR 2019). Washington, USA, May 29-31, 2019. 60 participants.
61. Member of Scientific Committee of Advances in Decision Analysis 2019, (ADA 2019) Milano, Italy, June 19-21, 2019. 150 participants.
62. Member of Organizing Committee of Games and Decisions in Reliability and Risk. Openning Workshop. SAMSI, Durham, NC, USA, August 5-9, 2019. 70 participants.
63. Member of Scientific Advisory Committee of Young Business and Industrial Statisticians Workshop on Recent Advances in Data Science and Business Analytics. (YSBIS 2019). Istanbul, Turkey, September 25-28, 2019.
64. Cordinator of SAMSI 2019-2020 Program on Games, Decisions, Risk and Reliability. Raleigh. 2019 – 2020.
65. Member of International Advisory Committee of ISBA Regional Meeting and International Workshop/Conference on Bayesian Theory and Applications (IWCBTA). Vanarasi, India, January 6-10, 2013.
66. General Chair and Member of Scientific Committee of VRTUOSI. 1st International Workshop on Teaching Decision Sciences and Technologies. Budapest. February 9-10, 2012.

67. Member of Scientific Committee of Bayesian Inference in Stochastic Processes 2021. (BISP 12). Virtual. May 27-28, 2021. 60 participants.
68. Program co-chairs and Program committee of 6th Algorithmic Decision Theory Conference. (ADT 21). Toulouse, France, November 3-5, 2021
69. Inaugural lecture at Royal Academy of Sciences

University and academic management

- Coordinator of Experimental Sciences and Technology. URJC. From October 1st, 1998, to March 1st, 1999.
- Director of the Department of Experimental Sciences, Social Sciences and Humanities. URJC. From April 1st, 1998, to June 30th, 2002.
- Vice Rector of International Relations, Private Degrees and New Technologies. URJC. From June 25th, 2002, to June 6th, 2003.
- Vice Rector of International Relations, New Technologies and IT Promotion. URJC. From June 7th, 2003, to February 2nd, 2006.
- Vice Rector of International Relations, New Technologies and IT Promotion. URJC. From February 3rd, 2006, to February 19th, 2009.
- Director of the Official Master in Decision Engineering (2008/2009 - 2009/2010).
- Director Master in Decision Sciences (2004 - 2005 - 2006 - 2007).
- Director Expert in 6 sigma
- Coordinator of the Program of R&D activities in Technologies 2005 - 2008: "Concepts and support systems for electronic democracy". Community of Madrid
- Coordinator of the Program of R&D activities in Technologies 2010 - 2014: "Risks, Analysis, Management and Applications". Community of Madrid