

Curriculum Vitae

Pr. Dr. Raymond Bisdorff

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Functions (present and past)

- Full Professor at the University of Luxembourg (2003 -)
- Coordinator of the Applied Mathematics Unit (2005 - 2007)
- Vice-president of the Scientific Consulting Commission of the University of Luxembourg (2005 -)
- Dean of the Faculty of Law, Economics and Finance (2003-2004)
- Administrator of the Luxembourg University Centre (2002-2003)
- Head of the Business and Computing Science Department (2002-2003)
- Professor at the Luxembourg University Centre (1995-2003)
- Head of Research Unit *Statistics and Decision* (STADE)
Public Research Centre - Gabriel-Lippmann (1993-2000)

Honors and Awards

- Honour diploma (2005) from [HELORS](#), the *Hellenic Operational Research Society*, for chairing the international Programme Committee of the XXth EURO'2004 Conference, Island of Rhodes, July 4-7, 2004.
- Visiting professor (academic year 2005-2006) at [LAMSADE](#), *Laboratoire d'Analyse et de Modélisation de Systèmes d'aide à la Décision*, [University Paris-Dauphine](#).
- Honourable collaborator (1996 - 2005) of the [University of Liège](#) (Belgium) on behalf of the *Institute of Mathematics* of the [Faculty of Sciences](#).
- NATO Graduate Degree Apprenticeship in Systems Science Grant (1975-1978)

International functions (present and past)

- National representative in the COST Action IC0602 *Algorithmic Decision Theory*.

- President of the Belgian OR Society, [ORBEL](#) (a.k.a. Sogesci-B.V.W.B.)
- Vice-president of the *International Federation of Operational Research Societies* ([IFORS](#)) representing [EURO](#), the Association of European Operational Research Societies (2005 - 2007)
- Vice-president of the Association of European Operational Research Societies [EURO](#) (1997-2000)
- Chair of the Organisation Committee of the 14th Mini EURO Conference [HCP'2003](#), Luxembourg, May 5-7, 2003
- Member of the Programme Committee of the joint [EURO/INFORMS Conference](#), Istanbul, July 6 - 10, 2003
- Chair of the Programme Committee of the [20th EURO Conference](#), Island of Rhodes, Greece, July 4-7, 2004
- Member of the Programme Committee of the [EURO 2006](#) Conference, University of Iceland, Reykjavik, Iceland, July 2-5, 2006

Education

- Business Administration (LBA), Université de Liège 1975
- Methods and Models of Scientific Management (D.E.A./MScBA), Université Paris-Dauphine 1976
- Operations Research (Ph.D. 3rd c.), Université Paris-Dauphine 1981
- Management Sciences (Ph.D.), Université de Liège 2001

Teaching

- Mathematics for Computer Scientists
- Operational Research and Decision Aid
- Statistics and Probability

Current research topics

- Multiple criteria decision aid (MCDA) methodology
- Rubis best choice method
- MCDA web services and XML encoding standard XMCD
- Bipolar-valued digraphs
- Random outranking digraphs

Actual and recent Ph. D. students

- Marco Merens (external supervisor for the Open University, UK)
- Patrick Meyer (co-direction with Prof. Marc Pirlot, FPMs, BE)
- Claude Lamboray (co-direction with Pr. Philippe Vincke, ULB, BE)
- Aimé Tanonkou (co-direction with Dr. Xiaolan XIE, INRIA Lorraine, FR)

Scientific Edition

- Guest editor for feature clusters in the European Journal of Operational Research EJOR

Recent publications

R. Bisdorff, P. Meyer and M. Roubens (2008). RUBIS: a bipolar-valued outranking method for the choice problem. *4OR, A Quarterly Journal of Operations Research*, Springer-Verlag, Volume 6 Number 2 pp. 143-165. (Online) Electronic version: [DOI: 10.1007/s10288-007-0045-5](https://doi.org/10.1007/s10288-007-0045-5) (downloadable preliminary version [PDF file 271.5Kb](#)).

R. Bisdorff, P. Meyer and Y. Siskos (2008). OR and the management of electronic services. EURO'2004 EJOR Cluster, *European Journal of Operational Research*, vol. 187 (3) 1293-1519.

R. Bisdorff, G. Lundberg and J.-L. Marichal (guest editors)(2007), Human Centred Processes: Toward a Naturalistic Decision Making Paradigm. Feature Cluster, *European Journal of Operational Research*, Volume 177, Issue 3, 16 March 2007, Pages 1313-1519.

R. Bisdorff and G. Lundberg (2007), Human centred processes: *Toward a naturalistic decision making paradigm*. Editorial for the feature cluster cited above. *European Journal of Operational Research*, Volume 177, Issue 3, 16 March 2007, Pages 1313-1316. (Online) Electronic version: [DOI:10.1016/j.ejor.2005.04.004](https://doi.org/10.1016/j.ejor.2005.04.004)

P. Meyer and R. Bisdorff (2007), Exploitation of a bipolar-valued outranking relation for the choice of k best alternatives. In Proceedings of FRANCORO V / ROADEF 2007: *Conférence scientifique conjointe en Recherche Opérationnelle et Aide à la Décision*, Grenoble, France, 20 - 23 February 2007, pp. 193 - 206.

R. Bisdorff (2006). *On enumerating the kernels in a bipolar-valued digraph*. Annales du Lamsade 6, Octobre 2006, pp. 1 - 38. Université Paris-Dauphine. ISSN 1762-455X

R. Bisdorff, M. Pirlot and M. Roubens (2006). Choices and kernels from bipolar valued digraphs. *European Journal of Operational Research*, 175 (2006) 155-170. (Online) Electronic version: [DOI:10.1016/j.ejor.2005.05.004](https://doi.org/10.1016/j.ejor.2005.05.004)

R. Bisdorff (2004). Concordant Outranking with multiple criteria of ordinal significance. *4OR, Quarterly Journal of the Belgian, French and Italian Operations Research Societies*, Springer-Verlag, Issue: Volume 2, Number 4, December 2004, Pages: 293 - 308. [ISSN: 1619-4500 (Paper) 1614-2411 (Online)] Electronic version: [DOI: 10.1007/s10288-004-0053-7](https://doi.org/10.1007/s10288-004-0053-7)

R. Bisdorff and M. Roubens (2004). Le temps de noyaux Dans J. Bair et V. Henry (ed.), *Regards croisés sur les méthodes quantitatives de gestion*. Les Éditions de l'Université de Liège, Liège, 2004, pp. 41-54

R. Bisdorff and M. Roubens (2004), Choice procedures in pairwise comparison multiple-attribute decision making methods. In R. Berghammer, B. Möller, G. Struth (ed.), *Relational and Kleene-Algebraic Methods in Computer Science: 7th International Seminar on Relational Methods in Computer Science and 2nd International Workshop on Applications of Kleene Algebra*, Bad Malente, Germany, May 12-17, 2003. Lecture Notes in

Computer Science, Springer-Verlag Heidelberg, Volume 3051/2004, ISBN: 3-540-22145-X, pp 1-7.

R. Bisdorff (2004), On a natural fuzzification of Boolean logic, in Erich Peter Klement and Endre Pap (editors), *Proceedings of the 25th Linz Seminar on Fuzzy Set Theory, Mathematics of Fuzzy Systems*. Bildungszentrum St. Magdalena, Linz (Austria), February 2004. pp. 20-26

R. Bisdorff (Editor) (2003), *Human Centred Processes: Distributed decision making and man-machine cooperation*, Proceedings of the 14th Mini-EURO Conference HCP'2003, May 2003, Centre Universitaire, Luxembourg, 309 p.

R. Bisdorff (2002), Electre like clustering from a pairwise fuzzy proximity index, *European Journal of Operational Research* EJOR, Vol. 138/2, pp. 320-331

R. Bisdorff (2002), Logical Foundation of Multicriteria Preference Aggregation. Essay in *Aiding Decisions with Multiple Criteria*, D. Bouyssou et al. (editors), Kluwer Academic Publishers, pp. 379-403

J.P. Barthélemy, R. Bisdorff and Ph. Lenca (Guest editors) (2002), Human Centered Processes. Feature Issue, *European Journal of Operational Research* EJOR, Volume 136, Number 2, January 16, 2002, pp. 231-352

J.P. Barthélemy, R. Bisdorff and G. Coppin (2002), Human Centered Processes and Decision Support Systems, *European Journal of Operational Research* EJOR, 136(2002) 231-252

R. Bisdorff (2000a), Logical foundation of fuzzy preferential systems with application to the electre decision aid methods, *Computers and Operations Research*, 27 (2000) 673-687

R. Bisdorff (2000b), Illustrative Benchmark Analyses, in H.-H. Bock and E. Diday (eds), *Analysis of Symbolic Data*, Springer Verlag Berlin-Heidelberg 2000, ISBN 3-540-66619-2, Chapter 13, 355-385

R. Bisdorff and E. Diday (2000c), Symbolic Data Analysis and the SODAS Software in Official Statistics, in H.A.L. Kiers, J.-P. Rasson et al. (eds), *Data Analysis, Classification, and Related Methods*, Springer Verlag Berlin-Heidelberg 2000, ISBN 3-540-67521-3, 401-408

R. Bisdorff (1999a), Bipolar ranking from pairwise fuzzy outrankings, *Belgian Journal of Operations Research, Statistics and Computer Science*, Vol. 37 (4) 97 379-387. (Postscript file (274.8 Kb) for downloading).

R. Bisdorff (1999b), Cognitive support methods for multi-criteria expert decision making, *European Journal of Operational Research*, 119 (1999) 379-387