




































## Publications and communications of Raymond Bisdorff











### Legend











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**Peer reviewed (verified by ORBi<sup>lu</sup>)** : the information is available in the ORBi<sup>lu</sup> journals database










-  Bisdorff, R. (2022). *Algorithmic Decision Making with Python Resources: From multicriteria performance records to decision algorithms via bipolar-valued outranking digraphs*. Heidelberg, Germany: Springer.  
<http://hdl.handle.net/10993/48296>  
*This book describes Python3 programming resources for implementing decision aiding algorithms in the context of a bipolar-valued outranking approach. These computing resources, made available under the name ...*
-  Bisdorff, R. (2020). *Digraph3 Python Software Collection*.  
<http://hdl.handle.net/10993/43505>  
*Python3 resources for implementing decision aid algorithms in the context of a bipolar-valued outranking approach. These computing resources are useful in the field of Algorithmic Decision Theory and more ...*
-  Bisdorff, R. (2020). *Algorithmic Decision Theory: Lecture notes and presentation slides* (Spring 2018, UUniversity of Luxembourg, MICS2 - 18 Algorithmic Decision Theory).  
<http://hdl.handle.net/10993/37933>  
*The objective of this course is to introduce students to ADT, a new interdisciplinary field at the intersection of decision theory, discrete mathematics, theoretical computer science and artificial ...*
-  Bisdorff, R. (2020). *Digraph3 Documentation: Advanced topics*.  
<http://hdl.handle.net/10993/42390>  
*In this part of the Digraph3 documentation, we provide an insight in computational enhancements one may get when working in a bipolar-valued epistemic logical framework, like easily coping with missing data ...*
-  Bisdorff, R. (2020, January 28). *Etudes universitaires sur le Luxembourg: Mots d'accueil*. Paper presented at Conférence interdisciplinaire d'Etudes sur le Luxembourg, Chambre des députés, Luxembourg.  
<http://hdl.handle.net/10993/43782>  
 Peer reviewed ✓  
*Concise historical review of 20 years of interdisciplinary Luxembourg studies before the foundation of the University of Luxembourg*
-  Bisdorff, R. (2019). *Tutorials for using the Digraph3 Python software collection*.  
<http://hdl.handle.net/10993/37886>  
*The documentation contains a set of tutorials introducing the main objects like digraphs, outranking digraphs and performance tableaux. There is also a tutorial provided on undirected graphs. Some tutorials ...*
-  Bisdorff, R. (2018). *Computational Statistics: Lecture notes and presentation slides* (University of Luxembourg, MICS2-26 Computational Statistics Course).  
<http://hdl.handle.net/10993/37870>  
*The objective of this course is to introduce the students to the R language and environment for statistical computing and graphics (a GNU project). In particular, the course proposes effective data handling ...*
-  Bisdorff, R. (2018, June 13). *UL HPC users'session: Mastering big data*. Paper presented at UL HPC School 2018, Belval, Luxembourg.  
<http://hdl.handle.net/10993/36270>  
*We illustrate in this presentation an optimized HPC implementation for outranking digraphs of huge orders, up to several millions of decision alternatives. The proposed outranking digraph model is based on a ...*
-  Bisdorff, R. (2017, May 03). *Algorithmic Decision Theory for solving complex decision problems*. Paper presented at Distinguished ILIAS Lecture IV, Luxembourg.  
<http://hdl.handle.net/10993/31196>  
*Today's decision makers in fields ranging from engineering to psychology, from medicine to economics and/or homeland security are faced with remarkable new technologies, huge amounts of information to help ...*

-  Bisdorff, R. (2016, November). *Computing linear rankings from trillions of pairwise outranking situations*. Paper presented at DA2PL'2016 From Multiple Criteria Decision Aid to Preference Learning, Paderborn, Germany.  
<http://hdl.handle.net/10993/28613>  
Peer reviewed ✓  
*We present in this paper a sparse HPC implementation for outranking digraphs of huge orders, up to several millions of decision alternatives. The proposed outranking digraph model is based on a quantiles ...*
-  Bisdorff, R. (2016, July 05). *A sparse outranking digraph model for HPC-ranking of big performance tableaux*. Paper presented at 28th European Conference on Operational Research, Poznan, Poland.  
<http://hdl.handle.net/10993/28393>  
Peer reviewed ✓  
*In the context of the ongoing GDRI-Algodec "Algorithmic Decision Theory", supported o.a. by the CNRS (France) and the FNR (Luxembourg), we develop multicriteria ranking HPC algorithms for large sets of ...*
-  Bisdorff, R. (2016, January). *Ranking big performance tableaux with multiple incommensurable criteria and missing data*. Paper presented at ORBEL 30 30th Belgian Conference on Operations Research, Louvain-la-Neuve, Belgium.  
<http://hdl.handle.net/10993/23921>  
Peer reviewed ✓
-  Wagle, S. S., Guzek, M., Bouvry, P., & Bisdorff, R. (2016). Comparisons of Heat Map and IFL Technique to Evaluate the Performance of Commercially Available Cloud Providers. In IEEE, *2016 IEEE 9th International Conference on Cloud Computing* (pp. 529-536). US: IEEE.  
<http://hdl.handle.net/10993/29528>  
Peer reviewed ✓  
*Cloud service providers (CSPs) offer different Service Level Agreements (SLAs) to the cloud users. Cloud Service Brokers (CSBs) provide multiple sets of alternatives to the cloud users according to users ...*
-  Wagle, S. S., Guzek, M., Bouvry, P., & Bisdorff, R. (2015). An Evaluation Model for Selecting Cloud Services from Commercially Available Cloud Providers. *2015 IEEE 7th International Conference on Cloud Computing Technology and Science (CloudCom)* (pp. 1-8).  
<http://hdl.handle.net/10993/24793>  
Peer reviewed ✓
-  Bisdorff, R. (2015, February 06). *On boosting Kohler's ranking-by-choosing rule with a quantiles preordering*. Paper presented at ORBEL 29 29th Belgian Conference on Operations Research, Antwerp, Belgium.  
<http://hdl.handle.net/10993/23911>  
Peer reviewed ✓
-  Bisdorff, R. (2015). The EURO 2004 best poster award: Choosing the best poster in a scientific conference. In R., Bisdorff, L. C., Dias, P., Meyer, V., Mousseau, & M., Pirlot, *Evaluation and Decision Models with Multiple Criteria : Case Studies* (pp. 117-165). Heidelberg, Germany: Springer.  
<http://hdl.handle.net/10993/23714>  
Peer reviewed ✓  
*The chapter concerns the attribution of the EURO Best Poster Award at the 20 th EURO Conference, held in Rhodes, July 2004. We present the historical decision making process leading to the selection of the ...*
-  Bisdorff, R., Dias, L. C., Meyer, P., Mousseau, V., & Pirlot, M. (2015). *Evaluation and decision models with multiple criteria: Case studies*. Springer.  
<http://hdl.handle.net/10993/23698>  
Bisdorff, R., Dias, L. C., Meyer, P., Mousseau, V., & Pirlot, M. (2015). *Introduction*. Springer.  
<http://hdl.handle.net/10993/23702>
-  Bisdorff, R. (2014, November 11). *On confident outrankings with multiple criteria of uncertain significance*. Paper presented at DA2PL'2014 From Multiple Criteria Decision Aid to Preference Learning, Paris, France.  
<http://hdl.handle.net/10993/23910>  
Peer reviewed ✓
-  Bisdorff, R. (2014, October 27). *On ranking-by-choosing with bipolar outranking digraphs of large orders*. Paper presented at Conference Graphs & Decisions, Luxembourg, Luxembourg.  
<http://hdl.handle.net/10993/23912>  
Peer reviewed ✓
-  Bisdorff, R. (2014, January 31). *On weakly ordering by choosing from valued pairwise outranking situations*. Paper presented at ORBEL 28 28th Belgian Conference on Operations Research, Mons, Belgium.  
<http://hdl.handle.net/10993/23913>  
Peer reviewed ✓

-  Bisdorff, R. (2014). *Documentation of the Digraph3 Python software resources*.  
<http://hdl.handle.net/10993/23919>
-  Bisdorff, R., Meyer, P., & Veneziano, T. (2014). Elicitation of criteria weights maximising the stability of pairwise outranking statements. *Journal of Multi-Criteria Decision Analysis*, 21(1-2), 113-124.  
<http://hdl.handle.net/10993/23701>  
Peer reviewed ✓
-  Bisdorff, R. (2013, August). *The Electre like outranking approach to MCDA*. Paper presented at 11th MCDA|J Summer School, Hamburg, Germany.  
<http://hdl.handle.net/10993/23915>
-  Bisdorff, R. (2013). On polarizing outranking relations with large performance differences. *Journal of Multi-Criteria Decision Analysis*, 20, 3-12.  
<http://hdl.handle.net/10993/245>  
Peer reviewed (verified by ORBi<sup>lu</sup>) ✓
-  Olteanu, A.-L., Meyer, P., & Bisdorff, R. (2013). Descriptive profiles for sets of alternatives in multiple criteria decision aid. *Lecture Notes in Computer Science*, 8176 LNAI, 285-296.  
<http://hdl.handle.net/10993/23715>  
Peer reviewed ✓
-  Bisdorff, R. (2012, December). *Algorithmic Decision Theory*. Paper presented at ICOCBA2012 International Conference on "Optimization, Computing and Business Analytics", Kolkata, India.  
<http://hdl.handle.net/10993/23916>
-  Bisdorff, R. (2012, November 15). *On measuring and testing the ordinal correlation between bipolar outranking relations*. Paper presented at DA2PL'2012 From Multiple Criteria Decision Aid to Preference Learning, Mons, Belgium.  
<http://hdl.handle.net/10993/23909>  
Peer reviewed ✓
-  Bisdorff, R. (2012, February). *On polarizing outranking relations with large performance differences*. Paper presented at ORBEL 26 26th Belgian Conference on Operations Research, Brussels, Belgium.  
<http://hdl.handle.net/10993/23918>  
Peer reviewed ✓
-  Bisdorff, R. (2011, June 21). *Aide à la Décision Concentrée sur l'Expertise Humaine*. Paper presented at Journée en hommage à Jean-Pierre Barthélemy, Paris, France.  
<http://hdl.handle.net/10993/23923>  
Peer reviewed ✓
-  Bisdorff, R. (2011, February 10). *K-Sorting with multiple ordinal criteria*. Paper presented at ORBEL 25 25th Belgian Conference on Operations Research, Ghent, Belgium.  
<http://hdl.handle.net/10993/23924>  
Peer reviewed ✓
-  Bisdorff, R. (2011). *Modern MCDA software: requirements and opportunities*. EURO working group on Multiple Criteria Decision Aid.  
<http://hdl.handle.net/10993/256>  
*Complexity, credibility and change are three inevitable issues we face in modern decision-making problems. Integrating modern software requirements like rich user interaction, distributed architecture, agile ...*
-  Bisdorff, R., Meyer, P., & Olteanu, A. (2011). A Clustering Approach using Weighted Similarity Majority Margins. *Advanced Data Mining and Applications ADMA, Beijing spring 2013* (pp. 15-28). Springer-Verlag.  
<http://hdl.handle.net/10993/285>  
Peer reviewed ✓  
*We propose a meta-heuristic for clustering objects that are described on multiple incommensurable attributes of nominal, ordinal and/or cardinal type. Our approach makes use of an innovative bipolar-valued ...*
-  Bisdorff, R. (2010, April 14). *On a bipolar foundation of the outranking concept*. Paper presented at URPDM-2010, 25th Mini EURO Conference Uncertainty and Robustness in Planning and Decision Making, Coimbra, Portugal.  
<http://hdl.handle.net/10993/23925>  
Peer reviewed ✓

-  Bisdorff, R. (2010). *On detecting and enumerating chordless circuits in a digraph*. Eprint/Working paper retrieved from <http://charles-sanders-peirce.uni.lu/bisdorff/documents/chordlessCircuits.pdf>.  
<http://hdl.handle.net/10993/23920>  
Peer reviewed ✓
-  Bisdorff, R. (2010, January 28). *Enumerating chordless circuits in directed graphs*. Paper presented at ORBEL 24 24th Belgian Conference on Operations Research, Liège, Belgium.  
<http://hdl.handle.net/10993/23926>  
Peer reviewed ✓
-  Bisdorff, R. (2009). *The Decision Deck Project*. Geiger, Martin Josef (editor).  
<http://hdl.handle.net/10993/22786>  
*The Decision Deck project is developing an open-source generic Multiple Criteria Decision Aid (MCDA) software platform composed of modular components. Its purpose is to provide effective tools for decision-aid ...*
-  Bisdorff, R., Meyer, P., & Veneziano, T. (2009). Inverse analysis from a Condorcet robustness denotation of valued outranking relations. In F. Rossi & A. Tsoukiás (Eds.), *Algorithmic Decision Theory* (pp. 180-191). Berlin; Heidelberg: Springer.  
<http://hdl.handle.net/10993/23454>  
Peer reviewed ✓  
*In this chapter we develop an indirect approach for assessing criteria significance weights from the robustness of the significance that a decision maker acknowledges for his pairwise outranking statements in ...*
-  Meyer, P., Marichal, J.-L., & Bisdorff, R. (2008). Disaggregation of bipolar-valued outranking relations. In H. A., Le Thi, P., Bouvry, & T., Pham Dinh (Eds.), *Modelling, Computation and Optimization in Information Systems and Management Sciences* (pp. 204-213). Berlin, Germany: Springer.  
<http://hdl.handle.net/10993/14485>  
Peer reviewed ✓  
*In this article, we tackle the problem of exploring the structure of the data which is underlying a bipolar-valued outranking relation. More precisely, we show how the performances of alternatives and weights ...*
-  Meyer, P., Bisdorff, R., & Marichal, J.-L. (2008, January). *Disaggregation of bipolar-valued outranking relations and application to the inference of model parameters*. Paper presented at 19th Int. Conf. on Multiple Criteria Decision Making (MCDM 2008), Auckland, New Zealand.  
<http://hdl.handle.net/10993/10989>  
Peer reviewed ✓
-  Bisdorff, R. (2008). On Clustering the Criteria in an Outranking Based Decision Aid Approach. *Communications in Computer and Information Science*, 14, 409-418.  
<http://hdl.handle.net/10993/23718>  
Peer reviewed ✓
-  Bisdorff, R., & Marichal, J.-L. (2008). Counting non-isomorphic maximal independent sets of the n-cycle graph. *Journal of Integer Sequences*, 11(5), 1-16.  
<http://hdl.handle.net/10993/387>  
Peer reviewed (verified by ORBi<sup>lu</sup>) ✓  
*The number of maximal independent sets of the n-cycle graph  $C_n$  is known to be the  $n$ th term of the Perrin sequence. The action of the automorphism group of  $C_n$  on the family of these maximal independent sets ...*
-  Bisdorff, R., Meyer, P., & Roubens, M. (2008). RUBIS: A bipolar-valued outranking method for the choice problem. *4OR: a quarterly journal of operations research*, 6(2), 143-165.  
<http://hdl.handle.net/10993/23716>  
Peer reviewed ✓
- Bisdorff, R., Meyer, P., & Siskos, Y. (2008). OR and the management of electronic services - EURO'2004. *European Journal of Operational Research*, 187(3), 1293-1295.  
<http://hdl.handle.net/10993/23717>  
Peer reviewed (verified by ORBi<sup>lu</sup>) ✓
-  Meyer, P., Marichal, J.-L., & Bisdorff, R. (2007, September). *Disaggregation of bipolar-valued outranking relations and application to the inference of model parameters*. Paper presented at 38th Meeting of the Eur. Mathematical Psychology Group (EMPG 38), Decision Science Symposium, Luxembourg, Luxembourg, Sep. 13, 2007, Luxembourg, Luxembourg.  
<http://hdl.handle.net/10993/10993>
- Bisdorff, R., Lundberg, G., & Marichal, J.-L. (Eds.). (2007). Human centered processes: Toward a naturalistic decision making paradigm. *European Journal of Operational Research*, 177(3), 1313-2118.  
<http://hdl.handle.net/10993/7195>  
Peer reviewed (verified by ORBi<sup>lu</sup>) ✓

-  Bisdorff, R. (2007). *On maximal independent sets in circulant digraphs* (Final version). Eprint/Working paper retrieved from <http://orbi.ulg.ac.be/handle/10993/35522>.  
<http://hdl.handle.net/10993/35522>  
*In this research note we introduce St-Nicolas graphs, i.e. circulant digraphs showing exactly  $n$  maximal independent sets, isomorph under the digraph's automorphisms group. This class of digraphs represent ...*
-  Meyer, P., & Bisdorff, R. (2007, February). *Exploitation of a bipolar-valued outranking relation for the choice of  $k$  best alternatives*. Paper presented at FRANCO V / ROADEF 2007, Grenoble, France.  
<http://hdl.handle.net/10993/45336>  
Peer reviewed ✓  
*We present the problem of the selection of  $k$  best alternatives in the context of multiple criteria decision aid. We situate ourselves in the context of pairwise comparisons of alternatives and the underlying ...*
-  Bisdorff, R., & Marichal, J.-L. (2007, January). *Counting non-isomorphic maximal independent sets of the  $n$ -cycle graph*. Paper presented at 21st Annual Conf. of the Belgian Operational Research Society (ORBEL 21), Luxembourg, Jan. 18-19, 2007, Luxembourg, Luxembourg.  
<http://hdl.handle.net/10993/10987>  
*It is known that the number of maximal independent sets of the  $n$ -cycle graph  $C_n$  is given by the  $n$ th term of the Perrin sequence. The action of the automorphism group of  $C_n$  on the family of these ...*
- Bisdorff, R., & Lundberg, G. (2007). Human centered processes: Toward a naturalistic decision making paradigm. *European Journal of Operational Research*, 177(3), 1313-1316.  
<http://hdl.handle.net/10993/23719>  
Peer reviewed ✓
-  Bisdorff, R. (2006). On enumerating the kernels in a bipolar-valued digraph. *Annales du LAMSADE*, 6, 38.  
<http://hdl.handle.net/10993/38741>  
Peer reviewed ✓  
*In this paper we would like to thoroughly cover the problem of computing all kernels, i.e. minimal outranking and/or outranked independent choices in a bipolar-valued outranking digraph. First we introduce ...*
-  Bisdorff, R., Pirlot, M., & Roubens, M. (2006). Choices and kernels in bipolar valued digraphs. *European Journal of Operational Research*, 175(1), 155-170.  
<http://hdl.handle.net/10993/23720>  
Peer reviewed ✓
-  Bisdorff, R. (2005, October 11). *Exploitation en problématique du choix d'une relation de surclassement évaluée*. Paper presented at Séminaire du LAMSADE, Université Paris-Dauphine, France.  
<http://hdl.handle.net/10993/47659>  
*The presentation discusses the use of the digraph kernels for computing a best choice recommendation from a valued outranking digraph. The classical best decision problem approach is critically reviewed. New ...*
-  Bisdorff, R., Marichal, J.-L., & Meyer, P. (Eds.). (2005). *Proc. of the 61st Meeting of the Eur. Working Group "Multiple Criteria Decision Aiding"* (Luxembourg, March 10-12, 2005) - Theme: Preference Modelling. Luxembourg, Luxembourg: SMA - University of Luxembourg.  
<http://hdl.handle.net/10993/7263>
-  Bisdorff, R. (2004). Preference aggregation with multiple criteria of ordinal significance. *Annales du LAMSADE*, 3, 25-44.  
<http://hdl.handle.net/10993/42420>  
Peer reviewed ✓  
*In this paper we address the problem of aggregating outranking situations in the presence of multiple preference criteria of ordinal significance. The concept of ordinal concordance of the global outranking ...*
-  Bisdorff, R. (2004). On a natural fuzzification of Boolean logic. In P. E., Klement, Erich Peter, *Proceedings of the 25th Linz Seminar on Fuzzy Set Theory, Mathematics of Fuzzy Systems* (pp. 6). Linz, Austria: Bildungszentrum St. Magdalena.  
<http://hdl.handle.net/10993/38740>  
Peer reviewed ✓  
*In this communication we propose two logically sound fuzzification and defuzzification techniques for implementing a credibility calculus on a set of propositional expressions. Both rely on a credibility ...*
-  Bisdorff, R. (2004). Concordant outranking with multiple criteria of ordinal significance: A contribution to robust multicriteria aid for decision. *4OR: a quarterly journal of operations research*, 2(4), 293-308.  
<http://hdl.handle.net/10993/23721>  
Peer reviewed ✓

-  Bisdorff, R., & Roubens, M. (2004). Choice procedures in pairwise comparison multiple-attribute decision making methods. *Lecture Notes in Computer Science*, 3051, 1-7.  
<http://hdl.handle.net/10993/23722>  
Peer reviewed ✓
-  Bisdorff, R. (2002). *Design and Implementation of Decision Making Checkers for Industrial Production Scheduling, Control, and Maintenance*. Unpublished doctoral thesis, Université de Liège, Liège, Liège.  
<http://hdl.handle.net/10993/23927>  
Jury: Crama, Y. (Promotor), De Bruyn, C., Barthélemy, J.-P., Colson, G., Roubens, M., & Teghem, J.  
Barthélemy, J. P., Bisdorff, R., & Coppin, G. (2002). Human centered processes and decision support systems. *European Journal of Operational Research*, 136(2), 233-252.  
<http://hdl.handle.net/10993/23725>  
Peer reviewed ✓
-  Bisdorff, R. (2002). Electre-like clustering from a pairwise fuzzy proximity index. *European Journal of Operational Research*, 138(2), 320-331.  
<http://hdl.handle.net/10993/23723>  
Peer reviewed ✓
-  Bisdorff, R. (2002). Logical foundation of multi-criteria decision-aiding. In P., Perny, R., Slowinski, D., VanderPooten, P., Vincke, D., Bouyssou (Ed.), & E., Jacquet-Lagrèze (Ed.), *Aiding decisions with multiple criteria: Essays in Honor of Bernard Roy* (pp. 379-403). Dordrecht, The Netherlands: Kluwer Academic Publishers.  
<http://hdl.handle.net/10993/45313>  
Peer reviewed ✓  
*In this chapter, we would like to show Bernard Roy's contribution to modern computational logic. Therefore we first present his logical approach for multi-criteria preference modelling. Here, decision aid is ...*
-  Bisdorff, R. (2000). Logical foundation of fuzzy preferential systems with application to the electre decision aid methods. *Computers and Operations Research*, 27(7-8), 673-687.  
<http://hdl.handle.net/10993/23724>  
Peer reviewed ✓
-  Bisdorff, R. (2000). Professional Careers of Retired Working Persons. In E., Diday & H.-H., Bock (Ed.), *Analysis of Symbolic Data: Exploratory methods for extracting statistical information from complex data* (pp. 356-374). Springer.  
<http://hdl.handle.net/10993/47406>  
Peer reviewed ✓  
*Illustrative benchmark analyses obtained in the context of social security statistics where professional careers of retired working persons from Luxembourg are analyses with the help of symbolic data analysis ...*
-  Bisdorff, R. (1999). Bipolar ranking from pairwise fuzzy outrankings. *Belgian Journal of Operations Research, Statistics and Computer Science*, 37(4), 379-387.  
<http://hdl.handle.net/10993/38738>  
Peer reviewed ✓  
*In this paper we propose to apply the concept of L-valued kernels to the problem of constructing a global ranking from a pairwise L-valued outranking relation defined on a set of decision alternatives as ...*
- Bisdorff, R. (1999). Cognitive support methods for multi-criteria expert decision making. *European Journal of Operational Research*, 119(2), 379-387.  
<http://hdl.handle.net/10993/23726>  
Peer reviewed ✓
-  Bisdorff, R. (1998, November 20). *On Designing an L-valued Prolog Engine*. Paper presented at BENELOG'98, the 9th Benelux Workshop on Logic Programming, Amsterdam, NL.  
<http://hdl.handle.net/10993/38737>  
Peer reviewed ✓  
*This text presents our communication at the 9th Benelux Workshop on Logic Programming in Amsterdam. We discussed some theoretical and practical arguments for designing a multi-truth valued extension of Prolog.*
-  Bisdorff, R. (1996, September 09). *On computing kernels on fuzzy simple graphs by combinatorial enumeration using a CPL(FD) system*. Paper presented at 8th Benelux Workshop on Logic Programming, Louvain-la-Neuve, Belgium.  
<http://hdl.handle.net/10993/46933>  
Peer reviewed ✓  
*This paper reports our communication done at the 8th Benelux Workshop on Logic Programming in Louvain-la-Neuve, 9 September 1996. We present a constraint formulation in finite domains of the kernel ...*





Bisdorff, R. (1996). *On linear decompositions of L-valued simple graphs*. Eprint/Working paper retrieved from <http://orbi.ulg.ac.be/handle/10993/38736>.

<http://hdl.handle.net/10993/38736>

Peer reviewed ✓

*In this report we will present a linear decomposition of a given L- valued binary relation into a set of sub-relations of kernel-dimension one. We will apply this theoretical result to the design of a faster ...*



Bisdorff, R. (1995). *Quel est l'intérêt d'une approche multi-dimensionnelle du jugement de préférence ?* (08.02.1995). Eprint/Working paper retrieved from <http://orbi.ulg.ac.be/handle/10993/45300>.

<http://hdl.handle.net/10993/45300>

Peer reviewed ✓

*We present, in terms of logic programming, an algorithm for constructing decision rules from an extensional representation of the solutions to a multiple attributes decision problem. The algorithm is based on ...*



Bisdorff, R., & Laurent, S. (1995). Industrial linear optimization problems solved by constraint logic programming. *European Journal of Operational Research*, 84(1), 82-95.

<http://hdl.handle.net/10993/23727>

Peer reviewed (verified by ORBi<sup>lu</sup>) ✓

*In this article we illustrate that Constraint Logic Programming (CLP) systems allow easy expression and solutions of constrained decision problems. CLP solutions for two industrial linear optimization problems ...*



Bisdorff, R. (1981). *Evaluations distributionnelles sur une échelle de préférence qualitative*. Unpublished doctoral thesis, Université Paris Dauphine, Paris, France.

<http://hdl.handle.net/10993/45343>

Jury: Roy, B., Vincke, P., Jaffray, J.-Y., & Jacquet-Lagrèze, E.

*In a first Chapter, we present a critical review of the weighted average when facing distributional performance evaluations measured on an essentially qualitative preference scale. In a second Chapter we ...*