

# Vincent Mousseau

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Born, Oct. 30, 1965, married, 2 children

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## Education and Career path

- 2008 – ····  **Full Professor**, CentraleSupélec (formerly Ecole Centrale Paris), University of Paris-Saclay.
- 2006 – 2007  **Sabatical Délégation CNRS**, LIP6, Université Pierre et Marie Curie, Paris.
- 2003  **Habilitation à diriger des recherches**, University Paris-Dauphine.  
*Modélisation et élicitation des préférences pour l'aide à la décision.*
- 2000 – 2001  **Sabatical researcher**, DIMACS, RUTGERS University, NJ, USA.
- 1994 – 2008  **Assistant professor**, Lamsade, University Paris-Dauphine.
- 1992 – 1994  **ATER**, Lamsade, University Paris-Dauphine.
- 1993  **Doctorat en Informatique**, University Paris-Dauphine, (supervision Bernard Roy).  
*Problèmes liés à l'évaluation de l'importance relative des critères en aide multicritère à la décision : Réflexions théoriques, expérimentations et implémentations*

## Responsibilities

- 2013 – ····  Head of the axis “Systèmes complexes”, Doctoral school Interfaces (ED n°573), University of Paris-Saclay, ~80 PhDs.
- 2014 – ····  Associate editor of the journal 4OR, Springer.
- 2023 – ····  Bureau member of the Graduate School “Informatique et Science du Numérique”, University of Paris-Saclay.
- 2016 – 2021  Editor in chief of EURO Journal on Decision Processes, Elsevier.
- 2015 – 2018  Deputy Director of the Industrial Engineering Laboratory (~90 membres), Centrale-Supélec, University of Paris-Saclay.
- 2008 – 2018  Head of the Decision Making Team, Industrial Engineering Laboratory (~25 members), CentraleSupélec.
- 2008 – 2016  Head of the OSIL Master “Optimisation des Systèmes Industriels et Logistiques”, Ecole Centrale Paris.
- 2009 – 2012  Elected member of the scientific council, Ecole Centrale Paris.
- 2003 – 2008  Head of the ID Master “Informatique Décisionnelle”, Université Paris-Dauphine.

## Research Interests and contributions

-  My main research activities are positioned in the domain of decision modelling and preference learning, in particular when decision models involve multiple criteria. From a multiple criteria decision making perspective I have been studying both pairwise comparison (so-called outranking) methods, and value-based aggregation methods, but also on multi-criteria interactive methods.

## Research Interests and contributions (continued)

- A large part of my research has been devoted to the study of algorithmic processes enabling to elicit a preference model from preference statement obtained from decision-makers. Such type of research amounts at preference learning, and aims at computing the set of preference parameters value that best match the input/learning set provided by the decision-maker. A typical example of such research has been published in [66], and proposes an optimization based approach to learn the parameters of the Electre Tri method from assignment examples; this seminal work has been extended namely based on the axiomatic variant of Electre Tri (NCS, NonCompensatory Sorting). Concerning value-based aggregation methods, I have contributed to the robust ordinal regression so as to infer the partial ranking resulting from a set of pairwise comparison statements, see [46].
- This past decade, I also worked on explainability of recommendations produced by multi-criteria decision models. So as to increase trustworthiness of recommendations for users, the recommendations based preference models should come with interpretability and explanations. Convincing recommendations can not rely on technical elements of the model of preference, but on “primitives” used by the decision maker in their reasoning. An example of such contribution in the context of an additive value-based model can be found in [7].
- From a broader perspective, my research on preference elicitation and learning has contributed to bridge the gap between formerly distinct research communities : MCDM researchers that are operations research oriented, and researchers in preference learning, mostly coming from the IA and statistical learning community. Such link has been materialized by a serie of workshop that I initiated with Marc Pirlot in 2012: DA2PL, from Decision Analysis to Preference Learning. Since 2012, these workshops takes place every second year and gather 50-70 participants. This perspective also explains the reason for which, during the last decade, I have been publishing my work in major international artificial Intelligence conferences (such as IJCAI, ECAI, AAMAS).

## Publications

- 63 papers in international journals, 31 international conferences proceedings, 12 book chapters, 5 edited books,
- h-index=40, citations=8851 (Google scholar), and h-index=23, citations=4339, cit/art=55.6 (WoS, [www.researcherid.com/rid/E-9078-2012](http://www.researcherid.com/rid/E-9078-2012)),
- **International scientific collaborations** : R. Slowinski (Poznan, Pologne), J. Figueira (Lisbon, Portugal), M. Pirlot (Mons, Belgique), R. Bisdorff (Luxembourg), L. Dias (Coimbra, Portugal), M. Koksalan (Ankara,Turquie), S. Greco (Catane, Italie), O. Ozpeynirci and S. Bilgin (Izmir, Turquie).
- Full publication record provided at the end of this curriculum.

## Supervision and mentoring

### Ongoing PhDs (2)

- 09/2024-... ■ Vincent Auriou, "Modèles d'optimisation d'assortiment en magasin entraîné, évalué et adapté aux préférences clients", co-encadré avec K. Belahcène.
- 02/2024-... ■ Susmitha Patnala, "Planification et gestion optimale des missions de service en orbite pour la résilience et la durabilité de l'infrastructure spatiale", co-encadrée avec A. Abdin

### Defended PhDs (16)

- 12/2025 ■ Henri Surugue, "Probabilistic Approaches to the Analysis of Voting Outcomes' Variability", co-encadré avec A. Wilczynski.
- 12/2023 ■ Manuel Amoussou, "Explications en aide multicritère à la décision : schémas déductifs, algorithmes et expérimentations", co-encadré avec K. Belahcène, N. Maudet et W. Ouerdane.

## Supervision and mentoring (continued)

- 11/2023 ■ Mathieu Lerouge, "Conception et génération d'explications à propos des solutions d'un problème de planification d'employés mobiles pour des utilisateurs d'un système d'optimisation", co-encadré avec C. Gicquel et W. Ouerdane
- 06/2022 ■ Ali Tlili, "Modèles de tri contraint multicritères pour la sélection de portefeuilles", co-encadré avec W. Ouerdane
- 05/2022 ■ Peddwende Minoungou, "Apprentissage de modèles à règle majoritaire à partir de données partiellement monotones", co-encadré avec W. Ouerdane
- 12/2018 ■ Khaled Belahcène, "Explications pour l'agrégation des préférences — une contribution à l'aide à la décision responsable", co-encadré avec N. Maudet et W. Ouerdane
- 06/2017 ■ Oumaima Khaled, "Une méthodologie générique de réparation multicritère pour l'optimisation sous incertitude : Application aux problèmes de planification et d'affectation", co-encadré avec M. Minoux
- 06/2016 ■ Olivier Sobrie, "Apprentissage de préférences à l'aide de modèles multi-critères" co-encadré avec M. Pirlot
- 03/2016 ■ Jinyan Liu, "Élicitation des préférences pour un rangement multicritère basé sur les points de référence", co-encadré avec W. Ouerdane
- 12/2015 ■ Manel Maamar, "Modélisation et optimisation bi-objectif et multi-période avec anticipation d'une place de marché de prospects Internet : adéquation offre/demande", co-encadré avec W. Ouerdane
- 07/2015 ■ Tairan Wang, "La prise de décision et la modélisation d'incertitude pour l'analyse multicritère des systèmes complexes énergétiques, co-encadré avec E. Zio
- 11/2012 ■ Olivier Cailloux, "Elicitation indirecte de modèles de tri multicritère"
- 07/2012 ■ Jun Zheng, "Elicitation des Préférences pour des Modèles d'Agrégation basés sur des Points de référence : Algorithmes et Procédures"
- 06/2012 ■ Stéphane DeParis, "Etude de l'effet du conflit multicritère sur l'expression des préférences : Une approche empirique", co-encadré avec M. Öztürk
- 06/2006 ■ Salem Chakhar, "Cartographie décisionnelle multicritère : formalisation et implémentation", co-encadré avec Bernard Roy
- 11/2001 ■ Naoufel Moussa, "Aide multicritère à l'évaluation qualitative par inférence de modèles de tri ordonné sur une hiérarchie de critères : Application pour la conception d'un système européen de cotation de PME innovantes", co-encadré avec B. Roy

## Books

- [1] Raymond Bisdorff, Luis C Dias, Patrick Meyer, Vincent Mousseau, and Marc Pirlot. *Evaluation and decision models with multiple criteria: Case studies*. Springer, 2015.
- [2] Robert Busa-Fekete, Eyke Hullermeier, and Vincent Mousseau. *Proceedings of DA2PL'2016 From Multiple Criteria Decision Aid to Preference Learning, Paderborn, Germany*. Springer, 2016.
- [3] Salvatore Greco, Vincent Mousseau, Jurek Stefanovski, and Constantin Zopounidis. *Intelligent Decision Support Systems: Combining Operations Research and Artificial Intelligence - Essays in Honor of Roman Slowinski*. Springer, 2022.
- [4] Vincent Mousseau and Marc Pirlot. *Proceedings of DA2PL'2012 From Multiple Criteria Decision Aid to Preference Learning, Mons, Belgium*. Springer, 2012.
- [5] Vincent Mousseau and Marc Pirlot. *Proceedings of DA2PL'2014 From Multiple Criteria Decision Aid to Preference Learning, Chatenay-Malabry, France*. Springer, 2014.

## Journal Papers

- [6] Javier Maass, Vincent Mousseau, and Anaëlle Wilczinski. A hotelling-downs game for strategic candidacy with binary issues. *Autonomous Agents and Multi-Agent Systems Journal*, to appear.
- [7] Manuel Amoussou, Khaled Belahcene, Nicolas Maudet, Vincent Mousseau, and Wassila Ouerdane. Designing and computing explanations for comparisons inferred from an additive value model. *European Journal of Operational Research*, 328(1):232–245, 2026.
- [8] Mathieu Lerouge, Céline Gicquel, Vincent Mousseau, and Wassila Ouerdane. Modeling and generating user-centered contrastive explanations for the workforce scheduling and routing problem. *International Transactions in Operational Research*, 33(3):1525–1558, 2026.
- [9] Manuel Amoussou, Khaled Belahcène, Christophe Labreuche, Nicolas Maudet, Vincent Mousseau, and Wassila Ouerdane. Questionable stepwise explanations for a robust additive preference model. *International Journal of Approximate Reasoning*, 171:108982, 2024.
- [10] Khaled Belahcène, Vincent Mousseau, Marc Pirlot, Wassila Ouerdane, and Olivier Sobrie. A guided tour of multiple criteria sorting models and methods. *Annals of Operations Research*, pages 1–61, 2024.
- [11] Khaled Belahcène, Vincent Mousseau, Wassila Ouerdane, Marc Pirlot, and Olivier Sobrie. Ranking with multiple reference points: Efficient SAT-based learning procedures. *Computers & Operations Research*, 150:106054, 2023.
- [12] Pegdwendé Minoungou, Vincent Mousseau, Wassila Ouerdane, and Paolo Scotton. Learning MR-Sort models from non-monotone data. *Annals of Operations Research*, 325(2):795–817, 2023.
- [13] Ali Tlili, Oumaima Khaled, Vincent Mousseau, and Wassila Ouerdane. Interactive portfolio selection involving multicriteria sorting models. *Annals of Operations Research*, 325(2):1169–1195, 2023.
- [14] Khaled Belahcene, Vincent Mousseau, Marc Pirlot, Wassila Ouerdane, and Olivier Sobrie. Multiple criteria sorting models and methods. part I: survey of the literature. *4OR*, 21(1):1–43, 2023.
- [15] Khaled Belahcene, Vincent Mousseau, Marc Pirlot, Wassila Ouerdane, and Olivier Sobrie. Multiple criteria sorting models and methods. part II: Theoretical results and general issues. *4OR*, 2023.
- [16] Selin Özpeynirci, Özgür Özpeynirci, and Vincent Mousseau. A decomposition based minimax regret approach for inverse multiple criteria sorting problem. *4OR*, 21(1):125 – 149, 2023.
- [17] Selin Özpeynirci, Özgür Özpeynirci, and Vincent Mousseau. Portfolio decision analysis with a generalized balance approach. *Computers & Operations Research*, 142:105705, 2022.
- [18] Ali Tlili, Khaled Belahcène, Oumaima Khaled, Vincent Mousseau, and Wassila Ouerdane. Learning non-compensatory sorting models using efficient SAT/MaxSAT formulations. *European Journal of Operational Research*, 298(3):979–1006, 2022.

- [19] Alexandru-Liviu Olteanu, Khaled Belahcene, Vincent Mousseau, Wassila Ouerdane, Antoine Rolland, and Jun Zheng. Preference elicitation for a ranking method based on multiple reference profiles. *JOR*, 20(1):63–84, 2022.
- [20] Selin Özpeynirci, Özgür Özpeynirci, and Vincent Mousseau. An interactive algorithm for resource allocation with balance concerns. *OR Spectrum*, 43(4):983–1005, 2021.
- [21] Özgür Özpeynirci, Selin Özpeynirci, and Vincent Mousseau. An interactive approach for inverse multiple criteria sorting problem. *Journal of Multi-Criteria Decision Analysis*, 28(3-4):160–169, 2021.
- [22] Tairan Wang, Nicola Pedroni, Enrico Zio, and Vincent Mousseau. Identification of protective actions to reduce the vulnerability of safety-critical systems to malevolent intentional acts: An optimization-based decision-making approach. *Risk Analysis*, 40(3):565–587, 2020.
- [23] Olivier Sobrie, Vincent Mousseau, and Marc Pirlot. Learning monotone preferences using a majority rule sorting model. *International Transactions in Operational Research*, 26(5):1786–1809, 2019.
- [24] Vincent Mousseau, Özgür Özpeynirci, and Selin Özpeynirci. Inverse multiple criteria sorting problem. *Annals of OR*, 267(1-2):379–412, 2018.
- [25] Özgür Özpeynirci, Selin Özpeynirci, and Vincent Mousseau. An interactive algorithm for multiple criteria constrained sorting problem. *Annals of OR*, 267(1-2):447–466, 2018.
- [26] Khaled Belahcene, Christophe Labreuche, Nicolas Maudet, Vincent Mousseau, and Wassila Ouerdane. An efficient SAT formulation for learning multiple criteria non-compensatory sorting rules from examples. *Computers & OR*, 97:58–71, 2018.
- [27] Oumaima Khaled, Michel Minoux, Vincent Mousseau, Stéphane Michel, and Xavier Ceugniet. A multi-criteria repair/recovery framework for the tail assignment problem in airlines. *Journal of Air Transport Management*, 68:137–151, 2018.
- [28] V. Ferretti, J. Liu, V. Mousseau, and W. Ouerdane. Reference-based ranking procedure for environmental decision making: Insights from an ex-post analysis. *Environmental Modelling & Software*, 99:11 – 24, 2018.
- [29] Olivier Sobrie, Nicolas Gillis, Vincent Mousseau, and Marc Pirlot. UTA-poly and UTA-splines: additive value functions with polynomial marginals. *European Journal of Operational Research*, 264(2):405–418, 2018.
- [30] Oumaima Khaled, Michel Minoux, Vincent Mousseau, Stéphane Michel, and Xavier Ceugniet. A compact optimization model for the tail assignment problem. *European Journal of Operational Research*, 264(2):548–557, 2018.
- [31] Eda Ersek Uyanik, Vincent Mousseau, Marc Pirlot, and Olivier Sobrie. Enumerating and categorizing positive boolean functions separable by a k-additive capacity. *Discrete Applied Mathematics*, 229:17–30, 2017.
- [32] Murat Köksalan, Vincent Mousseau, and Selin Özpeynirci. Multicriteria sorting with category size restrictions. *International Journal of Information Technology and Decision Making*, 16(1):5 – 23, January 2017.
- [33] Khaled Belahcene, Christophe Labreuche, Nicolas Maudet, Vincent Mousseau, and Wassila Ouerdane. Explaining robust additive utility models by sequences of preference swaps. *Theory and Decision*, 82(2):151–183, 2017.
- [34] Tairan Wang, Vincent Mousseau, Nicola Pedroni, and Enrico Zio. An empirical classification-based framework for the safety criticality assessment of energy production systems, in presence of inconsistent data. *Reliability Engineering and System Safety*, 157:139–151, January 2017.
- [35] Olivier Sobrie, Mohamed Amine Lazouni, Said Mahmoudi, Vincent Mousseau, and Marc Pirlot. A new decision support model for preanesthetic evaluation. *Computer Methods and Programs in Biomedicine*, 133:183–193, 2016.
- [36] Vincent Mousseau and Marc Pirlot. Preference elicitation and learning. *EURO Journal on Decision Processes*, 3(1-3), May 2015.
- [37] Stéphane Deparis, Vincent Mousseau, Meltem Öztürk, and Caroline Huron. The effect of bi-criteria conflict on matching-elicited preferences. *European Journal of Operational Research*, 242(3):951 – 959, 2015.
- [38] Jun Zheng, Stéphane Aimé Metchebon Takougang, Vincent Mousseau, and Marc Pirlot. Learning criteria weights of an optimistic electre tri sorting rule. *Computers & Operations Research*, 49:28 – 40, April 2014.
- [39] Salvatore Greco, Vincent Mousseau, and Roman Slowiński. Robust ordinal regression for value functions handling interacting criteria. *European Journal of Operational Research*, 239(3):711 – 730, June 2014.

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- [41] Olivier Cailloux, Patrick Meyer, and Vincent Mousseau. Eliciting ELECTRE TRI category limits for a group of decision makers. *European Journal of Operational Research*, 223(1):133–140, Nov. 2012.
- [42] Stephane Deparis, Vincent Mousseau, Meltem Oeztuerk, Christophe Pallier, and Caroline Huron. When conflict induces the expression of incomplete preferences. *European Journal of Operational Research*, 221(3):593–602, Sept. 2012.
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- [46] Salvatore Greco, Vincent Mousseau, and Roman Slowinski. Multiple criteria sorting with a set of additive value functions. *European Journal of Operational Research*, 207(3):1455–1470, Dec. 2010.
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- [55] Luis C Dias and Vincent Mousseau. Inferring Electre’s veto-related parameters from outranking examples. *European Journal of Operational Research*, 170(1):172–191, 2006.
- [56] Vincent Mousseau, Luis C Dias, and José Figueira. Dealing with inconsistent judgments in multiple criteria sorting models. *4OR: A Quarterly Journal of Operations Research*, 4(2):145–158, 2006.
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## Conference proceedings

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- [74] Mathieu Lerouge, Céline Gicquel, Vincent Mousseau, and Wassila Ouerdane. Counterfactual explanations for workforce scheduling and routing problems. In *Proceedings of the ICORES Conference 2023*, Feb. 2023.
- [75] Khaled Belahcène, Vincent Mousseau, and Anaëlle Wilczynski. Combining fairness and optimality when selecting and allocating projects. In Zhi-Hua Zhou, editor, *Proceedings of the Thirtieth International Joint Conference on Artificial Intelligence, IJCAI-21*, pages 38–44. International Joint Conferences on Artificial Intelligence Organization, 8 2021.
- [76] P. Minoungou, V. Mousseau, W. Ouerdane, and Scotton P. Learning an MR-Sort model from data with latent criteria preference direction. In *Proceeding of the 5th workshop from multiple criteria Decision aid to Preference Learning (DA2PL)*, Trento, Italy, November 2020.
- [77] M. Amoussou, C. Labreuche, N. Maudet, V. Mousseau, and W. Ouerdane. Explaining the robust additive decision model: MILP assessment of preference-swap sequence. In *Proceeding of the 5th workshop from multiple criteria Decision aid to Preference Learning (DA2PL)*, Trento, Italy, November 2020.
- [78] Khaled Belahcène, Christophe Labreuche, Nicolas Maudet, Vincent Mousseau, and Wassila Ouerdane. Comparing options with argument schemes powered by cancellation. In *Proceedings of the Twenty-Eighth International Joint Conference on Artificial Intelligence, IJCAI 2019, Macao, China, August 10-16, 2019*, pages 1537–1543, 2019.
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## To appear