

## Jérôme Lang — Curriculum Vitae

### Education

- Accreditation to supervise research, 2003, University of Toulouse.
- PhD, 1991, University of Toulouse.
- Engineering degree in computer science and applied mathematics, ENSEEIHT-INPT, 1987.

### Employment

- Directeur de recherche (research professor), CNRS, 2008–. Affiliated to LAMSADE, PSL, Université Paris-Dauphine.
- Chargé de recherche, CNRS, 1991-2008, IRIT, University of Toulouse.

**Research:** Most of my research lies at the crossing point of AI and economics, with a focus on computational social choice, algorithmic game theory and algorithmic decision theory.

### Honors and awards

- CNRS silver medal, 2017.
- ECCAI (now EurAI) Fellow since 2009.
- Best paper award, KR 2004 and AAMAS 2011.
- Best senior PC member award, AAAI 2010.
- Best reviewer award, ECAI 2002.

### Teaching and student supervision

- Teaching: courses in the master and doctoral programs, University Paris-Dauphine (AI and decision, computational social choice).
- Student supervision: 10 former PhD students (including Celia da Costa Pereira, associate professor, HDR, University of Nice; Thomas Polacsek, research engineer, ONERA; Elise Bonzon, associate professor, University Paris-Descartes; Sylvain Bouveret, associate professor, ENSIMAG; Meghyn Bienvenu, junior researcher at CNRS, CNRS bronze medal 2016; Nathanaël Barrot, post-doc, Kyushu University, Japan), and 2 current ones.

### Professional activities

- Editorial boards: associate editor of *Journal of Artificial Intelligence Research (JAIR)* (2009–2015), *Artificial Intelligence Journal (AIJ)* (2010–2016); *Social Choice and Welfare* (2016–), *Autonomous Agents and Multi-Agent Systems*, (2008–). Member of the advisory committee of *JAIR* (2016–). Member of the editorial board of *Synthese* (2012–). Head of the committee for the AIJ Prominent and Classic Award Winning Papers (2016–2017). Guest editor of 8 special issues of journals.
- Conference boards: Program chair of the *27th International Joint Conference on Artificial Intelligence and the 23rd European Conference on Artificial Intelligence (IJCAI-ECAI-2018)*, and of the *16th Conference on Theoretical Aspects of Rationality and Knowledge (TARK-2017)*. Program-co-chair of the *11th International Conference on the Principles of Knowledge Representation and Reasoning (KR 2008)*, and of 5 other international conferences. IJCAI trustee, 2015-2020. Member of the ECCAI/EurAI board, 2010-2016. Workshop co-chair, IJCAI-15 and ECAI-2012. Senior member track co-chair, AAAI-15. Poster chair, ECAI-2006. Co-organizer of four Dagstuhl seminars.
- Outreach: co-author of an article in the daily newspaper *Libération*, 2017; co-author of two reports for the Terra Nova think tank, 2018 and 2019.

### Grants

- Advanced researcher chair within 3IA institute *PRAIRIE*, 2019-2023.
- Leader of ANR project “Computation, Communication, Rationality and Incentives in Collective and Cooperative Decision Making” (CoCoRiCo-CoDec), 2014–2019.

- Leader of ANR project “Preference Handling and Aggregation on Combinatorial Domains” , 2006–2009.
- Co-leader of the project “De l’intelligence artificielle aux sciences de la décision : modèles formels et mise en oeuvre de processus de prise de décision individuelle et collective” (2002–2005), within the interdisciplinary program *Société de l’Information* (CNRS).
- Co-leader of the project “La pertinence dans l’interprétation d’actions” within the interdisciplinary program *Cognitive* (2001–2003).
- Leader of 5 bilateral (PHC) projects.

### Invited talks

Plenary invited speaker at the following international conferences or workshops: *29th European Summer School in Logic, Language, and Information* (ESSLLI 2017); *15th International Conference on Principles of Knowledge Representation and Reasoning* (KR 2016); *Fourth International Conference on Algorithmic Decision Theory* (ADT-15), joint invited talk with *13th International Conference on Logic Programming and Non-monotonic Reasoning* (LPNMR 15); and of 10 other international conferences since 2004.

### Publications

*Summary:* 1 book, 7 book chapters, 10 edited collections, 43 articles in international journals, 139 papers in peer-reviewed international conferences. Over 12000 citations (of which more than 4600 since 2014); h-index: 57 (source: Google Scholar).

*10 recent publications* (for a complete list see [https://www.lamsade.dauphine.fr/%7Elang/publi\\_annee.html](https://www.lamsade.dauphine.fr/%7Elang/publi_annee.html) or <https://dblp.uni-trier.de/pers/hd/l/Lang:J=acute=r=ocirc=me.>)

1. H. Aziz, P. Biró, J. Lang, J. Lesca, J. Monnot: Efficient reallocation under additive and responsive preferences. *Theoretical Computer Science* 790: 1-15 (2019).
2. S. Airiau, H. Aziz, I. Caragiannis, J. Kruger, J. Lang, and D. Peters. Portioning using ordinal preferences: Fairness and efficiency. In *Proceedings of the 28th International Joint Conference on Artificial Intelligence* (IJCAI 2019), pages 1117, 2019.
3. J. Lang, P. Skowron. Multi-Attribute Proportional Representation. *Artificial Intelligence Journal* 263: 74-106 (2018).
4. J. Lang, J. Mengin, Lirong Xia. Voting on Multi-Issue Domains with Conditionally Lexicographic Preferences. *Artificial Intelligence Journal* 265: 18-44 (2018).
5. A. Darmann, E. Elkind, S. Kurz, J. Lang, J. Schauer, G. Woeginger. Group Activity Selection Problem with Approval Preferences. *International Journal of Game Theory* 47(3): 767-796 (2018).
6. J. Lang, G. Pigozzi, M. Slavkovik, L. van der Torre, S. Vesic. A Partial Taxonomy of Judgment Aggregation Rules and their Properties. *Social Choice and Welfare* 48(2): 327-356 (2017).
7. S. Bouveret, Y. Chevaleyre, F. Durand, J. Lang: Voting by Sequential Elimination with Few Voters. *26th International Joint Conference on Artificial Intelligence* (IJCAI 2017), 128-134.
8. P. Skowron, P. Faliszewski, J. Lang: Finding a Collective Set of Items: From Proportional Multi-representation to Group Recommendation. *Artificial Intelligence Journal* 241: 191-216 (2016).
9. F. Brandt, V. Conitzer, U. Endriss, J. Lang and A. D. Procaccia, editors. *Handbook of Computational Social Choice*, Cambridge University Press, 2016.
10. E. Elkind, J. Lang, and A. Saffidine. Condorcet Winning Sets. *Social Choice and Welfare* 44(3): 493-517 (2015).