

Group D
Evaluation campaign 2017 – 2018

Research unit

Appendix 4

Unit name: Laboratoire d'Analyse et Modélisation de Systèmes d'Aide à la Décision
Acronym: LAMSADE, UMR 7243

Director's name (current contract): Alexis Tsoukiàs
Director's name (next contract): Daniela Grigori (pending approval)

1 Products of the research

1.1 Journals

The members of the LAMSADE have published 340 articles in international journals. The highlighted contributions are:

1. D. Bouyssou and M. Pirlot. A consolidated approach to the axiomatization of outranking relations: a survey and new results. *Annals of Operations Research*, 229(1):159–212, 2015. ISSN 1572-9338. doi:10.1007/s10479-015-1803-y
2. C. Bazgan, M. Chopin, M. Cygan, M. Fellow, F. Fomin, and E. van Leeuwen. Parameterized complexity of firefighting. *Journal of Computer and System Sciences*, 80(7):1285–1297, 2014. ISSN 0022-0000. doi:10.1016/j.jcss.2014.03.001
3. D. Cornaz and P. Meurdesoif. Chromatic Gallai identities operating on Lovasz number. *Mathematical Programming*, 144(1-2):347–368, 2014. ISSN 0025-5610. doi:10.1007/s10107-013-0636-1

4. F. Abu-Khzam, C. Bazgan, M. Chopin, and H. Fernau. Data reductions and combinatorial bounds for improved approximation algorithms. *Journal of Computer and System Sciences*, 82(3):503–520, 2016. ISSN 0022-0000. doi:10.1016/j.jcss.2015.11.010
5. E. Bonnet, B. Escoffier, E. J. Kim, and V. T. Paschos. On subexponential and fpt-time inapproximability. *Algorithmica*, 71(3):541–565, 2015a. doi:10.1007/s00453-014-9889-1
6. B. Escoffier, L. Gourvès, and J. Monnot. The price of optimum: Complexity and approximation for a matching game. *Algorithmica*, 77(3):836–866, 2017. doi:10.1007/s00453-015-0108-5
7. M. Karpinski, M. Lampis, and R. Schmied. New inapproximability bounds for TSP. *Journal of Computer and System Sciences*, 81(8):1665–1677, Déc. 2015. ISSN 0022-0000. doi:10.1016/j.jcss.2015.06.003
8. F. Furini, V. Gabrel, and I. Ternier. An improved DSATUR-based branch-and-bound algorithm for the vertex coloring problem. *Networks*, 69(1):124–141, 2017. doi:10.1002/net.21716
9. E. Uchoa, A. R. Mahjoub, and L. Simonetti. Hop-level flow formulation for the survivable network design with hop constraints problem. *Networks*, 61(2):171–179, 2013. ISSN 0028-3045. doi:10.1002/net.21483
10. M. Bergner, A. Caprara, A. Ceselli, F. Furini, M. E. Lübbecke, E. Malaguti, and E. Traversi. Automatic dantzig-wolfe reformulation of mixed integer programs. *Math. Program.*, 149(1-2):391–424, 2015. doi:10.1007/s10107-014-0761-5
11. V. Gabrel, M. Lacroix, C. Murat, and N. Remli. Robust location transportation problems under uncertain demands. *Discrete Applied Mathematics*, 164:100–111, 2014a
12. V. Gabrel, C. Murat, and L. Wu. New models for the robust shortest path problem: complexity, resolution and generalization. *Annals OR*, 207(1):97–120, 2013
13. C. Bazgan, F. Jamain, and D. Vanderpooten. Approximate pareto sets of minimal size for multi-objective optimization problems. *Operations Research Letters*, 43(1):1–6, 2015b. ISSN 0167-6377. doi:10.1016/j.orl.2014.10.003

14. C. Bazgan, F. Jamain, and D. Vanderpooten. Discrete representation of the non-dominated set for multi-objective optimization problems using kernels. *European Journal of Operational Research*, 2016d. ISSN 0377-2217. doi: 10.1016/j.ejor.2016.11.020
15. H. Aissi, A. R. Mahjoub, S. T. McCormick, and M. Queyranne. Strongly polynomial bounds for multiobjective and parametric global minimum cuts in graphs and hypergraphs. *Math. Program.*, 154(1-2):3–28, 2015. doi: 10.1007/s10107-015-0944-8
16. K. Dächert, K. Klamroth, R. Lacour, and D. Vanderpooten. Efficient computation of the search region in multi-objective optimization. *European Journal of Operational Research*, 2017. ISSN 0377-2217. doi:10.1016/j.ejor.2016.05.029
17. L. Belhouli, L. Galand, and D. Vanderpooten. An efficient procedure for finding best compromise solutions to the multi-objective assignment problem. *Computers and Operations Research*, 49:97–106, 2014. ISSN 0305-0548. doi:10.1016/j.cor.2014.03.016
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19. V. Gabrel, M. Manouvrier, K. Moreau, and C. Murat. QoS-aware Automatic Syntactic Service Composition problem: complexity and resolution. *Future Generation Computer Systems*, 2017. doi:10.1016/j.future.2017.04.009. To appear
20. J. Camacho-Rodríguez, D. Colazzo, and I. Manolescu. PAXQuery: Efficient parallel processing of complex XQuery. *IEEE Trans. Knowl. Data Eng.*, 27(7):1977–1991, 2015
21. K. Belhajjame, N. W. Paton, C. Hedeler, and A. A. A. Fernandes. Enabling community-driven information integration through clustering. *Distributed and Parallel Databases*, 33(1):33–67, 2015a. doi:10.1007/s10619-014-7160-z
22. R. A. Arocha, M. Rukoz, and Y. Cardinale. Modeling dynamic recovery strategy for composite web services execution. *World Wide Web*, 19(1):89–109, 2016. ISSN 1386-145X. doi:10.1007/s11280-015-0329-1

23. K. Belhajjame, S. Embury, A. Fernandes, C. Hedeler, and N. Paton. Incrementally improving dataspace based on user feedback. *Information Systems*, 38(5):656–687, Juil. 2013. ISSN 0306-4379. doi:10.1016/j.is.2013.01.006
24. T. Cazenave. Residual networks for computer go. *IEEE Transactions on Computational Intelligence and AI in Games*, 2017

The rest of the 20% selection is:

1. V. Gabrel, M. Manouvrier, K. Moreau, and C. Murat. QoS-aware Automatic Syntactic Service Composition problem: complexity and resolution. *Future Generation Computer Systems*, 2017. doi:10.1016/j.future.2017.04.009. To appear
2. E. Awad, M. Caminada, G. Pigozzi, M. Podlaskowski, and I. Rahwan. Pareto optimality and strategy-proofness in group argument evaluation. *Journal of Logic and Computation*, 2017. forthcoming
3. F. Lemos, K. Abbaci, D. Grigori, A. HadjAli, M. Bouzeghoub, L. Liétard, and D. Rocacher. Intégration de préférences dans la découverte et la sélection des services web. *Ingénierie des systèmes d’information*, 17(5):35–56, 2012a. ISSN 2116-7125. doi:10.3166/isi.17.5.35-56
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5. J. Lang, G. Pigozzi, M. Slavkovik, L. van der Torre, and S. Vesic. A partial taxonomy of judgment aggregation rules and their properties. *Social Choice and Welfare*, 48(2):327–356, 2017b. ISSN 1432-217X. doi:10.1007/s00355-016-1006-8
6. J. Rouchier and E. Tanimura. Learning with communication barriers due to overconfidence. what a “model-to-model analysis” can add to the understanding of a problem. *Journal of Artificial Societies and Social Simulation*, 19(2), 2016. ISSN 1460-7425. doi:10.18564/jasss.3039. URL <http://jasss.soc.surrey.ac.uk/19/2/7.html>
7. J. Figueira, S. Greco, B. Roy, and R. Slowinski. An overview of ELECTRE methods and their recent extensions. *Journal of Multi-Criteria Decision Analysis*, 20(1-2):61–85, 2013a. ISSN 1057-9214. doi:10.1002/mcda.1482

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10. A. Rolland, J. Ah-Pine, and B. Mayag. Elicitation of 2-additive bi-capacity parameters. *EURO Journal on Decision Processes*, 3(1):5–28, 2015. ISSN 2193-9438. doi:10.1007/s40070-015-0043-3. URL <https://hal.archives-ouvertes.fr/hal-01201747>
11. C. Labreuche, B. Mayag, and B. Duqueroie. Extension of the MACBETH approach to elicit an ordered weighted average operator. *EURO Journal on Decision Processes*, 3(1):65–105, 2015. ISSN 2193-9438. doi:10.1007/s40070-015-0041-5
12. M. Bottero, V. Ferretti, J. R. Figueira, S. Greco, and B. Roy. Dealing with a multiple criteria environmental problem with interaction effects between criteria through an extension of the electre III method. *European Journal of Operational Research*, 245(3):837–850, 2015. doi:10.1016/j.ejor.2015.04.005
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18. A. Louati, J. E. Haddad, and S. Pinson. A multi-agent approach for trust-based service discovery and selection in social networks. *Scalable Computing: Practice and Experience*, 16(4):381–401, 2015a. doi:10.12694/scpe.v16i4.1129
19. M. Balinski and R. Laraki. Judge: Don’t vote. *Operations Research*, 28:483–511, 2014
20. M. Nunez and R. Sanver. Revisiting the connection between the no-show paradox and monotonicity. *Mathematical Social Sciences*, 86:59–67, 2017. ISSN 0165-4896. doi:10.1016/j.mathsocsci.2017.01.002
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22. L. Gourvès, J. Monnot, and L. Tlilane. Worst case compromises in matroids with applications to the allocation of indivisible goods. *Theoretical Computer Science*, 589:121–140, 2015b. ISSN 0304-3975. doi:10.1016/j.tcs.2015.04.029
23. G. Cesari, R. Lucchetti, and S. Moretti. Generalized additive games. *International Journal of Game Theory*, pages 1–21, 2016
24. R. Giordano, A. Pagano, I. Pluchinotta, and M. Vurro. Drinking water supply in resilient cities: Notes from l’Aquila earthquake case study. *Sustainable Cities and Society*, 28:435–449, 2017. doi:10.1016/j.scs.2016.09.005
25. G. De Marchi, G. Lucertini, and A. Tsoukiàs. From evidence-based policy-making to policy analytics. *Annals of Operations Research*, 236(1):15–38, 2016. ISSN 1572-9338. doi:10.1007/s10479-014-1578-6
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33. G. Gutin, E. J. Kim, A. Soleimanfallah, S. Szeider, and A. Yeo. Parameterized complexity results for general factors in bipartite graphs with an application to constraint programming. *Algorithmica*, 64(1):112–125, Sept. 2012b. ISSN 0178-4617. doi:10.1007/s00453-011-9548-8
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43. V. Cacchiani, F. Furini, and M. P. Kidd. Approaches to a real-world train timetabling problem in a railway node. *Omega*, 58:97 – 110, 2016. ISSN 0305-0483. doi:10.1016/j.omega.2015.04.006
44. V. Gabrel, C. Murat, and A. Thiele. Recent advances in robust optimization: An overview. *European Journal of Operational Research*, 235(3):471–483, 2014c
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49. D. Vanderpooten, L. Weerasena, and M. Wiecek. Covers and approximations in multiobjective optimization. *Journal of Global Optimization*, 67(3):601–619, 2017. ISSN 0925-5001. doi:10.1007/s10898-016-0426-4
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52. J. Figueira, L. Paquete, M. Simoes, and D. Vanderpooten. Algorithmic improvements on dynamic programming for the bi-objective $\{0,1\}$ knapsack problem. *Computational Optimization and Applications*, 56(1):97–111, 2013b. ISSN 0926-6003. doi:10.1007/s10589-013-9551-x
53. L. Galand and O. Spanjaard. Exact algorithms for OWA-optimization in multiobjective spanning tree problems. *Computers and Operations Research*, 39(7):1540–1554, 2012. ISSN 0305-0548. doi:10.1016/j.cor.2011.09.003
54. H. Aissi and D. Vanderpooten. Robust capacity expansion of a network under demand uncertainty: a bi-objective approach. *Networks*, 68(3):185–199, 2016. ISSN 0028-3045. doi:10.1002/net.21691
55. M. A. Aloulou, A. Bouzaïene, N. Dridi, and D. Vanderpooten. A bicriteria two-machine flow-shop serial-batching scheduling problem with bounded batch size. *Journal of Scheduling*, 17(1):17–29, 2014. ISSN 1094-6136. doi:10.1007/s10951-013-0340-2

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57. D. Madakat, J. Morio, and D. Vanderpooten. Biobjective planning of an active debris removal mission. *Acta Astronautica*, 84:182–188, 2013. ISSN 0094-5765. doi:10.1016/j.actaastro.2012.10.038
58. K. Belhajjame, J. Zhao, D. Garijo, M. Gamble, K. M. Hettne, R. Palma, E. Mina, Ó. Corcho, J. M. Gómez-Pérez, S. Bechhofer, G. Klyne, and C. A. Goble. Using a suite of ontologies for preserving workflow-centric research objects. *J. Web Sem.*, 32:16–42, 2015b. doi:10.1016/j.websem.2015.01.003
59. D. Garijo, P. Alper, K. Belhajjame, Ó. Corcho, Y. Gil, and C. A. Goble. Common motifs in scientific workflows: An empirical analysis. *Future Generation Comp. Syst.*, 36:338–351, 2014. doi:10.1016/j.future.2013.09.018
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61. F. Bacall, M. B. Vargas, K. Belhajjame, J. Bhagat, I. Dunlop, D. Fellows, P. Fisher, C. Goble, R. Haines, A. Hardisty, A. Nenadic, A. N. de la Hidalga, S. Owen, S. Soiland-Reyes, S. Sufi, A. Williams, D. Withers, K. Wolstencroft, and K. Belhajjame. The taverna workflow suite: designing and executing workflows of web services on the desktop, web or in the cloud. *Nucleic Acids Research*, 41(W1):W557–W561, 2013. ISSN 0305-1048. doi:10.1093/nar/gkt328
62. K. Belhajjame, S. Embury, A. Fernandes, C. Hedeler, and N. Paton. Incrementally improving dataspace based on user feedback. *Information Systems*, 38(5):656–687, Jul. 2013. ISSN 0306-4379. doi:10.1016/j.is.2013.01.006
63. M. Barhamgi, A. K. Bandara, Y. Yu, K. Belhajjame, and B. Nuseibeh. Protecting privacy in the cloud: Current practices, future directions. *IEEE Computer*, 49(2):68–72, 2016. doi:10.1109/MC.2016.59
64. K. M. Hettne, H. Dharuri, J. Zhao, K. Wolstencroft, K. Belhajjame, S. Soiland-Reyes, E. Mina, M. Thompson, D. Cruickshank, L. Verdes-Montenegro,

- J. Garrido, D. D. Roure, Ó. Corcho, G. Klyne, R. van Schouwen, P. A. C. 't Hoen, S. Bechhofer, C. A. Goble, and M. Roos. Structuring research methods and data with the research object model: genomics workflows as a case study. *J. Biomedical Semantics*, 5:41, 2014. doi:10.1186/2041-1480-5-41
65. I. Bloch and J. Atif. Defining and computing Hausdorff distances between distributions on the real line and on the circle: link between optimal transport and morphological dilations. *Mathematical Morphology: Theory and Applications*, 1(1):79–99, 2016. ISSN 2353-3390. doi:10.1515/mathm-2016-0005
 66. Y. Isaac, Q. Barthélemy, C. Gouy-Pailler, M. Sebag, and J. Atif. Multi-dimensional signal approximation with sparse structured priors using split bregman iterations. *Signal Processing*, 130:389–402, 2017. ISSN 0165-1684. doi:10.1016/j.sigpro.2016.07.013
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 68. T. Cazenave. Residual networks for computer go. *IEEE Transactions on Computational Intelligence and AI in Games*, 2017
 69. L. Linguet and J. Atif. Estimating surface solar irradiance from goes satellite with particle filter model and joint probability distribution. *Canadian Journal of Remote Sensing*, 41(2):71–85, 2015. ISSN 1712-7971. doi:10.1080/07038992.2015.1040150
 70. V. Gabrel, M. Manouvrier, and C. Murat. Web services composition: Complexity and models. *Discrete Applied Mathematics*, 196:100–114, 2015

1.2 Books and chapters

The members of the LAMSADE have published 8 books and have directed the redaction of 3 books. The highlighted contributions are:

1. F. Brandt, V. Conitzer, U. Endriss, J. Lang, and A. D. Procaccia, editors. *Handbook of Computational Social Choice*. Cambridge University Press, 2016

2. S. Beheshti, B. Benatallah, S. Sakr, D. Grigori, H. R. Motahari-Nezhad, M. C. Barukh, A. Gater, and S. H. Ryu. *Process Analytics - Concepts and Techniques for Querying and Analyzing Process Data*. Springer, 2016. ISBN 978-3-319-25036-6. doi:10.1007/978-3-319-25037-3
3. P. Mundler and J. Rouchier. *Alimentation et proximités : Jeux d'acteurs et territoires*. Educagri éditions, 2016. ISBN 979-10-275-0082-6

The members of the LAMSADE have published 44 book chapters. The highlighted contributions are:

1. J. Lang and J. Rothe. *Fair Division of Indivisible Goods*, pages 493–550. Springer-Verlag Berlin Heidelberg, 2016. doi:10.1007/978-3-662-47904-9_8
2. L. Linguet and J. Atif. *A Markov Chain Monte Carlo-based Particle Filter Approach for Spatiotemporal Modelling of an Environmental Process*, pages 617–621. Springer International Publishing, 1 edition, 2016. ISBN 978-3-319-18662-7; 978-3-319-18663-4
3. Y. Meinard. *La biodiversité comme thème de philosophie économique*, pages 319–346. Editions matériologiques, Paris -, 2017. ISBN 978-2-37361-057-4
4. A. Tsoukiàs and H. Ralijaona. Rural road maintenance in madagascar: the genis project. In R. Bisdorff, L. C. Dias, P. Meyer, V. Mousseau, and M. Pirlot, editors, *Evaluation and Decision Models with Multiple Criteria. Case Studies*, pages 453–474. Springer, Berlin Heidelberg -, 2015. ISBN 978-3-662-46815-9
5. S. Guerrand, M. Öztürk-Escoffier, and A. Tsoukiàs. On the use of a multi-criteria decision aiding tool for the evaluation of comfort. pages 475–500. Springer, Berlin Heidelberg -, 2015. ISBN 978-3-662-46815-9. in International Handbooks on Information Systems

The rest of the 20% selection is:

1. A. R. Mahjoub. *Polyhedral Approaches*, pages 261–324. John Wiley & Sons, Inc., 1 edition, 2014. ISBN 9781119005216
2. R. Laraki and S. Sorin. *Handbook of Game Theory*, volume IV, chapter Advances in Zero-Sum Dynamic Games, pages 27–93. North-Holland, 2014
3. C. Hedeler, A. Fernandes, K. Belhajjame, L. Mao, C. Guo, N. Paton, and S. Embury. *A Functional Model for Dataspace Management Systems*, pages 305–341. Springer, Berlin Heidelberg -, 2013. ISBN 978-3-642-28322-2

1.3 Proceedings and articles in proceedings

The members of the LAMSADE have participated to the edition of 13 conference proceedings. The highlighted contributions are related to the conferences ISCO and ADT:

1. R. Cerulli, S. Fujishige, and A. R. Mahjoub, editors. *Combinatorial Optimization - 4th International Symposium, ISCO 2016, Vietri sul Mare, Italy, May 16-18, 2016, Revised Selected Papers*, volume 9849 of *Lecture Notes in Computer Science*, 2016. Springer. ISBN 978-3-319-45586-0. doi: 10.1007/978-3-319-45587-7
2. P. Perny, M. Pirlot, and A. Tsoukiàs, editors. *Algorithmic Decision Theory - Third International Conference, ADT 2013, Bruxelles, Belgium, November 12-14, 2013, Proceedings*, volume 8176 of *Lecture Notes in Computer Science*, 2013. Springer. ISBN 978-3-642-41574-6. doi:10.1007/978-3-642-41575-3

The members of the LAMSADE have contributed to 337 articles in conference proceedings. The highlighted contributions are:

1. S. Airiau, E. Bonzon, U. Endriss, N. Maudet, and J. Rossit. Rationalisation of profiles of abstract argumentation frameworks. In J. Thangarajah, K. Tuyls, C. M. Jonker, and S. Marsella, editors, *Proceedings of the 15th International Conference on Autonomous Agents and Multiagent Systems (AAMAS-2016)*, pages 350–357. IFAAMAS, 2016. Best Paper Award
2. T. Cazenave. Generalized rapid action value estimation. In M. W. Qiang Yang, editor, *IJCAI'15 Proceedings of the 24th International Conference on Artificial Intelligence*, pages 754–760, Palo Alto (USA) -, 2015. AAAI Press
3. É. Bonnet, M. Lampis, and V. T. Paschos. Time-approximation trade-offs for inapproximable problems. In *33rd Symposium on Theoretical Aspects of Computer Science, STACS 2016, February 17-20, 2016, Orléans, France*, pages 22:1–22:14, 2016. doi:10.4230/LIPIcs.STACS.2016.22
4. M. Lampis. Parameterized approximation schemes using graph widths. In J. Esparza, P. Fraigniaud, T. Husfeldt, and E. Koutsoupias, editors, *Automata, Languages, and Programming 41st International Colloquium, ICALP 2014, Copenhagen, Denmark, July 8-11, 2014, Proceedings, Part I*, pages 775–786. Springer Berlin Heidelberg, 2014

5. F. N. Abu-Khzam, C. Bazgan, J. E. Haddad, and F. Sikora. On the complexity of QoS-aware service selection problem. In A. Barros, D. Grigori, N. C. Narendra, and H. K. Dam, editors, *Service-Oriented Computing. 13th International Conference, ICSOC 2015, Goa, India, November 16-19, 2015, Proceedings*, pages 345–352. Springer Berlin Heidelberg, 2015
6. M. Bojarski, A. Choromanska, K. Choromanski, F. Fagan, C. Gouy-Pailler, A. Morvan, N. Sakr, T. Sarlos, and J. Atif. Structured adaptive and random spinners for fast machine learning computations. In *AISTATS 2017. JMLR: Workshop and Conference Proceedings*, 2017
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8. J. Camacho-Rodríguez, D. Colazzo, and I. Manolescu. PAXQuery: A massively parallel XQuery processor. In *Proceedings of the Third Workshop on Data analytics in the Cloud, DanaC, Snowbird, Utah, USA, In conjunction with ACM SIGMOD/PODS Conference*, pages 6:1–6:4, 2014

The rest of the 20% selection is:

1. A. Louati, J. E. Haddad, and S. Pinson. A multilevel agent-based approach for trustworthy service selection in social networks. In *2014 IEEE/WIC/ACM International Joint Conferences on Web Intelligence (WI) and Intelligent Agent Technologies (IAT)*, pages 214–221, Piscataway, NJ -, Aout 2014b. IEEE
2. A. Louati, J. E. Haddad, and S. Pinson. A distributed decision making and propagation approach for trust-based service discovery in social networks. In P. Zaraté, G. E. Kersten, and J. E. Hernández, editors, *Joint INFORMS-GDN and EWG-DSS International Conference on Group Decision and Negotiation (GDN 2014), Toulouse, France, June 2014,*, pages 262–269, Berlin Heidelberg -, 2014a. Springer
3. A. Louati, J. E. Haddad, and S. Pinson. Towards agent-based and trust-oriented service discovery approach in social networks. In R. Cohen, R. Falcone, and T. J. Norman, editors, *17th International Workshop on Trust in Agent Societies co-located with the 13th International Conference on Autonomous Agents and Multiagent Systems (TRUST@AAMAS 2014), Paris, France*, pages 78–89. CEUR Workshop Proceedings 1740, 2014c
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5. M. Harmassi, D. Grigori, and K. Belhajjame. Mining workflow repositories for improving fragments reuse. In J. S. Cardoso, F. Guerra, G. Houben, A. M. Pinto, and Y. Velegrakis, editors, *Semantic Keyword-Based Search on Structured Data Sources - First COST Action IC1302 International KEYSTONE Conference, IKC 2015, Coimbra, Portugal, September 8-9, 2015. Revised Selected Papers*, volume 9398 of *Lecture Notes in Computer Science*, pages 76–87. Springer, 2015. doi:10.1007/978-3-319-27932-9_7
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 9. F. Lemos, A. Gater, D. Grigori, and M. Bouzeghoub. A framework for service discovery based on structural similarity and quality satisfaction. In R. Tolksdorf, editor, *Web Engineering 12th International Conference, ICWE 2012, Berlin, Germany, July 23-27, 2012, Proceedings*, page 505, Berlin Heidelberg -, 2012b. Springer
 10. P. Delias, D. Grigori, M. Mouhoub, and A. Tsoukiàs. *Discovering Characteristics that Affect Process Control Flow*, pages 51–63. Springer, Berlin Heidelberg -, 2015. ISBN 978-3-319-21535-8. Lecture Notes in Business Information Processing, vol. 221
 11. M. A. Baazizi, H. B. Lahmar, D. Colazzo, G. Ghelli, and C. Sartiani. Schema inference for massive JSON datasets. In *Proceedings of the 20th International*

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12. A. Colorni and A. Tsoukiàs. What is a decision problem? preliminary statements. In P. Perny, M. Pirlot, and A. Tsoukiàs, editors, *Algorithmic Decision Theory Third International Conference, ADT 2013, Bruxelles, Belgium, November 12-14, 2013, Proceedings*, pages 139 – 153, Berlin Heidelberg -, 2013. Springer. LNCS 8176
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21. D. Fotakis, M. Lampis, and V. T. Paschos. Sub-exponential approximation schemes for csp: From dense to almost sparse. In *33rd Symposium on Theoretical Aspects of Computer Science, STACS 2016, February 17-20, 2016, Orléans, France*, pages 37:1–37:14, 2016b. doi:10.4230/LIPICs.STACS.2016.37
22. J. Jeong, E. J. Kim, and S. Oum. Constructive algorithm for path-width of matroids. In *Proceedings of the Twenty-Seventh Annual ACM-SIAM Symposium on Discrete Algorithms, SODA 2016, Arlington, VA, USA, January 10-12, 2016*, pages 1695–1704, 2016. doi:10.1137/1.9781611974331.ch116
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24. J. Lang, J. Monnot, A. Slinko, and W. S. Zwicker. Beyond electing and ranking: Collective dominating chains, dominating subsets and dichotomies. In *Proceedings of the 16th Conference on Autonomous Agents and MultiAgent Systems, AAMAS 2017, São Paulo, Brazil, May 8-12, 2017*, pages 24–32, 2017a
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 44. M. L. Mouhoub, D. Grigori, and M. Manouvrier. Lidsearch: A sparql-driven framework for searching linked data and semantic web services. In F. Gandon, C. Guéret, S. Villata, J. Breslin, C. Faron-Zucker, and A. Zimmermann, editors, *The Semantic Web: ESWC 2015 Satellite Events. ESWC 2015 Satellite Events, Portorož, Slovenia, May 31 ,À June 4, 2015, Revised Selected Papers*, pages 112–117. Springer International Publishing, 2015. LNCS 9341
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P. Angelov, Y. Manolopoulos, L. Iliadis, A. Roy, and M. Vellasco, editors, *Advances in Big Data - Proceedings of the 2nd INNS Conference on Big Data, October 23-25, 2016, Thessaloniki, Greece*, pages 50–60. Springer International Publishing, 2016b

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1.4 Instrumental and methodological developments

1.5 Softwares and experiments

Highlights: Two members of the LAMSADE have participated to two national experiments related to the French presidential elections of 2017.

1. Rida Laraki has participated with *primaire.org* to an experiment on a voting rule (majority judgment) on the internet
2. Jérôme Lang, via the ANR project COCORICO, has participated to an experiment called “Voter Autrement 2017” which is about the French presidential election

The other contributions are: Daniela Grigori has produced a software for the aggregate search of data and services which has been presented at the conference ESWC’15. Dario Colazzo has participated to the development of *Andromeda* and the systems *Paxquery* and *Pigreuse*. Members of the LAMSADE such as Michel Zam, Brice Mayag and Alexis Tsoukiàs, are involved in a platform for software tools for decision problems called *DECISION DECK*. Hassene Aissi has developed a decision aid tool for the planification of ad campaigns (for a compagny called OMNICODE). Florian Sikora has developed a software for a challenge, see <https://pacechallenge.wordpress.com/>.

1.6 Patents, licences and invention

1.7 Reports of technical expertise, products of instances of normalisation

1.8 Products of didactic activities

Rida Laraki used his experience in teaching game theory to write a book entitled “Bases Mathématiques de la Théorie des Jeux” R. Laraki, J. Renault, and S. Sorin. *Bases Mathématiques de la Théorie des Jeux*. Editions de l’Ecole Polytechnique, 2013.

1.9 Products for the general public

Highlights: Two members of the LAMSADE have been significantly solicited by the medias.

1. Tristan Cazenave has been sollicitated by the following medias about Alphago, Deep learning and Game playing: *TF1, France 5, LCP, France Info, Radio Canada, Korean Television, Le Monde, and Le Figaro*
2. Rida Laraki has been present in medias such as *Pour la Science, Rue89, Terra Nova, The Conversation France, The Conversation USA, and Commentaire*, about election systems . Rida Laraki has made a popularizing video on Youtube (seen more than 20.000 times): <https://www.youtube.com/watch?v=ODuPoepQ1tY>. See also <https://www.youtube.com/watch?v=ZoGH7d51bvc> where he appears (seen more than 578.000 times). Rida Laraki was interviewed by *le Parisien, RFI, RTL, Le Monde, Causette, Science et vie, Science et avenir*. He also contributed to the MIT Press Blog in 2012.

Besides, Jérôme Lang has signed an article in *Libération* “Vers la fin du scrutin majoritaire à deux tours ?” in April 2017. Juliette Rouchier has signed in 2016 an article in *Libération*: “Marseille dans la dynamique de la méfiance”.

In 2012, a video presenting the Lamsade has been made and put on the website of the lab. Maude Manouvrier has participated to the popularization of her work to the API Days 2013, “des acteurs de l’écosystème des APIs, du Cloud Computing et du Bigdata” Paris, december 2013, video available at <https://www.youtube.com/watch?v=CfZ3McBJU-U>. Elsa Negre and Eunjung Kim have written an article for Dauphine Recherches in 2016 and 2017, respectively. Elsa Negre also has an article in CGE Grand Angle, in 2017. Florian Sikora has participated to “Classe

à Paris” <https://www.espgg.org/Classe-a-Paris>. Laurent Gourvès, Julien Lesca and Anaëlle Wilczynski made a short presentation of their ECAI 2016 article on the website of INS2I. Stefano Moretti has written an article “Comment le Lamsade a-t-il établi le mode de scrutin de PSL ?”, published in june 2015 in the online magazine education.newstank.fr. Jamal Atif has been interviewed on the courses on Big data in a blog called Business & Decision. He was invited to debate on Data sciences and automatic learning at the annual convention of *Square*, 2016.

1.10 Other products which are specific to a discipline

2 Research activities and indices of recognition

2.1 Editorial activity

Some members of the Lamsade are in the editorial board of scientific journals:

The 20% selection is:

1. Mathematical Social Sciences (Remzi Sanver & Denis Bouyssou)
2. International Journal of Game Theory (Rida Laraki)
3. Social Choice and Welfare (Remzi Sanver & Jérôme Lang)
4. Theoretical Computer Science (Vangelis Paschos)
5. European Journal of Operational Research (Vangelis Paschos & Bernard Roy)
6. EURO Journal on Decision Processes (Alexis Tsoukiàs & Bernard Roy & Denis Bouyssou)
7. Operational Research: An International Journal (Vangelis Paschos & Bernard Roy & Denis Bouyssou)

The rest is:

1. Studies in Economic Design (Remzi Sanver)
2. Theory and Decision (Remzi Sanver)
3. INFORMS Journal on Decision Analysis (Alexis Tsoukiàs)
4. Journal of Discrete Algorithms (Vangelis Paschos)
5. Computers and Industrial Engineering (Vangelis Paschos)

6. RAIRO - Operations Research (Ridha Mahjoub & Vangelis Paschos & Rida Laraki)
7. Foundations of Computing and Decision Sciences (Vangelis Paschos)
8. Yugoslav Journal of Operations Research (Vangelis Paschos)
9. Journal of Multicriteria Decision Making in Economics & Finance (Vangelis Paschos & Denis Bouyssou)
10. Botanique (Yves Meinard)
11. Ingenierie des Systemes d'Information (Daniela Grigori)
12. International Journal of Multicriteria Decision Making (Daniel Vanderpooten & Bernard Roy)
13. Computers and Industrial Engineering (Ridha Mahjoub)
14. EURO Journal on Computational Optimization (Ridha Mahjoub)
15. International Computer Games Association Journal (Tristan Cazenave)
16. Game and Puzzle Design (Tristan Cazenave)
17. Journal of Industrial Engineering (Jully Jeunet)
18. Journal of Project Management (Jully Jeunet)
19. Journal of Artificial Intelligence Research (Jérôme Lang)
20. Artificial Intelligence Journal (Jérôme Lang, until 2016)
21. Autonomous Agents and Multi-Agent Systems (Jérôme Lang)
22. Journal of Dynamics and Games (Rida Laraki)
23. IJ FPRM (Bernard Roy)
24. Journal of Multi-Criteria Decision Analysis (Bernard Roy)
25. Journal of Computational Optimization in Economics and Finance (Denis Bouyssou)

Some members of the Lamsade are also involved in special issues:

1. International Journal of Decision Support System Technology (Elsa Negre 2015)
2. Journal of Data Mining and Knowledge Discovery (Benjamin Negrevergne, 2017)
3. Annals of Operations Research (Fabio Furini)
4. Journal of Philosophical Logic (J. Lang 2015)
5. Synthese (J. Lang 2013)
6. International Journal of Game Theory (J. Lang 2013)
7. Revue d'intelligence artificielle (J. Lang 2012)
8. ICT-based Strategies for Environmental Conflicts (S. Moretti 2014)
9. Journal of Logic and Computation (G. Pigozzi 2013)

2.2 Evaluation

Members of the LAMSADE are involved in many evaluation processes, and in various contexts: institutions, teams and labs (HCERES) and projects (ANR, Swiss National Science Foundation, Netherlands Organisation for Scientific Research). Besides the editorial activity presented in the previous section, every year, every permanent member of the LAMSADE invests time in voluntary peer reviews of research articles submitted to international and national journals and conference of his/her field.

2.3 Scientific expertise

Meltem Öztürk and Brice Mayag have been working in collaboration with the SNCF. Brice Mayag also worked as an expert for the “Haute Autorité de Santé” from 09/15/2013 to 06/30/2014. Yves Meinard has collaborated with the departments “Charente-Maritime” and “Ille-et-Vilaine”, GEREKO SARL. Daniel Vanderpooten has been working with the DCNS (2012, 2014-2017). Dario Colazzo, Jamal Atif and Florian Yger had a contract with *Adway*. Hassene Aissi has worked with OM-NICOM.

2.4 Organization of scientific events

The following scientific events were organized by members of the LAMSADE. The highlighted events are international conferences: ISCO, ICSOC, and SING.

- International conferences:
 1. SING13 Paris by Stefano Moretti (chair)
 2. CIAC 2015 and 2017 (Vangelis Paschos)
 3. APEX 2012 and 2013 (Vangelis Paschos)
 4. JGA 2016 (C. Bazgan and F.Sikora)
 5. 3 editions of KMIKS (Knowledge, Management, Information and Knowledge System) April 2013, 2015, and 2017 (C. Rosenthal-Sabroux)
 6. ISCO 2012, 2014, 2016 (R. Mahjoub)
 7. ECCO XXVI 2013 (B. Ries, D. Cornaz)
 8. ICSOC 2014 (D. Grigori & M. Manouvrier)
 9. International Conference on Game Theory, State University of New York at Stony Brook, July 15-19 2012 (R. Laraki)
 10. Mathematical Aspects of Game Theory and Applications, June 30 to July 4 2014, Roscoff, France (R. Laraki)
- National events:
 1. EDA 2014 (Vichy) by Elsa Negre
 2. JGA 2016 (C. Bazgan and F. Sikora)
- Workshops
 1. Workshop on games, algorithms and optimization in june 2013 (L. Gourvès)
 2. Workshop “Théorie algorithmique de la décision et des jeux” in september 2015 and november 2016 (S. Moretti)
 3. Journée de Théorie du Choix Social et de l’Agrégation des Jugements (GREGHEC-LAMSADE) in april 2012 (G. Pigozzi)
 4. 2 colloquia at DIMACS in september 2013 and april 2014 (A. Tsoukiàs)
 5. Peace studies workshops in 2013 and 2015 (Öztürk & Tsoukiàs)
 6. Judgment Aggregation for Artificial Intelligence at Schloss Dagstuhl, May 2014 (G. Pigozzi)

7. Fair Division at Schloss Dagstuhl in June 2016 (J. Lang)
 8. Games and Strategy in Paris. International Conference for Sylvain Sorin sixties. Institut Henri Poincaré, June 11-13, 2012
 9. Fair Decisions: In Celebration of Michel Balinski's 2013 von Neumann Theory Prize, February 11, 2014, Ecole Polytechnique, (R. Laraki)
 10. Celebration in honor of Michel Balinski's 78 years, State University of New York at Stony Brook, July 17-18 2012 (R. Laraki)
 11. Journée des Anciens Theoriciens du Laboratoire d'Econometrie de l'Ecole Polytechnique, 8 Octobre 2015 (R. Laraki)
- Doctoral schools
 1. Spring school on Algorithmic Game Theory in June 2013 (L. Gourvès)
 - Seminars
 1. Journées franciliennes de la recherche opérationnelle (F. Sikora & L. Galand)

2.5 Post-docs & hosted researchers

The LAMSADE has hosted (or is currently hosting) the following list of post-doctoral researchers:

1. Diodato Ferraioli (ANR COCA),
2. Irene Pluchinotta (INDOPP , PSL),
3. Giovanna Fancello (MAPP, PSL),
4. Abhinav Srivastav (MULTIFAC, PSL),
5. Arman Boyaci (PHC),
6. Diana Sasaki (Brazilian Grant),
7. George Stamoulis (Swiss Grant),
8. Fabien Teytaud (ANR EXPLO-RA),
9. Kerstin Dächert (PHC),
10. Giovanni Sileno (ANR LOGIMA),

11. Giulia Lucertini (Ineris),
12. De Almada Sanchez Ricardo (ANR LOGIMA),
13. François Durand (ANR COCORICO).

On the basis of propositions by the members of the LAMSADE, 3 renown researchers became Doctor Honoris Causa of the université Paris-Dauphine: Fred Roberts (Rutgers), Claudia Bauzer Meideros (IC UNICAMP), and Christos Papadimitriou (UC Berkeley).

Between 2012 and 2017, the LAMSADE has received 84 invited professors for 97 months. These collaborations yielded the following selection of publications:

1. L. A. M. C. Carvalho, K. Belhajjame, and C. B. Medeiros. Converting scripts into reproducible workflow research objects. In *12th IEEE International Conference on e-Science, e-Science 2016, Baltimore, MD, USA, October 23-27, 2016*, pages 71–80. IEEE, 2016. doi:10.1109/eScience.2016.7870887
2. C. Constantin, C. du Mouza, W. Litwin, P. Rigaux, and T. J. E. Schwarz. As-index: A structure for string search using n-grams and algebraic signatures. *J. Comput. Sci. Technol.*, 31(1):147–166, 2016. doi:10.1007/s11390-016-1618-6
3. R. Angarita, Y. Cardinale, and M. Rukoz. Faceta: Backward and forward recovery for execution of transactional composite WS. In E. Simperl, B. Norton, D. Mladenice, E. D. Valle, I. Fundulaki, A. Passant, and R. Troncy, editors, *The Semantic Web: ESWC 2012 Satellite Events - ESWC 2012 Satellite Events, Heraklion, Crete, Greece, May 27-31, 2012. Revised Selected Papers*, volume 7540 of *Lecture Notes in Computer Science*, pages 343–357. Springer, 2012. doi:10.1007/978-3-662-46641-4_26
4. G. Cesari, R. Lucchetti, and S. Moretti. Generalized additive games. *International Journal of Game Theory*, pages 1–21, 2016
5. L. Gourvès, J. Monnot, and A. Pagourtzis. The lazy bureaucrat problem with common arrivals and deadlines: Approximation and mechanism design. In L. A. Gasieniec and F. Wolter, editors, *Fundamentals of Computation Theory - 19th International Symposium, FCT 2013, Liverpool, UK, August 19-21, 2013. Proceedings*, pages 171–182, Berlin Heidelberg -, 2013. Springer. in Springer series Lecture Notes in Computer Science, vol. 8070

6. S. Moretti and F. Patrone. Ict-based strategies for environmental conflicts. *Strategic Behavior and the Environment*, 4(2):89–98, 2014. ISSN 1944-012X. doi:10.1561/102.000000036
7. B. Ries, D. Cornaz, T. Ekim, and F. Bonomo. Perfectness of clustered graphs. *Discrete Optimization*, 10(4):296–303, 2013. ISSN 1572-5286. doi:10.1016/j.disopt.2013.07.006
8. A. Darmann, E. Elkind, S. Kurz, J. Lang, J. Schauer, and G. J. Woeginger. Group activity selection problem. In *Internet and Network Economics - 8th International Workshop, WINE 2012, Liverpool, UK, December 10-12, 2012. Proceedings*, pages 156–169, 2012. doi:10.1007/978-3-642-35311-6_12
9. C. Bazgan, M. Chopin, M. Cygan, M. Fellow, F. Fomin, and E. van Leeuwen. Parameterized complexity of firefighting. *Journal of Computer and System Sciences*, 80(7):1285–1297, 2014. ISSN 0022-0000. doi:10.1016/j.jcss.2014.03.001
10. S. Jajodia, W. Litwin, and T. J. E. Schwarz. Trusted cloud SQL DBS with on-the-fly AES decryption/encryption. In *2016 IEEE International Conference on Big Data, BigData 2016, Washington DC, USA, December 5-8, 2016*, pages 3666–3675, 2016. doi:10.1109/BigData.2016.7841034
11. H. Aissi, A. R. Mahjoub, S. T. McCormick, and M. Queyranne. A strongly polynomial time algorithm for multicriteria global minimum cuts. In J. Lee and J. Vygen, editors, *Integer Programming and Combinatorial Optimization 17th International Conference, IPCO 2014, Bonn, Germany, June 23-25, 2014. Proceedings*, pages 25–36, Berlin Heidelberg -, 2014. Springer
12. V. Gabrel, C. Murat, and A. Thiele. Recent advances in robust optimization: An overview. *European Journal of Operational Research*, 235(3):471–483, 2014c
13. A. Agnetis, L. Fu, and M. A. Aloulou. Coordination of production and interstage batch delivery with outsourced distribution. *European Journal of Operational Research*, 238(1):130–142, 2014. ISSN 0377-2217. doi:10.1016/j.ejor.2014.03.039
14. H. AbouEisha, S. Hussain, V. Lozin, J. Monnot, and b. Ries. A dichotomy for upper domination in monogenic classes. In Z. Zhang, L. Wu, W. Xu, and D.-Z. Du, editors, *Combinatorial Optimization and Applications. 8th International Conference, COCOA 2014, Wailea, Maui, HI, USA, December 19-21,*

- 2014, *Proceedings*, pages 258–267. Springer International Publishing, 2014. in Lecture Notes in Computer Science, vol. 8881
15. D. Bouyssou, T. Marchant, M. Pirlot, A. Tsoukiàs, and P. Vincke. Aiding to decide: Concepts and issues. In R. Bisdorff, L. C. Dias, P. Meyer, V. Mousseau, and M. Pirlot, editors, *Evaluation and Decision Models with Multiple Criteria. Case Studies*, pages 17–34. Springer, Boston, 2015a
 16. N. Bourgeois, A. Giannakos, G. Lucarelli, I. Milis, and V. T. Paschos. Exact and approximation algorithms for densest k -subgraph. In *WALCOM: Algorithms and Computation, 7th International Workshop, WALCOM 2013, Kharagpur, India, February 14-16, 2013. Proceedings*, pages 114–125, 2013. doi:10.1007/978-3-642-36065-7_12
 17. E. Angelelli, C. Bazgan, M. G. Speranza, and Z. Tuza. Complexity and approximation for traveling salesman problems with profits. *Theoretical Computer Science*, 531:54–65, 2014. ISSN 0304-3975. doi:10.1016/j.tcs.2014.02.046
 18. D. Bouyssou, T. Marchant, M. Pirlot, A. Tsoukiàs, and P. Vincke. Building recommendations. In R. Bisdorff, L. C. Dias, P. Meyer, V. Mousseau, and M. Pirlot, editors, *Evaluation and Decision Models with Multiple Criteria. Case Studies*, pages 89–113. Springer, Berlin Heidelberg -, 2015b. in International Handbooks on Information Systems
 19. K. Klamroth, R. Lacour, and D. Vanderpooten. On the representation of the search region in multi-objective optimization. *European Journal of Operational Research*, 245(3):767–778, 2015. ISSN 0377-2217. doi:10.1016/j.ejor.2015.03.031. URL <http://arxiv.org/abs/1502.06111>
 20. C. Bazgan, J. Chlebikova, and T. Pontoizeau. New insight into 2-community structures in graphs with applications in social networks. In Z. Lu, D. Kim, W. Wu, W. Li, and D.-Z. Du, editors, *Combinatorial Optimization and Applications - 9th International Conference, COCOA 2015*, pages 236–250, Berlin Heidelberg -, 2015a. Springer. in Springer series Lecture Notes in Computer Science, Vol 9486
 21. P. Seymour, B. Birand, G. Zussman, Y. Zwols, M. Chudnovsky, and B. Ries. Analyzing the performance of greedy maximal scheduling via local pooling and graph theory. *IEEE/ACM Transactions on Networking*, 20(1):163–176, 2012. ISSN 1063-6692. doi:10.1109/TNET.2011.2157831

22. M. Dall’Aglio, V. Fragnelli, and S. Moretti. Orders of criticality in voting games. *Operations Research and Decisions*, 26(2):53–67, 2016. ISSN 2081-8858. doi:10.5277/ord160204
23. F. Abu-Khzam, C. Bazgan, M. Chopin, and H. Fernau. Data reductions and combinatorial bounds for improved approximation algorithms. *Journal of Computer and System Sciences*, 82(3):503–520, 2016. ISSN 0022-0000. doi:10.1016/j.jcss.2015.11.010
24. J. Lang, J. Monnot, A. Slinko, and W. S. Zwicker. Beyond electing and ranking: Collective dominating chains, dominating subsets and dichotomies. In *Proceedings of the 16th Conference on Autonomous Agents and MultiAgent Systems, AAMAS 2017, São Paulo, Brazil, May 8-12, 2017*, pages 24–32, 2017a
25. D. Cornaz, F. Furini, and E. Malaguti. Solving vertex coloring problems as maximum weight stable set problems. *Discrete Applied Mathematics*, 217, Part 2:151 – 162, 2017. ISSN 0166-218X. doi:10.1016/j.dam.2016.09.018
26. L. Faria, L. Gourvès, C. Martinhon, and J. Monnot. The edge-recoloring cost of monochromatic and properly edge-colored paths and cycles. *Theoretical Computer Science*, 602:89–102, 2015. ISSN 0304-3975. doi:10.1016/j.tcs.2015.08.016
27. C. Bazgan, A. Nichterlein, and R. Niedermeier. A refined complexity analysis of finding the most vital edges for undirected shortest paths. In V. T. Paschos and P. Widmayer, editors, *Algorithms and Complexity - 9th International Conference, CIAC 2015*, pages 47–60, Berlin Heidelberg -, 2015c. Springer. in Springer series Lecture Notes in Computer Science, Vol. 9079
28. A. Agnetis, M. A. Aloulou, L. Fu, and M. Y. Kovalyov. Two faster algorithms for coordination of production and batch delivery: A note. *European Journal of Operational Research*, 241(3):927–930, 2015. doi:10.1016/j.ejor.2014.10.005
29. P. Delias, D. Grigori, M. Mouhoub, and A. Tsoukiàs. *Discovering Characteristics that Affect Process Control Flow*, pages 51–63. Springer, Berlin Heidelberg -, 2015. ISBN 978-3-319-21535-8. Lecture Notes in Business Information Processing, vol. 221

30. G. Greco and J. Lang. Group decision making via weighted propositional logic: Complexity and islands of tractability. In *Proceedings of the Twenty-Fourth International Joint Conference on Artificial Intelligence, IJCAI 2015, Buenos Aires, Argentina, July 25-31, 2015*, pages 3008–3014, 2015
31. H. Aissi, A. R. Mahjoub, S. T. McCormick, and M. Queyranne. A strongly polynomial time algorithm for multicriteria global minimum cuts. In J. Lee and J. Vygen, editors, *Integer Programming and Combinatorial Optimization 17th International Conference, IPCO 2014, Bonn, Germany, June 23-25, 2014. Proceedings*, pages 25–36, Berlin Heidelberg -, 2014. Springer
32. T. Pepels, T. Cazenave, and M. H. M. Winands. Sequential halving for partially observable games. In *Computer Games - Fourth Workshop on Computer Games, CGW 2015, and the Fourth Workshop on General Intelligence in Game-Playing Agents, GIGA 2015, Held in Conjunction with the 24th International Conference on Artificial Intelligence, IJCAI 2015, Buenos Aires, Argentina, July 26-27, 2015, Revised Selected Papers*, pages 16–29, 2015. doi:10.1007/978-3-319-39402-2_2
33. D. Vanderpooten, L. Weerasena, and M. Wiecek. Covers and approximations in multiobjective optimization. *Journal of Global Optimization*, 67(3):601–619, 2017. ISSN 0925-5001. doi:10.1007/s10898-016-0426-4
34. E. J. Kim, M. Milanic, and O. Schaudt. Recognizing k-equistable graphs in FPT time. In *Graph-Theoretic Concepts in Computer Science - 41st International Workshop, WG 2015, Garching, Germany, June 17-19, 2015, Revised Papers*, pages 487–498, 2015a. doi:10.1007/978-3-662-53174-7_34
35. C. Bazgan, L. Brankovic, K. Casel, H. Fernau, K. Jansen, K. Klein, M. Lampis, M. Liedloff, J. Monnot, and V. T. Paschos. Upper domination: Complexity and approximation. In *Combinatorial Algorithms - 27th International Workshop, IWOCA 2016, Helsinki, Finland, August 17-19, 2016, Proceedings*, pages 241–252, 2016c. doi:10.1007/978-3-319-44543-4_19
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38. C. Bazgan, L. Brankovic, K. Casel, H. Fernau, K. Jansen, K. Klein, M. Lampis, M. Liedloff, J. Monnot, and V. T. Paschos. Algorithmic aspects of upper domination: A parameterised perspective. In *Algorithmic Aspects in Information and Management - 11th International Conference, AAIM 2016, Bergamo, Italy, July 18-20, 2016, Proceedings*, pages 113–124, 2016b. doi:10.1007/978-3-319-41168-2_10
39. M. A. Baazizi, H. B. Lahmar, D. Colazzo, G. Ghelli, and C. Sartiani. Schema inference for massive JSON datasets. In *Proceedings of the 20th International Conference on Extending Database Technology, EDBT 2017, Venice, Italy, March 21-24, 2017.*, pages 222–233, 2017. doi:10.5441/002/edbt.2017.21
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45. H. Aziz, S. Bouveret, J. Lang, and S. Mackenzie. Complexity of manipulating sequential allocation. In *Proceedings of the Thirty-First AAAI Conference on Artificial Intelligence, February 4-9, 2017, San Francisco, California, USA.*, pages 328–334, 2017
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47. U. Endriss, U. Grandi, R. de Haan, and J. Lang. Succinctness of languages for judgment aggregation. In *Principles of Knowledge Representation and Reasoning: Proceedings of the Fifteenth International Conference, KR 2016, Cape Town, South Africa, April 25-29, 2016.*, pages 176–186, 2016
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50. A. Frangioni, F. Furini, and C. Gentile. Approximated perspective relaxations: a project and lift approach. *Comp. Opt. and Appl.*, 63(3):705–735, 2016. doi:10.1007/s10589-015-9787-8
51. M. Bojarski, A. Choromanska, K. Choromanski, F. Fagan, C. Gouy-Pailler, A. Morvan, N. Sakr, T. Sarlos, and J. Atif. Structured adaptive and random spinners for fast machine learning computations. In *AISTATS 2017. JMLR: Workshop and Conference Proceedings*, 2017
52. M. A. Baazizi, H. B. Lahmar, D. Colazzo, G. Ghelli, and C. Sartiani. Schema inference for massive JSON datasets. In *Proceedings of the 20th International*

Conference on Extending Database Technology, EDBT 2017, Venice, Italy, March 21-24, 2017., pages 222–233, 2017. doi:10.5441/002/edbt.2017.21

2.6 Interactions with socio-economic players

Dario Colazzo, Jamal Atif and Florian Yger had a contract with *Adway*. Hassene Aissi has worked with OMNICO.

The following table provides the PhD thesis whose candidate is/was supported with a CIFRE grant.

Cifre Grants		
Supervisor(s) at LAMSADE	PhD Student	Compagny
W. Litwin	R. Haddad	Syrokko
V. Giard	M. Sali	Reginov
M. Öztürk	L. Mammeri	SNCF
R. Mahjoub	A. Benhamiche	Orange
T. Cazenave	A. Menif	Sagem/Fondation St Cyr
D. Vanderpooten	S. Kaddani	DCNS
V. Giard	C. Chatras	Reginov
C. Rosenthal-Sabroux	L. Atif	Talent Soft
D. Colazzo	P-H. Perrin	Treize 37
V. Gabrel & F. Furini	X. Chen	Decision Brain
A. Tsoukiàs	R. Touret	Meta Conseil
R. Mahjoub	Y. Naghmouchi	Orange
C. Bazgan	P. Baujean	Orange
D. Grigori	Z. Aloulén	Agilab
F. Furini & I. Ljubic	A. Mouaci	Orange
A. Tsoukiàs & B. Mayag & Y. Meinard	A. Richard	Hôpitaux de Lyon
D. Colazzo & E. Negre	Z. Vahidi Ferdoussi	Coheris

2.7 Contracts funded by public institutions or charitable institutions

The LAMSADE is involved, mainly as coordinator, of the following projects:

1. European and international contracts:
 - a) France-Berkeley Funds (V. Paschos), sept. 2015 - aug. 2016

- b) European Project Pierre et Marie Curie GEO-Safe (V. Paschos) 2016-2020
- c) NSF project with the DIMACS (MPE13+, A. Tsoukiàs)
- d) Wolfgang Pauli Institute Thematic Program (Austria) 2017 (Eunjung Kim)
- e) Participation to a project STIC Amsud (O. Cailloux) oct. 2016 - sept. 2018
- f) G. Pigozzi is partner in a project of DFG SEGA (sept. 2016-2019)
- g) Coordination of a France-Chile project 2015-2018 (R. Laraki)
- h) 2010-2013 Participation to a bi-national project CAPES-COFECUB AMIB (M. Rukoz)
- i) 2012, Responsible in France with Yudith Cardinale (Venezuela) of a bi-national project (France-Venezuela) CNRS-FONACIT (M. Rukoz)

2. ANR

- a) ANR COCORICO 2014-2018
- b) ANR GUEPARD 2009-2013
- c) ANR AMANDE 2013-2017
- d) ANR CAIR 2015-2017
- e) ANR TODO 2009-2013
- f) ANR COCA 2009-2013
- g) ANR LOGIMA 2012-2017
- h) ANR NETLEARN 2013-2017
- i) ANR EXPLO-RA 2008-2012

3. Programme d'investissements d'avenir (PIA)

- a) Remzi Sanver is the coordinator of a PSL project called MIFID (2017-2019)
- b) Vangelis Paschos is the coordinator of a PSL project called Multifac (2017-2018)
- c) Alexis Tsoukiàs has participated, or participates, to several projects called CIPP (jan. 2013-jan. 2014), DIPP (PEPS CNRS/PSL), INDOPP (may 2015-oct. 2018) and MAPP (oct. 2015 - jan. 2018)

4. PEPS

- a) PEPS JCJC 2016: EQUiPER
- b) PEPS JCJC 2016: APPEAR
- c) PEPS JCJC 2017: ADDICTED

5. PGM O

- a) Jérôme Monnot has a PGM O Project (2016-2017).
- b) Ridha Mahjoub has a PGM O Project (2014-2017).
- c) Fabio Furini has a PGM O Project (2014-2018).

6. Hubert Curien Partnerships (PHC)

- a) PHC Procope 2016-17 Wuppertal (C. Bazgan & D. Vanderpooten)
- b) PHC Cedre 2014-15 with the Lebanese American University (C. Bazgan)
- c) PHC 2015 Proteus (E-J Kim)
- d) PHC Sakura: GRAPA 2017-2018 (F. Sikora & M. Lampis & E-J Kim)
- e) PHC Utique (D. Grigori) (2015-2017)
- f) PHC BOSPHORE (Turkey - France) (2012-2013) (J. Monnot & B. Ries)
- g) PHC with the university of LUISS, Italy 2016 (M. Nunez)

2.8 Indices of recognition and distinctions

2.8.1 Prizes and distinctions

- 1. In 2017, Jérôme Lang and Eun-Jung Kim received from the CNRS a silver medal and a bronze medal, respectively.
- 2. Bernard Roy received the EURO distinguished service medal in July 2015.
- 3. Cristina Bazgan has been a junior member of Institut Universitaire de France 2011-2016, and Vangelis Paschos has been a senior member of Institut Universitaire de France from 2010 to 2015.
- 4. Stéphane Airiau had a best paper award at AAMAS 2016 for his article entitled *Rationalisation of Profiles of Abstract Argumentation Frameworks*, joint work with Elise Bonzon, Ulle Endriss, Nicolas Maudet, and Julien Rossit.

2.8.2 Responsibilities in learned societies

Meltem Öztürk is part of the ROADEF council. Lucie Galand belongs to the committees (direction and scientific) of the GdR RO. Since 2016, Rida Laraki is responsible of the SMAI Mode.

2.8.3 Invitations to conferences abroad & international research visits

Invited talks

1. Elsa Negre has been invited tutorial speaker at 2 international conferences: HICSS 2014 and KMIKS 2015
2. Alexis Tsoukiàs made invited tutorials at RECSYS 2013 (Hong Kong), EEEE 2013 (Greece), EURO WG DSS 2013 (Greece), ICCSA 2014 (Portugal), AIRO 2014 (Italy), BCSI 2015 (Singapour)
3. Vangelis Paschos was plenary speaker at the Athens Colloquim on Algorithms and Complexity ACAC (2012, 2014, 2016) and the International Symposium and National Conference on Operational Research of the Hellenic Operational Research Society, 2014
4. Benjamin Negrevergne was invited to give a talk at the "Spring meeting on Mining and Learning (SMiLee 2017)" 29-31 May 2017 in Oostende, Belgium
5. Daniela Grigori participated to the panels "Research opportunities in Service Oriented Computing" and "Internet of Things Services" at ICSOC 2015
6. Michail Lampis was invited to give a talk at ACAC 2016 (Greece) and at a workshop organized by the Simons Insitute at Berkeley in november 2015
7. Fabio Furini has been invited at the university of Vienna for giving seminars for the doctoral school
8. Laurent Gourvès has been invited at the Politecnico di Milano in march 2014 for giving lectures, and invited speaker at the Summer School on Game Theory and Algorithms, Campione d'Italia, 7-11 September 2015
9. Ridha Mahjoub was plenary speaker at ORPA'2015, Algiers, Algeria, April 2015, Operations Research Workshop, Tizi Ouzou, Algeria, October 2013 ; Optimization Days, Oran, Algeria, November 2012.
10. Tristan Cazenave was invited at Cape Town for a conference IEEE SSCI (2015)

11. Jérôme Lang gave the following invited talks:
 - a) 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, Lexington, USA, September 2015)
 - b) Logic for Social Behaviour 3 (Zürich, February 2016)
 - c) 8th International Conference on Agents and Artificial Intelligence (ICAART 2016, Rome, February 2016)
 - d) 15th International Conference on Principles of Knowledge Representation and Reasoning (KR 2016, Cape Town, April 2016)
 - e) Fourth International Workshop on Market Design Technologies for Sustainable Development (Yokohama, August 2016)
 - f) Workshop DA2PL'2016, From Multiple Criteria Decision Aid to Preference Learning (Paderborn, November 2016)
 - g) Eighth Workshop on "Hybrid Reasoning for Intelligent Systems" (Dresden, November 2016).
12. Remzi Sanver was invited speaker at the annual congress of the Balkanian society of neurosurgery
13. Gabriella Pigozzi has been invited to give the following talks:
 - a) "Changing norms" at the workshop Logic In Bochum III, Ruhr University Bochum, Germany, May 2017.
 - b) Tutorial "The logic of group decision : An introduction to judgment aggregation" at the Conference PhDs in Logic IX, Ruhr University Bochum, Germany, May 2017.
 - c) "Changing norms" at the 13th International Conference on Deontic Logic and Normative Systems (DEON), Bayreuth, Germany, July 2016.
 - d) "Compatible Group Decisions" at the International Symposium on Aggregation and Structures (ISAS), Luxembourg, July 2016.
 - e) "A framework for revising and contracting rules" at the von Wright Centenary Sym-posium, Helsinki, May 2016.
 - f) "A framework for norm change", keynote speaker at Trends in Logic XV : Logics for Social Behaviour, Delft University of Technology, the Netherlands, June 2015.

- g) “A tutorial on Judgment Aggregation” (with D. Grossi), Logics for Social Behaviour workshop, Lorentz Center, November 2014.
 - h) “Group Argumentation”, Graphs and Decisions, University of Luxembourg, 27-29 October 2014.
 - i) “Logic in Group Decisions”, Trends in Logic XIV : The Road Less Travelled Off-stream applications of formal methods, Ghent University, Belgium, July 8-11, 2014.
 - j) “Pareto Optimality and Strategy Proofness in Group Argument Evaluation” (with E. Awad, M. Caminada, M. Podlaskowski, and I. Rahwan), COST Action IC1205 Workshop on Computational Social Choice, Barcelona, Spain, 16-18 October 2013.
 - k) “Compatible group decisions”, Seventh International Summer School on Aggregation Operators (AGOP 2013), Pamplona, Spain, 16-20 July 2013.
 - l) “Independence revisited”, DIMACS Workshop on Algorithmic Aspects of Information Fusion (WAIF), Rutgers University, US, November 2012.
 - m) “Compatible group decisions”, 2012 European Mathematical Psychology Group Meeting (EMPG 2012), University of Navarra, Pamplona, Spain, 29-31 August 2012.
 - n) “Legitimate judgment aggregation” (joint work with M. Caminada and U. Grandi), Workshop Judgment Aggregation: Computational Perspectives, University of Luxembourg, Luxembourg, 1 February 2012.
14. Rida Laraki has been invited to give the following lectures and talks:
- a) 2017 School on Equilibria in Games: Existence, Selection and Dynamics Course on Discontinuous Games, Santiago, Chile
 - b) 2015 METIS’2016: the 8th International Spring School on Distributed Systems, Course on Majority Judgment, Marrakech, Morocco
 - c) 2015 The 39th Conference on the Mathematics of Operations Research Course on Majority Judgment, Lunteren, Holland
 - d) 2015 Summer School in Discrete Mathematics Course on Majority Judgment, Valparaiso, Chile
 - e) 2013 The 8th Summer School in Signal and Image Processing Course on Mathematical Foundations of Game Theory Peyresq, France
 - f) 2012 School and Workshop on Game Theory and Applications Course on Majority Judgment, Valparaiso, Chile

15. Marta Rukoz has been invited to give 12 hours of lectures on Big data and no-Sql data bases at the Central University of Venezuela (2015)
16. Stefano Moretti has been invited for the following presentations :
 - a) On social rankings and their properties, Invited speaker, Advances in Decision Making Workshop, Paris, 3-4 February 2016.
 - b) Cooperative game theory for conflict resolution: how to address the issues of stability, fairness and democracy, Invited speaker, Peace Studies Workshop, Paris, 19-20 November 2015.
 - c) On some applications of Coalitional games, Plan Apoyo Doctorado, Invited speaker, PhD course at the Instituto de Matematicas Universidad de Sevilla Antonio de C. Brzezicki, Spain, 23-24 November 2015.
 - d) An introduction to cooperative games and to connection situations; Introduction to strategic games, Invited speaker, Summer School on Game Theory and Algorithms, Campione d'Italia, Italy, 7-11 September 2015.
 - e) Ranking players in an ordinal coalitional framework, Invited speaker, French Symposium on Games, Université Paris Diderot, 26 - 30 May 2015.
 - f) Coalitional games for energy saving in telecommunication networks, Invited speaker, Summer School on Game Theory and Health Management, Campione d'Italia, Italy, 7-12 September 2014.
 - g) On some applications of Coalitional games, Game theoretical models for engineering, Invited speaker, PhD course at Politecnico di Milano, 24-26 Mars 2014.
 - h) Coalitional games applied to large biological data sets, Invited speaker, Workshop on Modeling and Analysis of Biological Networks, an associate workshop of the International Environmental Omics Synthesis Conference (iEOS 2013), Cardiff, UK, 11 September 2013.
 - i) Coalitional games on networks and Coalitional games applied to computational biology, Invited speaker during the Summer School on Game Theory and Health Management, Campione d'Italia, Italy, 1-6 September 2013
 - j) On the problem of coordinating self-interested agents placed on a network to realize a socially optimal system, Workshop Game Theory at the Universities of Milan III, Invited speaker, Politecnico di Milano, Dipartimento di Matematica, 23-24 May 2013.

- k) Ranking sets of objects using the Shapley value and other regular semi-values, Invited speaker, DIMACS Workshop on Algorithmic Aspects of Information Fusion (WAIF), DIMACS Center, Rutgers University, USA, 8-9 November 2012.
- 17. Jamal Atif gave a tutorial at IJCAI 2016 and another tutorial at ICPRAM 2017
- 18. Julien Lesca has been invited to present his work at the COST Action meeting in Glasgow (2015)

Visits

- 1. Hassene Aissi has been invited in April 2014 by Tom McCormick and Maurice Queyranne at the University of British Columbia (Canada).
- 2. Ridha Mahjoub has been invited at the following places
 - a) Sultan Qaboos University, Muscat, (Oman), February-April, 2017
 - b) Bilkent University, Ankara, Turkey (April-September 2016).
 - c) Universite des Sciences, de Technologie et de Medecine, Nouakchott, Mauritania (January 2016).
 - d) Universite Farhat Abbas, Setif, Algeria (October 2015).
 - e) Sultan Qaboos University, Muscat, (Oman), February-May, 2015.
 - f) Universidade Federal of Fluminense, Niteroi, Rio de Janeiro (Brasil), April 2014.
 - g) Sauder School of Business, University of British Columbia, Vancouver (Canada), April-may 2013.
- 3. Laurent Gourvès has been invited at the NTUA in June 2015
- 4. Remzi Sanver has made several stays abroad
- 5. Tristan Cazenave has been invited in Taiwan by several universities, and the University of Essex.
- 6. Jérôme Lang made the following research visits: University of Auckland, February 2012; Nanyang Technological University, January 2013, and several stays at Düsseldorf
- 7. Matias Nunez made the following research visits: Rochester, US February 2017 and UQAM, Montreal April 2016

8. Rida Laraki was invited professor (1 month) at Yale in 2016. He is also regularly invited at the university of Liverpool since 2016 (management school).
9. Marta Rukoz made in 2015 a 15 day visit at the Central University of Venezuela, and in 2012 and 2013 (for 1 month) at the University Simon Bolivar' (Venezuela).
10. Witold Litwin has made annual visits (1-2 months) at the George Mason University (GMU)
11. Julien Lesca has been invited in Budapest by Peter Biro in 2016 (2 weeks)

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