

List of publications of Stefano MORETTI

Peer reviewed international journals (Computer science)

- [1] Moretti, S., Norde, H. (2022) Some new results on generalized additive games. *Int J Game Theory*, 51, 87-118.
- [2] Baruah, V. J., Neog Bora, P., Sarmah, B., Mahanta, P., Sarmah, A., Moretti, S., Kumar R., Borkotokey, S. (2022) Game-theoretic link relevance indexing on genome-wide expression dataset identifies putative salient genes with potential etiological and diapaetics role in colorectal cancer. *Scientific reports*, 12(1), 1-18.
- [3] Moretti, S., Norde, H. (2021) A note on weighted multi-glove games. *Soc Choice Welf.* 57, 721-732.
- [4] Algaba, E., Moretti, S., Rémila, E., Solal, P. (2021) Lexicographic solutions for coalitional rankings. *Soc Choice Welf.* 57, 817-849.
- [5] Serramia, M., López-Sánchez, M., Moretti, S., Rodríguez-Aguilar, J.A. (2021) On the dominant set selection problem and its application to value alignment. *Auton Agent Multi-Agent Syst.* 35, 42.
- [6] Aleandri, M., Dall’Aglío, M., Fragnelli, V., Moretti, S. (2021) Minimal winning coalitions and orders of criticality. *Ann Oper Res.* <https://doi.org/10.1007/s10479-021-04199-6>
- [7] Moretti, S., Trabelsi, R. (2021). A Double-Weighted Bankruptcy Method to Allocate CO2 Emissions Permits. *Games*, 12(4), 78.
- [8] Babaei, F., Navidi, H., Moretti, S. (2021) A bankruptcy approach to solve the fixed cost allocation problem in transport systems. *TOP.* <https://doi.org/10.1007/s11750-021-00618-w>
- [9] Sun, M.W., Moretti, S., Paskov, K.M., Stockham, N.T., Varma, M., Chrisman, B.S., Washington, P.Y., Jung, J.Y. and Wall, D.P. (2020) Game theoretic centrality: a novel approach to prioritize disease candidate genes by combining biological networks with the Shapley value. *BMC bioinformatics*, 21(1), pp.1-10.
- [10] Fossati, F., Moretti, S., Perny, P., Secci, S. (2020) Multi-resource allocation for network slicing. *IEEE/ACM Transactions on Networking*, 28(6) : 1311 - 1324.
- [11] Bernardi G., Lucchetti R., Moretti S. (2019) Ranking objects from a preference relation over their subsets. *Social Choice and Welfare*, 52(4) : 589-606.
- [12] M. Dall’Aglío, V. Fragnelli, S. Moretti (2019) Indices of criticality in simple games. *International Game Theory Review*, 21(1) : 1-21.
- [13] Fossati, F., Medhi, D., Secci, S. and Moretti, S. (2019) Error Estimate and Fairness in Resource Allocation with Inaccurate Information Sharing. *IEEE Networking Letters*, 1,(4) : 173-177.
- [14] F. Fossati, S. Hoteit, S. Moretti and S. Secci (2018) Fair Resource Allocation in Systems With Complete Information Sharing. *IEEE/ACM Transactions on Networking*, 26(6) : 2801-2814.
- [15] G. Cesari, E. Algaba, S. Moretti, J.A. Nepomuceno JA (2018) An application of the Shapley value to the analysis of co-expression networks. *Applied Network Science*, 3(1) :35.
- [16] G. Cesari, R. Lucchetti, S. Moretti (2017) Generalized Additive Games. *International Journal of Game Theory*, 46(4), 919-939.

- [17] M. Dall’Aglia, V. Fragnelli, S. Moretti (2016) Orders of criticality in voting games. *Operations Research and Decisions*, 26(2).
- [18] S. Moretti, F. Patrone, A. Dinar, S. Abdel-Dayem (2016) Sharing the Costs of Complex Water Projects: Application to the West Delta Water Conservation and Irrigation Rehabilitation Project, Egypt. *Games*, 7(3), 18.
- [19] R. Lucchetti, S. Moretti, F. Patrone (2015) Ranking sets of interacting objects via semivalues. *Top*, 23(2) : 567-590.
- [20] T.P. Michalak, T. Rahwan, S. Moretti, R. Narayanam, O. Skibski, P. Szczepanski, M. Wooldridge (2015) A New Approach to Measure Social Capital using Game-Theoretic Techniques. *SIGecom Exchanges*, 14(1) : 95-100.
- [21] S. Moretti (2015) An axiomatic approach to social ranking under coalitional power relations. *Homo Oeconomicus*, 32(2) : 183-208.
- [22] L. Gourvès, J. Monnot, S. Moretti, and N. Thang. (2014) Congestion Games with Capacitated Resources. *Theory of Computing Systems*, 1-19. DOI=10.1007/s00224-014-9541-0.
- [23] S. Moretti (2014) On the role of coalitional network games in modelling the social dimension in ecosystem management. *Strategic Behavior and the Environment*, 4(2) : 155-186.
- [24] S. Moretti, F. Patrone (2014) ICT-based Strategies for Environmental Conflicts. *Strategic Behavior and the Environment* 4(2) : 89-98.
- [25] S. Moretti (2013) On some open problems arising from the application of coalitional games in medicine. *International Game Theory Review*, 15(3) :1340020-1–1340020-18.
- [26] S. Moretti, S. Zeynep Alparslan Gök, R. Branzei, and S. Tijs (2011) Connection situations under uncertainty and cost monotonic solutions. *Computers & Operations Research*, 38(11) :1638–1645.
- [27] S. Moretti, V. Fragnelli, F. Patrone, and S. Bonassi (2010) Using coalitional games on biological networks to measure centrality and power of genes. *Bioinformatics*, 26(21) :2721.
- [28] S. Moretti and A. Vasilakos (2010) An overview of recent applications of game theory to bioinformatics. *Information Sciences*, 180(22) :4312–4322.
- [29] R. Lucchetti, S. Moretti, F. Patrone, and P. Radrizzani (2010) The shapley and banzhaf values in microarray games, *Computers & Operations Research*, 37(8) :1406–1412.
- [30] S. Moretti (2010) Statistical analysis of the Shapley value for microarray games, *Computers & Operations Research*, 37(8) :1413–1418.
- [31] S. Moretti (2009) Game theory applied to gene expression analysis, *4OR : A Quarterly Journal of Operations Research*, 7(2) :195–198.
- [32] S. Moretti, S. Tijs, R. Branzei, and H. Norde. (2009) Cost allocation protocols for supply contract design in network situations, *Mathematical Methods of Operations Research*, 69(1) :181–202.
- [33] V. Fragnelli and S. Moretti (2008) A game theoretical approach to the classification problem in gene expression data analysis, *Computers & Mathematics with Applications*, 55(5) :950–959.

- [34] S. Moretti and F. Patrone (2008) Transversality of the shapley value, *Top*, 16(1) :1–41.
- [35] S. Moretti, D. Van Leeuwen, H. Gmuender, S. Bonassi, J. Van Delft, J. Kleinjans, F. Patrone, and D. Merlo (2008) Combining shapley value and statistics to the analysis of gene expression data in children exposed to air pollution, *BMC bioinformatics*, 9(1) :361.
- [36] L. Sacconi and S. Moretti (2008) A fuzzy logic and default reasoning model of social norms and equilibrium selection in games under unforeseen contingencies, *International Journal of Uncertainty, Fuzziness and Knowledge Based Systems*, 16(1) :59.
- [37] S. Moretti, F. Patrone, S. Bonassi (2007) The class of microarray games and the relevance index for genes, *Top*, 15(), pages 256-280.
- [38] 33. S. Tijs, R. Branzei, S. Moretti, H. Norde (2006) Obligation rules for minimum cost spanning tree situations and their monotonicity properties, *European Journal of Operational Research*, 175 : 121–134.
- [39] R. Branzei, S. Moretti, H. Norde, S. Tijs (2004) The P-value for cost sharing in minimum cost spanning tree situations, *Theory and Decision*, 56 : 47-61.
- [40] H. Norde, S. Moretti, S. Tijs (2004) Minimum cost spanning tree games and population monotonic allocation schemes, *European Journal of Operational Research*, 154(1) : 84-97.
- [41] S. Moretti, F. Patrone (2004) Cost Allocation Games with Information Costs, *Mathematical Methods of Operations Research*, 59(3) : 419 - 434.
- [42] S. Moretti, H. Norde, K.H. Pham Do, S. Tijs (2002) Connection problems in mountains and monotonic allocation schemes, *Top*, 10(1) : 83–99.
- [43] P. Forcheri, M.T. Molfino, S. Moretti, A. Quarati (2003) Designing ICT-based training systems for the water industry, *Innovations in Education and Training International*, 40(3) : 291–302.
- [44] S. Moretti (2001) Many strange faecal pellets crowd the Antarctic Sea water. A biomathematical approach to explain the mystery, *International Journal of Mathematical Education in Science and Technology*, 32(5) : 661–675.

International Conference Proceedings (Peer-reviewed)

- [45] R. Lucchetti, S. Moretti, T. Rea (2022) Coalition Formation Games and Social Ranking Solutions. In Proc. of the 21st International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2022), Online, May 9–13, 2022, IFAAMAS, 9 pages.
- [46] J.P. Doignon, S. Moretti, M. Öztürk (2022) On the Ordinal Invariance of Power Indices on Coalitional Games. In Proceedings of the Thirty-First International Joint Conference on Artificial Intelligence (IJCAI-22).
- [47] T. Allouche, B. Escoffier, S. Moretti, M. Öztürk (2020) Social Ranking Manipulability for the CP-Majority, Banzhaf and Lexicographic Excellence Solutions. In : Proceedings of the 29th International Joint Conference on Artificial Intelligence and the 17th Pacific Rim International Conference on Artificial Intelligence (IJCAI-PRICAI 2020).
- [48] Fossati, F., Moretti, S., Rovedakis, S., Secci, S. (2020) Decentralization of 5G slice resource allocation. In IEEE/IFIP Network Operations and Management Symposium (NOMS).

- [49] Belotti, M., Moretti, S., Potop-Butucaru, M., Secci, S. (2020) Game theoretical analysis of Atomic Cross-Chain Swaps. Accepted in : 40th IEEE International Conference on Distributed Computing Systems (ICDCS2020) July 8 - 10, 2020, Singapore.
- [50] Belotti, M., Moretti, S., Zappalà, P. (2020) Rewarding miners: bankruptcy situations and pooling strategies.(accepted in the proceedings of 17th European Conference on Multi-Agent Systems (EUMAS2020), July 13 - 14, 2020, Thessaloniki, Greece.)
- [51] H. Khani, S. Moretti, M. Öztürk (2019) An Ordinal Banzhaf Index for Social Ranking. In : Proceedings of the Twenty-Eighth International Joint Conference on Artificial Intelligence (IJCAI-19), pp. 378-384.
- [52] R. Trabelsi, S. Moretti, S. Krichen (2019) Using Bankruptcy Rules to Allocate CO2 Emission Permits. In : Avrachenkov K., Huang L., Marden J., Coupechoux M., Giovanidis A. (eds) Game Theory for Networks. GameNets 2019. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, vol 277. Springer, Cham.
- [53] F. Fossati, S. Moretti, S. Secci (2019) Multi-Resource Allocation for Network Slicing under Service Level Agreements. In : 10th International Conference on Networks of the Future (NoF), pages 48-53, IEEE, Rome, Italy.
- [54] A. Haret, H. Khani, S. Moretti, M. Öztürk (2018) *Ceteris Paribus* Majority for social ranking. In : Proceedings of the Twenty-Seventh International Joint Conference on Artificial Intelligence (IJCAI-18), pp. 303-309.
- [55] S. Moretti (2018) On Cooperative Connection Situations Where the Players Are Located at the Edges. In : Belardinelli F., Argente E. (eds) Multi-Agent Systems and Agreement Technologies. EUMAS 2017, AT 2017. Lecture Notes in Computer Science, vol 10767. Springer, Cham
- [56] G. Cesari, F. Fossati, S. Moretti (2018) A conflict index for arguments in an argumentation graph. In : Oswald, S. Maillat, D. (Eds.) *Argumentation and Inference: Proceedings of the 2nd European Conference on Argumentation, Fribourg 2017*. London : College Publications. Vol.II, 115-132, Logic and Argumentation, Studies in Logic series, n.77.
- [57] G. Cesari, E. Algaba, S. Moretti, J.A.. Nepomuceno (2018) A game theoretic neighbourhood-based relevance index. In : Cherifi C., Cherifi H., Karsai M., Musolesi M. (eds) Complex Networks & Their Applications VI. COMPLEX NETWORKS 2017. Studies in Computational Intelligence, vol 689. Springer, Cham.
- [58] S. Moretti, M. Öztürk (2017) Some Axiomatic and Algorithmic Perspectives on the Social Ranking Problem. In : Proceedings of the fifth International Conference on Algorithmic Decision Theory (ADT 2017) Luxembourg, Lecture Notes in Artificial Intelligence, pp. 166-181, Springer.
- [59] F. Fossati, S. Moretti, S. Secci (2017) A Mood Value for Fair Resource Allocations. In : Proceedings of the 16th International IFIP TC6 Networking Conference, Networking 2017, Stockholm, June 12-15, 2017 (pp. 9). IFIP Open Digital Library.
- [60] S. Moretti, M. Öztürk (2016) Ordinal power relations and social rankings. In *The Sixth International Workshop on Computational Social Choice (COMSOC-2016)*
- [61] E. Bonzon, N. Maudet, S. Moretti (2014) Coalitional games for abstract argumentation. In *Proceedings International Conference on Computational Models of Argument (COMMA'14)*.
- [62] B. Escoffier, D. Ferraioli, L. Gourvès, and S. Moretti. (2013). Designing Budget-Balanced Best-Response Mechanisms for Network Coordination Games. In *Proceedings of the 6th International Symposium on Algorithmic Game Theory (SAGT 2013)*, Springer Berlin Heidelberg, 207–218.

- [63] X. Misseri, S. Moretti, and J.L. Rougier (2013) Auction-type framework for selling inter-domain paths. In *Advanced Internet Charging and QoS Technology (ICQT 2013)*, Associated Workshop of IEEE CNSM 2013, Zurich, Switzerland, pp. 8. pdf version available here
- [64] S. Moretti and A. Tsoukiàs (2012) Ranking sets of possibly interacting objects using shapley extensions. In G. Brewka, T. Eiter, and S. A. McIlraith, editors, *13th International Conference on Principles of Knowledge Representation and Reasoning (KR 2012)*. AAAI Press, 199–209.
- [65] B. Escoffier, L. Gourves, J. Monnot, and S. Moretti (2012) Cost allocation protocols for network formation on connection situations. In *Performance Evaluation Methodologies and Tools (VALUETOOLS), 2012 6th International Conference on*, pages 228–234. pdf version available here
- [66] A. Bianzino, C. Chaudet, S. Moretti, J. Rougier, L. Chiaraviglio, and E. Le Rouzic (2012) Enabling sleep mode in backbone ip-networks: a criticality-driven tradeoff. In *IEEE ICC'12 Workshop on Green Communications and Networking*. pdf version available here
- [67] A. Bianzino, C. Chaudet, D. Rossi, J. Rougier, and S. Moretti (2011) The green-game: striking a balance between qos and energy saving In *Proceedings of the 23rd International Teletraffic Congress*, pages 262–269. ITCP. pdf version available here
- [68] S. Moretti (2006) Minimum cost spanning tree games and gene expression data analysis, *ACM International Conference Proceeding Series*.
- [69] S. Tijs, S. Moretti, R. Branzei, H. Norde (2006) The Bird core for minimum cost spanning tree problems revisited: monotonicity and additivity aspects, Recent Advances in Optimization, *Lectures Notes in Economics and Mathematical Systems*, 563(), pages 305–322.
- [70] G. Dettori, P. Forcheri, M.T. Molino, S. Moretti, A. Quarati (2002) Shaping teacher preparation content according to emerging pedagogical paradigms, In *Proceedings International Conference on Computers in Education*, 1044–1050.
- [71] P. Forcheri, M.T. Molino, S. Moretti, A. Quarati (2001) Building reusable and adaptable web-based courses, *Lecture Notes in Artificial Intelligence series*, 2198, 562–567.

National journals and other conference proceedings

- [72] S. Moretti (2016) An application of the inverse power index problem to the design of the PSL electoral college. *Actes des 10eme Journées d'Intelligence Artificielle Fondamentale (IAF 2016)*
- [73] G. Lortal, S. Deparis, C. Laudy, S. Moretti, J. Mattioli (2013) Un bouquet de théories pour une plateforme de décision stratégique à base de réseaux sociaux *Proceedings Plateforme IA - IC2013* pp. 372-374.
- [74] S. Moretti and F. Patrone (2009) Il metodo assiomatico in teoria dei giochi. *Lettera Matematica Pristem*, (70-71) :33–44.
- [75] P. Forcheri, M.T. Molino, S. Moretti (2003) Supporting innovation in the water industry training via collaboration between universities, research institutions, industries: the MAQUA project, 2003 XXX IHAR conference, Thessaloniki, Greece, August 24-29 2003.

Books chapters

- [76] Belotti M., Moretti. S. (2021). Bankruptcy Solutions as Reward Functions in Mining Pools. *Principles of Blockchain Systems*, Chapter 7. Fernández Anta A, Georgiou C, Herlihy M, Potop-Butucaru M. (eds).

- [77] Dall’Aglia M., Fragnelli V., Moretti S. (2019) Orders of Criticality in Graph Connection Games. In : Nguyen N., Kowalczyk R., Mercik J., Motylska-Kuźma A. (eds) Transactions on Computational Collective Intelligence XXXIV. Lecture Notes in Computer Science, vol 11890. Springer, Berlin, Heidelberg
- [78] M. Dall’Aglia, V. Fragnelli, S. Moretti (2019) Sometimes the computation of the Shapley value is simple. In : Handbook of the Shapley value Eds. : Encarnación Algaba, Vito Fragnelli, Joaquín Sánchez-Soriano. CRC Press Taylor and Francis, forthcoming.
- [79] S. Moretti, M. Öztürk, and A. Tsoukiàs (2016) Preference modelling. *Multiple Criteria Decision Analysis : State of the Art Surveys*, S. Greco, M. Ehrgott J.R. Figueira eds., Second edition, Springer, pp. 43-95.
- [80] D. Ferraioli, L. Gourvès, S. Moretti, F. Pascual, O. Spanjaard (2014) Combinatorial Optimization with Competing Agents, 675-706. *Paradigms of Combinatorial Optimization*, 2nd Edition, John Wiley and Sons, Inc., editor(s)
- [81] L. Gourvès and S. Moretti (2012) *Combinatorial optimization problems arising from interactive congestion situations*, In R. Mahjoub, editor, *Progress in Combinatorial Optimization*, 223–233. Addison Wesley.
- [82] A. Dinar, S. Moretti, F. Patrone, S. Zara (2006) *Application of Stochastic Cooperative Games in Water Resources*, In : Frontiers in Water Resource Economics, *Natural Resource Management and Policy*, 29 : 1–20.
- [83] S. Moretti (2004) *A model for cooperative inter-municipal waste collection: cost evaluation toward fair cost allocation*, Game Practice and Environment, Edward Elgar Publishing. C.Carraro and V.Fragnelli, editor(s), 125–144.
- [84] S. Moretti, F. Patrone (2002) *Teoria dei Giochi e Indici di Potere*, (in Italian) “Matematica e innovazione curricolare nella scuola superiore - Ricerca e Formazione”, Istituto Regionale di Ricerca Educativa (IRRE), P. Gentilini, editor(s), 69–108.

Other papers in peer reviewed international journals on the statistical analysis of biological data

- [85] Neog Bora, P., Baruah, V.J., Borkotokey, S., Gogoi, L., Mahanta, P., Sarmah, A., Kumar, R. and Moretti, S. (2020) Identifying the Salient Genes in Microarray Data: A Novel Game Theoretic Model for the Co-Expression Network. *Diagnostics*, 10(8), p.586.
- [86] Stigliani, S., Moretti, S., Casciano, I., Canepa, P., Remorgida, V., Anserini, P., Scaruffi, P. (2018). Presence of aggregates of smooth endoplasmic reticulum in MII oocytes affects oocyte competence: molecular-based evidence. *Molecular Human Reproduction : Basic science of reproductive medicine*.
- [87] M. De Mariano, S. Stigliani, S. Moretti, F. Parodi, M. Croce, C. Bernardi, A. Pagano, G.P. Tonini, S. Ferrini, L. Longo (2017) A genome-wide microRNA profiling indicates miR-424-5p and miR-503-5p as regulators of ALK expression in neuroblastoma. *Oncotarget*, 8(34), 56518-56532. <http://doi.org/10.18632/oncotarget.17033>
- [88] S. Stigliani, S. Moretti, P. Anserini, I. Casciano, P.L. Venturini, P. Scaruffi (2015) Storage time does not modify the gene expression profile of cryopreserved human metaphase II oocytes. *Human Reproduction* 30(11) :2519-26.

- [89] F. Valdora, B. Banelli, S. Stigliani, S.M. Pfister, S. Moretti S, M. Kool, M. Remke, A.H. Bai, C. Brigati, T. Hielscher, M. Romani, T. Servidei, M. Zollo, G. Cinalli, A. Oberthuer, G.P. Tonini, S. Coco (2013) Epigenetic Silencing of DKK3 in Medulloblastoma, *International Journal of Molecular Sciences*, 14(4) :7492–7505.
- [90] S. Coco, J. Theissen, P. Scaruffi, S. Stigliani, S. Moretti, A. Oberthuer, F. Valdora, M. Fischer, F. Gallo, B. Hero, S. Bonassi, F. Berthold, and G. Tonini (2012) Age-dependent accumulation of genomic aberrations and deregulation of cell cycle and telomerase genes in metastatic neuroblastoma, *International Journal of Cancer*, 131(7) :1591–1600.
- [91] M. Cutolo, B. Villaggio, R. Brizzolara, P. Montagna, F. Gallo, S. Moretti, S. Bonassi, A. Sulli, and S. Soldano (2011) Identification and quantification of selected inflammatory genes modulated by leflunomide and prednisone treatment in early rheumatoid arthritis patients, *Clinical and experimental rheumatology*, 29(1) :72–79.
- [92] P. Scaruffi, F. Morandi, F. Gallo, S. Stigliani, S. Parodi, S. Moretti, S. Bonassi, P. Fardin, A. Garaventa, G. Zanazzo, V. Pistoia, G. Tonini, and M.V. Corrias (2011) Bone marrow of neuroblastoma patients shows downregulation of cxcl12 expression and presence of ifn signature, *Pediatric Blood & Cancer*, 59(1) :44–51.
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- [94] F. Morandi, P. Scaruffi, F. Gallo, S. Stigliani, S. Moretti, S. Bonassi, C. Gambini, K. Mazzocco, P. Fardin, R. Haupt, G. Arcamone, V. Pistoia, G. Tonini, and M.V. Corrias (2012) Bone marrow-infiltrating human neuroblastoma cells express high levels of calprotectin and hla-g proteins, *PloS one*, 7(1) :e29922.
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- [97] P. Scaruffi, S. Stigliani, S. Moretti, S. Coco, C. De Vecchi, F. Valdora, A. Garaventa, S. Bonassi, and G. Tonini (2009) Transcribed-ultra conserved region expression is associated with outcome in high-risk neuroblastoma, *BMC cancer*, 9(1) :441.
- [98] D. Albino, P. Scaruffi, S. Moretti, S. Coco, M. Truini, C. Di Cristofano, A. Cavazzana, S. Stigliani, S. Bonassi, G.P. Tonini (2008) Identification of low intratumoral gene expression heterogeneity in neuroblastic tumors by genome-wide expression analysis and game theory, *Cancer*, 113(6) :1412–1422.
- [99] P. Fardin, S. Moretti, B. Biasotti, A. Ricciardi, S. Bonassi, L. Varesio (2007) Normalization of low-density microarray using external spike-in controls: analysis of macrophage cell lines expression profile, *BMC Genomics* 8(17).
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- [101] S. Coco, Raffaella Deferrari, P. Scaruffi, Andrea Cavazzana, L. Longo, K. Mazzocco, Patrizia Perri, Gambini Claudio, S. Moretti, S. Bonassi, Gian P. Tonini (2005) Genome analysis and gene expression profiling of neuroblastoma (Schwannian stroma-poor) and ganglioneuroblastoma intermixed (Schwannian stroma-rich) cell subpopulations reveal a different degree of DN, *Journal of Pathology*, 207 : 346–357.

Dissertations

- [102] S. Moretti (2008) *Cost Allocation Problems Arising from Connection Situations in an Interactive Cooperative Setting*. PhD Thesis, CentER, Tilburg University. (ISBN 978 90 5668 218 7).
- [103] S. Moretti (2006) *Game Theory applied to gene expression analysis*, PhD Dissertation, University of Genoa, Italy.
- [104] S. Moretti (2006) *Game theory and practice: models, axioms and algorithms*, HDR (Habilitation à Diriger des Recherches) Dissertation, Paris Dauphine University, France.

Edited special issues

- [105] Special Issue on Game Theory and Practice, Dedicated to the 13th European Meeting on Game Theory (The SING13 Special Issue); Volume I - Cooperative Games and Voting; Guest Editors : Vito Fragnelli, Stefano Moretti and Tamás Solymosi) (2019) *International Game Theory Review*, Vol. 21No. 01.
- [106] Special Issue on Game Theory and Practice, Dedicated to the 13th European Meeting on Game Theory (The SING13 Special Issue); Volume II - Non-Cooperative Games and Equilibria; Guest Editors : Vito Fragnelli, Stefano Moretti and Tamás Solymosi) (2019) *International Game Theory Review*, Vol. 21No. 02.
- [107] S. Moretti, F. Patrone (eds.) Special Issue on ICT-based Strategies for Environmental Conflicts, *Strategic Behavior and the Environment*, Vol 4, Issue 2, 2014.

Communications to international conferences, workshops and schools

- [108] Coalition Formation Games and Social Ranking Solutions, 21st International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2022), Auckland, New Zealand (remote), 9-13 May 2022.
- [109] *Some new results on generalized additive games*, 16th European Meeting on Game Theory (SING16), Universidad de Granada (remote), Spain, 30 June - 2 July 2021
- [110] Minimal winning coalitions and orders of criticality, 22ème congrès annuel de la société Française de Recherche Opérationnelle et d'Aide à la Décision (ROADEF), Université de Haute-Alsace, Mulhouse (remote), 26 - 30 April 2021.
- [111] Stable coalition structures based on social rankings, 21ème congrès annuel de la société Française de Recherche Opérationnelle et d'Aide à la Décision (ROADEF), Université de Montpellier, 19 - 21 February 2020.
- [112] Ordinal indices for the social ranking problem, Invited speaker, Journées Plénières du GDR IA Aspects Formels et Algorithmiques de l'Intelligence Artificielle (IA), hôtel Dupanloup, Orléans, , May 28-29, 2019.
- [113] Ranking objects from a preference relation over their subsets, Invited speaker, workshop INDEPTH Institutional Design and Economic Preferences : Theory and experiments, GATE, Université Jean Monnet, Saint-Etienne, March 28-29, 2019.
- [114] Some new results on generalized additive games, PGM days (Gaspard Monge Program for Optimisation), EDF-Lab in Saclay, Paris, 20-21 November 2018.
- [115] *The Shapley value and Rationing*, Invited speaker, Summer School on Game theory and Rationing, Campione d'Italia, Italy, 2-7 September 2018.

- [116] *Some new results on generalized additive games*, 14th European Meeting on Game Theory (SING14), Bayrouth, Germany, 16-18 July 2018
- [117] *On cooperative connection situations where the players are located at the edges* - The 15th European Conference on Multi-Agent Systems (EUMAS 2017), Evry, France, December 14-15, 2017.
- [118] *A game theoretic neighbourhood-based relevance index*, Complex Networks - The 6th International Conference on Complex Networks and Their Applications, Lyon, France, November 29 - December 01 2017.
- [119] *On some generalization of the notion of power index: ordinality and criticality in voting games*, Invited speaker, Summer School on Game theory and Voting Systems, Campione d'Italia, Italy, 3-8 September 2017.
- [120] *On cooperative connection situations where the players are located at the edges*, 12th European Meeting on Game Theory (SING12), Odense, Danemark, 11-13 July 2016
- [121] *On social rankings and their properties*, Sixth International Workshop on Computational Social Choice Toulouse, 22-24 June 2016
- [122] *On social rankings and their properties*, 17^e conférence ROADEF de la société Française de Recherche Opérationnelle et Aide à la Décision, Compiègne, France, 10-12 February 2016. (talk based on a joint work with M. Öztürk)
- [123] *On social rankings and their properties*, Invited speaker, Advances in Decision Making Workshop, Politecnico of Milano, Italy, 3-4 February 2016.
- [124] *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.
- [125] *On some applications of Coalitional games*, Plan Apoyo Doctorado, Invited speaker, PhD course at the Instituto de Matemáticas Universidad de Sevilla Antonio de C. Brzezicki, Spain, 23-24 November 2015.
- [126] *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.
- [127] *Generalized additive games*, 11th European Meeting on Game Theory (SING11-GTM2015) (SING11-GTM2015), St. Petersburg, Russia, 8-10 July 2015
- [128] *Ranking players in an ordinal coalitional framework*, Invited speaker, French Symposium on Games, Université Paris Diderot, 26 - 30 May 2015.
- [129] *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.
- [130] *Coalitional games for abstract argumentation*, 10th Spain-Italy-Netherlands Meeting on Game Theory (SING10), Kraków, Poland, 7-9 July 2014
- [131] *On some applications of Coalitional games*, Invited speaker, Game theoretical models for engineering, PhD course at Politecnico di Milano, 24-26 Mars 2014.
- [132] *An axiomatic approach to social ranking under coalitional power relations*, 3rd International Conference on Algorithmic Decision Theory (ADT 2013), Bruxelles, Belgium, 13-15 November 2013.

- [133] *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.
- [134] *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.
- [135] *Ordinal power indices for ordinal coalitional games*, 9th Spain-Italy- Netherlands Meeting on Game Theory (SING9), Vigo, Spain, 8-10 July 2013
- [136] *On the problem of coordinating self-interested agents placed on a network to realize a socially optimal system*, Invited speaker, Workshop Game Theory @ the Universities of Milan III, Politecnico di Milano, Dipartimento di Matematica, 23-24 May 2013.
- [137] *Extending preferences with probabilistic values for games*, accepted for presentation at the 14^e conférence ROADEF de la société Française de Recherche Opérationnelle et Aide à la Décision, Troyes, France, 13-15 Février 2013. (talk based on a joint work with R. Lucchetti and F. Patrone)
- [138] *Ranking sets of objects using the Shapley value and other regular semivalues*, Invited speaker, DIMACS Workshop on Algorithmic Aspects of Information Fusion (WAIF), DIMACS Center, Rutgers University, USA, 8-9 November 2012.
- [139] *Cost allocation protocols for energy saving on non-cooperative connection situations*, 8th Spain-Italy-Netherlands Meeting on Game Theory (SING8), Budapest, Hungary, 16-18 July 2012, (talk based on a joint work with B. Escoffier, L. Gourves, J. Monnot)
- [140] *Ranking Sets of Possibly Interacting Objects Using Shapley Extensions*, 13th International Conference on Principles of Knowledge Representation and Reasoning (KR 2012), Rome, Italy, 10-14 Juin 2012 (talk based on a joint work with A. Tsoukiàs)
- [141] *Power set extensions of ordinal preferences using marginal contributions*, Workshop Game Theory @ the Universities of Milan II, Politecnico di Milano, Dipartimento di Matematica, 12-13 May 2011.
- [142] *Ranking sets of objects using extension rules based on coalitional games*, 7th Spain-Italy-Netherlands Meeting on Game Theory (SING7), Paris, France, 18 - 20 July 2011 (talk based on a joint work with A. Tsoukiàs)
- [143] *Coalitional games on biological networks to measure the power of genes*, EURO XXIV 24th European Conference on Operational Research, Lisbon, Portugal, 11 - 14 July 2010. (talk based on a joint work with S. Bonassi, V. Fragnelli, F. Patrone).
- [144] *An Application Of Microarray Games To Gene Expression Analysis*, Sixth International Meeting On Computational Intelligence Methods For Bioinformatics And Biostatistics, Genoa, Italy, 15-17 October 2009.
- [145] *Co-expression network games*, Sixth Annual Meeting of the Bioinformatics Italian Society, Genoa, Italy, 18 - 20 March 2009 (poster section).
- [146] *Combining Shapley value and statistics to the analysis of gene expression data in children exposed to air pollution*, XXXIX Annual Conference of the Italian Association of Operations Research, Ischia, Italy, 7 - 11 September 2008.

- [147] *Game theory applied to tumor microarray data for gene selection*, XXXVIII Annual Conference of the Italian Association of Operations Research, Genoa, Italy, 2007;
- [148] *Cost monotonic Construct and Charge rules for connection situations*, XXXVIII Annual Conference of the Italian Association of Operations Research, Genoa, Italy, 2007.
- [149] *Minimum cost spanning tree situations and gene expression data analysis*, GameNets'06, Pisa, Italy, 2006.
- [150] *Some experiences on the analysis of gene expression data using Game Theory*, XXXVII Annual Conference of the Italian Association of Operations Research, Cesena, Italy, 2006.
- [151] *Game theory applied to gene expression analysis*, SING2 Second Spain Italy Netherlands meeting on Game Theory, Foggia, Italy, 2006.
- [152] *Statistical analysis of the Shapley value for microarray games*, XXXVI Annual Conference of the Italian Association of Operations Research, Camerino (MC), Italy, 2005.
- [153] *An application of Game Theory in microarray data analysis*, Understanding the genome : microarray applications from the biology to the clinic II edition, Genoa, Italy (poster communication), 2005.
- [154] *Application of the Shapley value to microarray data analysis*, XXXV Annual Conference of the Italian Association of Operations Research, Lecce, Italy, 2004.
- [155] *A model for cooperative inter-municipal waste collection : cost evaluation toward fair cost allocation*, XXXIV Annual Conference of the Italian Association of Operations Research (invited session), Venezia, Italy, 2003.
- [156] *Application of Stochastic Cooperative Games in Water Resources*, XV Italian Meeting on Game Theory and Applications (XV IMGTA), Urbino, Italy, 2003.
- [157] *A model for cooperative inter-municipal waste collection : cost evaluation toward fair cost allocation*, XXXIII Annual Conference of the Italian Association of Operations Research (AIRO XXXIII), L'Aquila, Italy, 2002.
- [158] *Fuzzy Norms, Default Reasoning and Equilibrium Selection in Games under Unforeseen Contingencies and Incomplete Knowledge*, Fifth Conference on Logic and the Foundations of Game and Decision Theory (LOFT 5), Turin, Italy, 2002.
- [159] *Connection problem on mountains and monotonic allocation schemes*, Game Practice and the Environment, Alessandria, Italy, 2002.
- [160] *A model for cooperative inter-municipal waste collection : cost evaluation toward fair cost allocation*, VI Congress of the Italian Society of Applied and Industrial Mathematics (SIMAI VI), Cagliari, Italy, 2002.
- [161] *Connection problem on mountains and monotonic allocation schemes*, XXXII Annual Conference of the Italian Association of Operations Research (AIRO XXXII), Cagliari, Italy, 2001.

Seminars and other communications

- [162] Social rankings and coalition formation, Conferences Journey on allocations, social rankings and claims Spanish Operations Research Society, University of Seville, 15 June 2022 (remote)

- [163] Coalition formation games and social ranking solutions, Séminaire MDOD (Mathématiques Discrètes, Optimisation et Décision), Université Paris 1, Pantheon Sorbonne, 8 March 2022.
- [164] Social ranking solutions for coalitional situations, Séminaire d’Economie Théorique, Centre d’Économie de la Sorbonne et à Paris School of Economics, 12 February 2021.
- [165] Ordinal measures of influence in social structures, Kempten Autumn Talks, Kempten University of Applied Sciences, 20 November 2020.
- [166] On the characterization of generalized additive games, Luiss Research Seminars, Campus on Luiss Rome (Virtual), 15 October 2020.
- [167] Some interesting families of Generalized Additive Games and their characterizations, Economic Theory Seminars, Centre d’Economie de la Sorbonne, 13 March 2020.
- [168] Ranking objects from a preference relation over their subsets, Séminaires du Pôle 1 : “Aide à la décision”, 27 November 2018.
- [169] *(Weighted) Ceteris Paribus Majority for Social Ranking*, Journée Théorie Algorithmique de la décision et des jeux, Groupe de travail du GDR RO et pré GDR IA, LIP6 - UPMC, 19 November 2018.
- [170] *Ordinal power indices*, Doctoral school of social science Trento University, Trento, Italy, 3 May 2018.
- [171] *First thoughts on coalitions in abstract argumentation*, 9th Meeting Co-located with the Workshop on Decision Making, Université Toulouse 1 Capitole, Toulouse, France, 25 April 2017.
- [172] *On cooperative connection situations where the players are located at the edges.*, Centre d’Economie de la Sorbonne, Economic Theory Seminar, 27 January 2017.
- [173] “*On cooperative connection situations where the players are located at the edges*”, Journée Théorie Algorithmique de la décision et des jeux, Paris Dauphine University, 28 Novembre 2016.
- [174] *Coalitional games for abstract argumentation*, Séminaire Aide à la Décision et Modélisation des Préférences, 25 novembre 2014.
- [175] *Coalitional games for abstract argumentation*, Distributed algorithms and graphs Seminar, Laboratoire d’Informatique Algorithmique : Fondements et Applications, Université Paris Diderot, 8 Avril 2014.
- [176] *Ordinal coalitional situations, preference extensions and social rankings*, Séminaire Parisien de Théorie des Jeux, Centre Emile Borel de l’Institut Henri Poincaré, 10 February 2014.
- [177] *On some applications of coalitional games and power indices to the analysis of large biological datasets*, Annual Meeting of the Groupe de Travail Jeux du GDR Informatique et Mathématiques, Laboratoire d’Informatique Algorithmique : Fondements et Applications (LIAFA) de PARIS 7 (Université Paris Diderot), 23-24 January 2014.
- [178] *Applications des jeux de coalitions à des réseaux réel*, Journée du Lamsade, IHP Institut Henri Poincaré, Paris, 4-5 April 2013.
- [179] *Coalitional games applied to bioinformatics*, Seminaire d’Informatique Ibisc, Université d’Evry Val d’Essonne, 28 June 2012.

- [180] *Ranking sets of objects using orderings "aligned" with regular semivalues*, Luiss Guido Carli University, Dipartimento di Economia e Finanza, 25 May 2012.
- [181] *Ranking Sets of Possibly Interacting Objects Using Shapley Extensions*, atelier COMSOC, Ecole Polytechnique, Palaiseau, 26 January 2012.
- [182] *Ranking sets of objects using coalitional games*, Seminars of Game Theory, Department of Mathematics, University of Genoa, Italy, 13th April 2011.
- [183] *Coalitional network games in telecommunications*, Laboratoire des signaux et systemes, Supélec, Gif-sur-Yvette, France, 8th November 2010.
- [184] *Introduzione ad alcune recenti applicazioni della Teoria dei Giochi alla biologia computazionale*, Corso di aggiornamento la tecnologia dei microarray applicata allo studio degli "omics", Italian National Research Cancer Institute, Genoa, Italy, 27th September 2010.
- [185] *Coalitional games arising from interactive situations on networks*, Workshop on Game Practice and Preference aggregation at the Université Paris Dauphine, Paris, June 23rd 2010.
- [186] *Applications of coalitional games arising from interactive situations on networks*, Séminaire de Mathématiques Discrètes, Optimisation et Décision (MDOD) organized by the Centre d'Economie de la Sorbonne and Université Paris 1 - Panthéon Sorbonne, 7rd May 2010.
- [187] *A (not so short) introduction to my CNRS research program*, seminars of LAMSADE, Université Paris Dauphine, 5th May 2010.
- [188] *Power Indices and Game Theory (with Applications in Bioinformatics)*, invited speaker at the COST-ADT Doctoral School on Computational Social Choice organisé par l'European Science Foundation, COST Action on Algorithmic Decision Theory, Estoril, Lisbon, Portugal, 12th April 2010.
- [189] *"Teoria dei giochi e stima del potere dei geni: il fascino dell'approccio assiomatico tra bio-tecnologie avanzate e calcolo ad alte prestazioni"*, Belgirate XII, Portovenere, Italy, 13 Février 2009 (conférencier invité)
- [190] *From social networks to gene co-expression networks*, "Seminario di Teoria dei Giochi, Ottimizzazione e Applicazioni", Dép. de Mathématique, Univ. de Gênes, Italie, 10 Février 2009.
- [191] *Integrative and sustainable cost allocation methods for connection situations*, "Seminario di Teoria dei Giochi, Ottimizzazione e Applicazioni", Dép. de Mathématique, Univ. de Gênes, Italie, 21 Février 2008.
- [192] *Analisi statistiche in studi di epidemiologia molecolare con tecniche postgenomiche*, "Dottorato di Ricerca in Epidemiologia Molecolare delle Malattie Cronico-Degenerative e Biostatistica", Université de Gênes, 20th April 2007.
- [193] *Game Theory applied to gene expression analysis*, Seminario Giovani, Department of Mathematics, Université de Gênes, Italie, 7th December 2006.
- [194] *La statistica dei microarray*, Basic course on microarrays, National Research Cancer Institute, Genova, Italy, 21st November 2006.
- [195] *Alternative models using game theory in gene expression analysis* Workshop on Game Theory and Engineering, Milano, Italy, 7th June 2006.

- [196] *Game Theory applied to gene expression analysis*, Ph.D dissertation defence, Department of Mathematics, University of Genoa, Italy, 25th May 2006.
- [197] *Game theory and gene expression microarray*, series of *seminars in epidemiology and advanced statistics*, seminar held at the National Cancer Research Institute of Genoa, Italy, 30th November 2005.
- [198] *Microarray Games*, seminar held at the Department of Mathematics, Catholic University, Brescia, Italy, 19th May 2005.
- [199] *Microarray games and the relevance index for genes*, seminar held at the Departamento de Statistics, Mathematics and Computer Science, Universidad Miguel Hernández de Elche, Spain, 21st April 2005.
- [200] *Microarray games and the relevance index for genes*, seminar held at the Department of Mathematics, University of Genoa, Italy, 26th November 2004.
- [201] *Microarray games and the relevance index for genes*, University of Pisa, Italy, 29th October 2004.
- [202] *Giochi tra geni*, Politecnico di Milano, Milano, Italy, 25th Novembre 2004.
- [203] *Cost-Benefit analysis for radioactive waste management at the hospital*, seminar held during the School in Environmental Communication and Management jointly organized by The *Fondazione Eni Enrico Mattei* (FEEM) and the University of Genoa, 16th June 2004.
- [204] *Minimum cost spanning tree situations and the P-value for cost sharing*, seminar held at the Department of Mathematics, University of Genoa, 3rd May 2004.
- [205] *Environmental applications of TU-games*, seminar held at the University of Como, Italy, 18th March 2004.
- [206] *An overview to some Game Theory applications in Operations Research, cost allocation and Biotechnology*, seminar held at the University of Insubria, Varese, Italy, 24th November 2003.
- [207] *Applications of Game Theory to environment and related support tools*, seminar held during the workshop Approximations and Applications in Game Theory, University of Genoa, 13th October 2003.
- [208] *Fuzzy Norms, Default Reasoning and Equilibrium Selection in Games under Unforeseen Contingencies and Incomplete Knowledge*, seminar held at the Catholic University of Milan, Italy, 4th June 2002.
- [209] *Introduction to TU-games*, seminar held at the Polytechnic of Turin, Italy, 24th April 2002
- [210] *Introduction to TU-games and the Shapley value : some examples referred to the class of simple games*, seminar held at the University of Eastern Piemonte, Alessandria, Italy, 18th March 2002
- [211] *Fuzzy sets and Possibility Theory for modelling unforeseen events and incomplete knowledge*, seminar held at the Department of Mathematics, University of Genoa, 8th August 2002.
- [212] *Connection problems on graphs and monotonic allocation schemes*, semina held at the Department of Mathematics, University of Genoa, 16th March 2001.

Dissemination and popularization

- [213] Retour sur : Paris-Dauphine accueille la treizième édition de la conférence européenne dédiée à la théorie des jeux La Lettre de Paris-Dauphine Université Paris-Dauphine - Fondation Dauphine - Dauphine Alumni Septembre/Octobre 2017 N° 33.

- [214] Mode de scrutin à PSL : inspiré par le Conseil de l'Europe et préparé par le Lamsade-Dauphine Paris *News Tank* Publié le vendredi 12 juin 2015 à 15 h 59 - Actualité n° 44273.
- [215] G.P. Tonini, S. Moretti, Così la Teoria dei Giochi stana i neuroblastomi (2009) *Il sole 24ore*, inserto Sanità. Anno XI, 39, 12-13. (*in Italian*).
- [216] 4th June 2007, *Teoria dei giochi e stime di potere dei geni, Solo per gioco?* giornata per la divulgazione scientifica, Palafiori, Sanremo (Imperia, Italy). (Seminar in Italian).
- [217] 31st October 2006, *Teoria dei giochi e stime di potere dei geni, Festival della Scienza 2006*, Genova, Italy. (Seminar in Italian).
- [218] 30th October and 1st November 2004, *Giochi tra geni, Festival della Scienza 2004*, Genova, Italy. (Seminar in Italian).