List of publications of Stefano MORETTI

Peer reviewed International Journals

(Game Theory)


Statistical analysis of biological data


**International Conference Proceedings (Peer-reviewed)***


National journals and conferences


Books chapters


Dissertations


Working papers


editorial activity

Communications to international conferences and schools


[80] On cooperative connection situations where the players are located at the edges par Stefano Moretti. Communication orale, 12th European Meeting on Game Theory (SING11-GTM2015) (SING12), Odense, Danemark, 11-13 July 2016

[81] On social rankings and their properties. 17e 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)


[84] On some applications of Coalitional games. Plan Apoyo Doctorado, PhD course at the Instituto de Matemáticas Universidad de Sevilla Antonio de C. Brzezicki, Spain, 23-24 November 2015.


[86] Generalized additive games. 11th European Meeting on Game Theory (SING11-GTM2015) (SING11-GTM2015), St. Petersburg, Russia, 8-10 July 2015

[88] 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.

[89] Coalitional games for abstract argumentation, 10th Spain-Italy-Netherlands Meeting on Game Theory (SING10), Kraków, Poland, 7-9 July 2014

[90] On some applications of Coalitional games, Game theoretical models for engineering, PhD course at Politecnico di Milano, 24-26 Mars 2014.


[93] 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.

[94] Ordinal power indices for ordinal coalitional games, 9th Spain-Italy-Netherlands Meeting on Game Theory (SING9), Vigo, Spain, 8-10 July 2013

[95] On the problem of coordinating self-interested agents placed on a network to realize a socially optimal system, Workshop Game Theory @ the Universities of Milan III, Politecnico di Milano, Dipartimento di Matematica, 23-24 May 2013.

[96] Extending preferences with probabilistic values for games, accepted for presentation at the 14th 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)

[97] Ranking sets of objects using the Shapley value and other regular semivalues, DIMACS Workshop on Algorithmic Aspects of Information Fusion (WAIF), DIMACS Center, Rutgers University, USA, 8-9 November 2012.

[98] 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)

[99] 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)


[101] 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.

[102] 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. Tsoukiás)

[103] 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).
An Application Of Microarray Games To Gene Expression Analysis \textsuperscript{103} Sixth International Meeting On Computational Intelligence Methods For Bioinformatics And Biostatistics, Genoa, Italy, 15-17 October 2009.

Co-expression network games \textsuperscript{104} Sixth Annual Meeting of the Bioinformatics Italian Society, Genoa, Italy, 18 - 20 March 2009 (poster section).

Combining Shapley value and statistics to the analysis of gene expression data in children exposed to air pollution \textsuperscript{105} XXXIX Annual Conference of the Italian Association of Operations Research, Ischia, Italy, 7 - 11 September 2008.

Game theory applied to tumor microarray data for gene selection, XXXVIII Annual Conference of the Italian Association of Operations Research, Genoa, Italy, 207;


Minimum cost spanning tree situations and gene expression data analysis, GameNets’06, Pisa, Italy, 2006.


Game theory applied to gene expression analysis, SING2 Second Spain Italy Netherlands meeting on Game Theory, Foggia, Italy, 2006.


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.


Connection problem on mountains and monotonic allocation schemes, Game Practice and the Environment, Alessandria, Italy, 2002.

Seminars and other communications


133. *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.

134. *A (not so short) introduction to my CNRS research program*, seminars of LAMSADE, Université Paris Dauphine, 5th May 2010.
Power Indices and Game Theory (with Applications in Bioinformatics), invited speaker at the COST-ADT Doctoral School on Computational Social Choice organised by the European Science Foundation, COST Action on Algorithmic Decision Theory, Estoril, Lisbon, Portugal, 12th April 2010.

“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 February 2009 (conférencier invité)


Game Theory applied to gene expression analysis, Seminario Giovani, Department of Mathematics, Université de Gênes, Italie, 7th December 2006.

La statistica dei microarray, Basic course on microarrays, National Research Cancer Institute, Genova, Italy, 21st November 2006.

Alternative models using game theory in gene expression analysis Workshop on Game Theory and Engineering, Milano, Italy, 7th June 2006.

Game Theory applied to gene expression analysis, Ph.D dissertation defence, Department of Mathematics, University of Genoa, Italy, 25th May 2006.

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.

Microarray Games, seminar held at the Department of Mathematics, Catholic University, Brescia, Italy, 19th May 2005.

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.

Microarray games and the relevance index for genes, seminar held at the Department of Mathematics, University of Genoa, Italy, 26th November 2004.

Microarray games and the relevance index for genes, University of Pisa, Italy, 29th October 2004.


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.

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.
Environmental applications of TU-games, seminar held at the University of Como, Italy, 18th March 2004.

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.

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.

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.

Introduction to TU-games, seminar held at the Polytechnic of Turin, Italy, 24th April 2002

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

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.

Connection problems on graphs and monotonic allocation schemes, seminar held at the Department of Mathematics, University of Genoa, 16th March 2001.

Popular scientific talks

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)

31st October 2006, Teoria dei giochi e stime di potere dei geni, Festival della Scienza 2006, Genova, Italy. (Seminar in Italian)

30th October and 1st November 2004, Giochi tra geni, Festival della Scienza 2004, Genova, Italy. (Seminar in Italian).