

Curriculum Vitæ: January 2, 2022

### Personal data

Born	October 19, 1979, Saint-Etienne, France
Citizenship	French
Gender	Male
Marital status	Married, one son
Professional address	Université de Franche-Comté, CRESE, 30, Avenue de l'Observatoire, 25009 Besançon
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Personal Url	<a href="http://sites.google.com/site/bealpage/">http://sites.google.com/site/bealpage/</a>
Professional Url	<a href="https://crese.univ-fcomte.fr/fr/fiche-membre/26">https://crese.univ-fcomte.fr/fr/fiche-membre/26</a>
Page at IDEAS	<a href="http://ideas.repec.org/f/pba617.html">http://ideas.repec.org/f/pba617.html</a>
Page at DBLP	<a href="http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/b/B=eacute=al:Sylvain.html">http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/b/B=eacute=al:Sylvain.html</a>

### Current Position

09/2010–Present **Professeur des Universités (Full Professor)**, *Université de Franche-Comté*, Besançon, France.

### Research interests

Game theory, group and network formation, economic theory, industrial organization, law and economics, operations research, scientometrics.

### Education and employment

- 04/2010 **Agrégation Externe en Sciences Economiques**.
- 09/2009–08/2010 **Maître de Conférences (Assistant Professor)**, *Université Jean Monnet*, Saint-Etienne, France.
- 09/2007–08/2009 **Maître de Conférences (Assistant Professor)**, *Université de Nice Sophia Antipolis*, Nice, France.
- 07/2006–08/2007 **Post-doctoral fellow**, *Universität Heidelberg*, Alfred Weber Institut, Heidelberg, Germany.
- 09/2005–06/2006 **Attaché Temporaire à l'Enseignement et à la Recherche (Assistant professor, one year fixed term position)**, *Université Jean Monnet*, Saint-Etienne, France.
- 10/2002–12/2005 **Ph.D. “Jeux de machines et réseaux sociaux”, Economics**, *Université Jean Monnet*, Saint-Etienne, France, *highest level of distinction for a Ph.D.*  
Committee: Michel Bellet (supervisor), Gabriel Desgranges, Philippe Solal (supervisor), Jean-Marc Tallon (referee), Bernard Walliser (referee).
- 10/2001–09/2002 **Diplôme d'étude approfondie (MA)**, *Université Lyon II*, Lyon, France, *Cum Laude*.
- 09/1997–07/2001 **Maitrise sciences économiques (BA), Economics**, *Université Jean Monnet*, Saint-Etienne, France, *Magna Cum Laude (ranked first)*.

### Scientific responsibilities

- 06/2022 **Member of Organizing Committee**, *70th Congress of the French Economic Association (AFSE)*, Dijon.
- 04/2021 **Scientific Expert**, *Deutsche Forschungsgemeinschaft* .
- 05/2021 **Member of Recruitment Committee**, *Université de Franche-Comté*, Besançon.
- 06/2019 **Member of Organizing Committee**, *36th International Symposium on Money, Banking and Finance, annual meeting of the European Research Group (GdRE) on Money Banking and Finance*, Besançon.
- 06/2018 **Member of Program Committee**, *67th AFSE congress*, Paris.
- 05/2018 **Member of Recruitment Committee**, *Université de Franche-Comté*, Besançon.
- 06/2017 **Member of Program Committee**, *66th AFSE congress*, Nice.
- 06/2016 **Member of Program Committee**, *65th AFSE congress*, Nancy.
- 05/2016 **Member of Recruitment Committee**, *Université de Franche-Comté*, Besançon.
- 09/2015–12/2021 **Head of CRESE (Centre de REcherche sur les Stratégies Economiques)**, <http://crese.univ-fcomte.fr/>.
- 06/2015 **Member of Program Committee**, *64th AFSE congress*, Rennes.
- 05/2015 **President of Recruitment Committee**, *Université de Franche-Comté*, Besançon.
- 06/2014 **Member of Program Committee**, *63th AFSE congress*, Lyon.
- 05/2014 **External Member of Recruitment Committee**, *Université Paris I Panthéon-Sorbonne*, Paris.
- 05/2013 **Internal Member of Recruitment Committee**, *Université de Franche-Comté*, Besançon.
- 04/2012–04/2016 **Elected Member of the Scientific Advisory Board**, *Université de Franche-Comté*, Besançon.
- 05/2011 **External Member of Recruitment Committee**, *Université de Saint-Etienne*, Roanne.
- 05/2009 **Internal Member of Recruitment Committee**, *Université de Nice Sophia Antipolis*, Nice.

## Participation to grants and awards

- 2020–2021 **Research agreement on crowdfunding and sustainable finance**, research project financed by Chaire Fintech, Université Paris Dauphine.
- 2019–2021 **Research agreement on cost allocation**, research project financed by La Poste.
- 2014–2018 **“Prime d’Encadrement Doctoral et de Recherche” (PEDR, Premium for doctoral supervision and research)**.
- 2013–2017 **DynaMITE (Dynamic Matching and Interactions: Theory and Experiments)**, research project financed by the French Ministry of Research.
- 2013 **MoCSOG (Modèle de Circulation Stratégique d’Objets sur des Graphes)**, research project financed by the CNRS.
- 2012–2013 **BQR “Allocation rules and cores for cooperative games”**, research project financed by Université de Franche-Comté.
- 2011 **BQR “Analysis of solutions for cooperative games”**, research project financed by Université de Franche-Comté.
- 2009–2013 **MINT (Models of Influence and Network Theory)**, research project ANR.09.BLANC-0321.03 financed by the French Ministry of Research.
- 2008–2009 **“Cooperation, allocation and complexity”**, research project financed by IXXI (Complex Systems Institute of Rhône-Alpes).
- 2009 **BQR “Cooperative games with limited communication”**, research project financed by Université de Nice Sophia Antipolis.
- 2007–2008 **“Routing and cooperative games”**, research project financed by IXXI (Complex Systems Institute of Rhône-Alpes).
- 2006–2007 **Sonderforschungsbereich (SFB) 504**, research project financed by the Deutsche Forschungsgemeinschaft (DFG), the German National Science Foundation.
- 2004–2006 **Action Concertée Incitative SCSHS-2004-04**, research project financed by the French Ministry of Research.

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## Published book

- [1] *Théorie des jeux coopératifs et non-coopératifs. Application aux sciences sociales. Cours et exercices corrigés*, with Yannick Gabuthy, **De Boeck**, April 2018, ISBN-13: 978-2807313552.

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## Published articles

- [52] “Inconsistent weighting in weighted voting games”, 2021, with Marc Deschamps, Mostapha Diss and Issouf Moyouwou, forthcoming in **Public Choice**.
- [51] “Allocation rules for cooperative games with restricted communication and a priori unions based on the Myerson value and the Average tree solution”, with Eric Rémila and Philippe Solal, forthcoming in **Journal of Combinatorial Optimization**.
- [50] “The priority value for cooperative games with a priority structure”, with Sylvain Ferrières and Philippe Solal, forthcoming in **International Journal of Game Theory**.
- [49] “Cohesive efficiency in TU-games: axiomatizations of variants of the Shapley value, egalitarian values and their convex combinations”, 2021, with André Casajus, Eric Rémila and Philippe Solal, **Annals of Operations Research** 302:23–47.
- [48] “Taxing congestion of the space commons”, 2020, with Marc Deschamps and Hervé Moulin, **Acta Astronautica** 177:313–319.
- [47] “Necessary versus equal players in axiomatic studies”, 2020, with Florian Navarro, **Operations Research Letters** 48:385–391.
- [46] “Cooperative games on intersection closed systems and the Shapley value”, with Issouf Moyouwou, Eric Rémila and Philippe Solal, 2020, **Mathematical Social Sciences** 104:15–22.
- [45] “Relationship between labeled network games and other cooperative games arising from attributes situations”, with Encarnación Algaba, Vito Fragnelli, Natividad Llorca and Joaquín Sánchez-Soriano, 2019, **Economics Letters**, 185:108708.
- [44] “Harsanyi power solutions for cooperative games on voting structures”, with Encarnación Algaba, Eric Rémila and Philippe Solal, 2019, **International Journal of General Systems** 48:575–602.
- [43] “Coalitional desirability and the equal division value”, with Eric Rémila and Philippe Solal, 2019, **Theory and Decision** 86:95–106.
- [42] “The proportional Shapley value and applications”, with Sylvain Ferrières, Eric Rémila and Philippe Solal, 2018, **Games and Economic Behavior** 108:93–112.
- [41] “Axiomatic and bargaining foundations of an allocation rule for ordered tree TU-games”, with Sylvain Ferrières, Eric Rémila and Philippe Solal, 2018, **Mathematical Social Sciences** 93:132–140.
- [40] “Efficient extensions of communications values”, with André Casajus and Frank Huettner, 2018, **Annals of Operations Research** 264:41–56.
- [39] “Two-step values for games with two-level communication structure”, with Anna Khmel'nitskaya and Philippe Solal, 2018, **Journal of Combinatorial Optimization** 35:563–587.
- [38] “Axiomatization and implementation of a class of solidarity values for TU-games”, 2017, with Eric Rémila and Philippe Solal, **Theory and Decision** 83:61–94.
- [37] “A strategic implementation of the Sequential Equal Surplus Division rule for rooted trees”, 2017, with Eric Rémila and Philippe Solal, **Annals of Operations Research** 253:43–59.
- [36] “Discounted tree solutions”, 2017, with Eric Rémila and Philippe Solal, **Discrete Applied Mathematics** 219:1–17.
- [35] “Comparable axiomatizations of two allocation rules for cooperative games with transferable utility and their subclass of data games”, 2016, with Marc Deschamps and Philippe Solal, **Journal of Public Economic Theory** 18:992–1004.
- [34] “On the existence of efficient and fair extensions of communication values for connected graphs”, 2016, with André Casajus and Frank Huettner, **Economics Letters** 146:103–106.

- [33] “Characterizations of three linear values for TU games by associated consistency: simple proofs using the Jordan normal form”, 2016, with Eric Rémila and Philippe Solal, *International Game Theory Review* 18:1650003.
- [32] “Characterizations of weighted and equal division values”, 2016, with André Casajus, Frank Huettner, Eric Rémila and Philippe Solal, *Theory and Decision* 80:649–667.
- [31] “Axiomatic characterizations under players nullification”, 2016, with Sylvain Ferrières, Eric Rémila and Philippe Solal, *Mathematical Social Sciences* 80:47–57.
- [30] “On compensation schemes for data sharing within the European REACH legislation”, 2016, with Marc Deschamps, *European Journal of Law and Economics* 41:157–181.
- [29] “Efficient extensions of the Myerson value”, 2015, with André Casajus and Frank Huettner, *Social Choice & Welfare* 45:819–827.
- [28] “Axioms of Invariance for TU-games”, 2015, with Eric Rémila and Philippe Solal, *International Journal of Game Theory* 44:891–902.
- [27] “The Sequential Equal Surplus Division for Rooted Forest Games and an Application to Sharing a River with Bifurcations”, 2015, with Amandine Ghintran, Eric Rémila and Philippe Solal, *Theory and Decision* 79:251–283.
- [26] “Characterization of the Average Tree solution and its kernel”, 2015, with Eric Rémila and Philippe Solal, *Journal of Mathematical Economics* 60:159–165.
- [25] “A decomposition of the space of TU-games using addition and transfer invariance”, 2015, with Eric Rémila and Philippe Solal, *Discrete Applied Mathematics* 184:1–13.
- [24] “Decomposition of the space of TU-games, Strong Transfer Invariance and the Banzhaf value”, 2015, with Eric Rémila and Philippe Solal, *Operations Research Letters* 43:123–125.
- [23] “Freezeout, compensation rules and strategic voting equilibria”, 2015, with Christian At and Pierre-Henri Morand, *International Review of Law and Economics* 41:91–102.
- [22] “Preserving or removing special players: what keeps your payoff unchanged in TU-games?”, 2015, with Eric Rémila and Philippe Solal, *Mathematical Social Sciences* 73:23–31.
- [21] “Solidarity within a fixed community”, 2014, with André Casajus, Frank Huettner, Eric Rémila and Philippe Solal, *Economics Letters* 125:440–443.
- [20] “The River Sharing Problem: A Survey”, 2013, with Amandine Ghintran, Eric Rémila and Philippe Solal, *International Game Theory Review* 15:1340016.
- [19] “Accessibility and Stability of the Coalition Structure Core”, 2013, with Eric Rémila and Philippe Solal, *Mathematical Methods of Operations Research* 78:187–202.
- [18] “An optimal bound to access the core in TU-games”, 2013, with Eric Rémila and Philippe Solal, *Games and Economic Behavior* 80:1–9.
- [17] “Weighted Component Fairness for Forest Games”, 2012, with Eric Rémila and Philippe Solal, *Mathematical Social Sciences* 64:144–151.
- [16] “The Average Tree Solution for Multichoice Forest Games”, 2012, with Aymeric Lardon, Eric Rémila and Philippe Solal, *Annals of Operations Research* 196:27–51.
- [15] “Fairness and Fairness for Neighbors: The Difference between the Myerson Value and Component-Wise Egalitarian Solutions”, 2012, with Eric Rémila and Philippe Solal, *Economics letters* 117:263–267.
- [14] “On the Number of Blocks Required to Access the Core”, 2012, with Eric Rémila and Philippe Solal, *Discrete Applied Mathematics* 160:925–932.
- [13] “Compensations in the Shapley value and the compensation solutions for graph games”, 2012, with Eric Rémila and Philippe Solal, *International Journal of Game Theory* 41:157–178.
- [12] “Les effets d’une réglementation sur la concurrence et l’innovation : première analyse de la réglementation européenne REACH”, 2011, with Marc Deschamps, Joël-Thomas Ravix and Olivier Sautel, *Economie et Prévision* 197-198:63–80.
- [11] “La mise en place de la législation européenne REACH : Une analyse des effets anticoncurrentiels”, 2011, with Marc Deschamps, Joël-Thomas Ravix and Olivier Sautel, *Revue de l’OFCE* 118:113–128.
- [10] “Average Tree Solutions and the Distribution of Harsanyi Dividends”, 2011, with Richard Baron, Eric Rémila and Philippe Solal, *International Journal of Game Theory* 40:331–349.

- [9] “Les informations exigées par la législation REACH : Analyse du partage des coûts”, 2010, with Marc Deschamps, Joël-Thomas Ravix and Olivier Sautel, *Revue d’Economie Politique* **120**:109-132.
- [8] “Règles d’allocation pour les programmes de pass culturels”, 2010, with Philippe Solal, *Revue Economique* **61**:1099-1109.
- [7] “Partial Cooperative Equilibria: Existence and Characterization”, 2010, with Subhadip Chakrabarti, Amandine Ghintran and Philippe Solal, *Games* **1**:338–356.
- [6] “Perceptron versus Automaton in the Finitely Repeated Prisoner’s Dilemma”, 2010, *Theory and Decision* **69**:183–204.
- [5] “Rooted-tree Solutions for Tree Games”, 2010, with Eric Rémila and Philippe Solal, *European Journal of Operational Research* **203**:404–408.
- [4] “Farsighted Coalitional Stability in TU-games”, 2008, with Jacques Durieu and Philippe Solal, *Mathematical Social Sciences* **56**:303–313.
- [3] “Bounded Rationality and Repeated Network Formation”, 2007, with Nicolas Quérou, *Mathematical Social Sciences* **54**:71–89.
- [2] “Comportements adaptatifs sans croyances”, 2006, with Jacques Durieu, *Revue d’Economie Industrielle* **114–115**:119–140.
- [1] “Rationalité limitée et jeux de machines”, 2005, *Revue Economique* **56**:1033–1063.

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## Other publications

- [4] “Chapter 6: Games with Identical Shapley Values”, with Mihai Manea, Eric Rémila, and Philippe Solal, *Handbook of the Shapley Value*, 1st Edition, Encarnación Algaba, Vito Fragnelli, Joaquín Sánchez-Soriano, (eds.), Chapman and Hall/CRC Press, 2019.
- [3] “REACH Legislation”, with Marc Deschamps and Philippe Solal, *Encyclopedia of Law and Economics*, A. Marciano, G.B. Ramello (eds.), Springer, 2019.
- [2] “Anticiper et choisir”, *La vie des idées*, February 3, 2014.
- [1] “An Optimal Bound to Access the Core in TU-Games”, with Eric Rémila and Philippe Solal, *Algorithmic Game Theory: 5th International Symposium, SAGT 2012*, 2012, 49-60.

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## Working papers

- [4] “Lexicographic solutions for coalitional rankings based on individual and collective performances”, 2021, with Eric Rémila and Philippe Solal, *under revision*.
- [3] “A Core-partition solution for coalitional rankings with a variable population domain”, 2021, with Sylvain Ferrières and Philippe Solal, *submitted*.
- [2] “The multidimensional  $h$ -index as a sport ranking: Axiomatic and empirical results”, 2020, with Sylvain Ferrières, Eric Rémila and Philippe Solal.
- [1] “Examination design: an axiomatic approach”, 2019, with Sylvain Ferrières, CRESE Working paper 2019-05.

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## Works in progress and unpublished articles

- [5] “Axiomatic characterizations of the core based on Pigou-Dalton transfers”, 2021, with Stéphane Gonzalez, Philippe Solal and Peter Sudhölter.
- [5] “Differential coalitional desirability and the equal division value”, 2018, with Eric Rémila and Philippe Solal.
- [4] “Veto players, the Kernel of the Shapley value and its characterization”, 2014, with Eric Rémila and Philippe Solal, CRESE Working paper 2014-03.
- [3] “Limited Farsighted Coalitional Stability”, 2006.
- [2] “Complexity Cost in a Finite Horizon Machine Game”, 2005.
- [1] “On the Complexity of Games Played on Hypergraphs”, 2003.

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## Editorial service

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## Refereeing

4OR, Annals of Operations Research, B.E. Journal of Theoretical Economics, Computers & Operations Research, Discrete Applied Mathematics, Ecological Economics, Econometrica, Economics letters, Economie et Prévision, Enterprise Information Systems, Environmental and Resource Economics, European Journal of Law and Economics, European Journal of Operational Research, Games, Games and Economic Behavior, Group Decision and Negotiation, IEEE Transactions on Fuzzy Systems, International Economic Review, International Game Theory Review, International Journal of Approximate Reasoning, International Journal of Game Theory, Journal of Combinatorial Optimization, Journal of Economic Theory, Journal of Environmental Economics and Management, Journal of Game Theory, Journal of Mathematical Economics, Journal of Optimization Theory and Applications, Mathematical Programming, Mathematical Social Sciences, Mathematics of Operations Research, Operations Research Letters, Portuguese Economic Journal, Review of Economic Design, Revue d'Economie Industrielle, Revue d'Economie Politique, Social Choice and Welfare, Social Network, Theory and Decision.

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## Conference presentations

- [30] “A characterization of the core for totally positive games without any consistency axiom”, 31rd European Conference on Operational Research (EURO 31), Athens, Greece, July 14, 2021.
- [29] “A characterization of the core for totally positive games without any consistency axiom”, sixteenth Spain Italy Netherlands Meeting on Game Theory (SING XVI), Granada, Spain, June 30, 2021.
- [28] “L’apport de la théorie des jeux coopératifs à la gestion des fleuves”, Journée ZAAJ en Économie, Besançon, France, January 10, 2019.
- [27] “Collections of coalitions: an axiomatic approach”, Paris Symposium on Games 2018, Paris, France, June 11-15, 2018.
- [26] “An axiomatization of the iterated h-index and applications to sport rankings”, 10th seminar day OSGAD, Paris, France, November 8, 2016.
- [25] “Sequential equal surplus division rule”, Workshop “Strategic Interactions, Information Transmission and Externalities in Networks”, Paris, France, May 24-25, 2016.
- [24] “Characterizations of the Average Tree solution and its kernel”, Workshop on Dynamic Networks, Paris, France, December 15, 2014.
- [23] “Efficient extensions of communication values”, 7th seminar day OSGAD, Paris, France, November 8, 2013.
- [22] “Values, solidarity and addition invariance with respect to bi-partitions”, ninth Spain Italy Netherlands Meeting on Game Theory (SING IX), Vigo, Spain, July 8-10, 2013.
- [21] “The Sequential Equal Surplus Division for Sharing a River”, GAMES 2012 – Fourth World Congress of the Game Theory Society, Istanbul, Turkey, July 22-26, 2012.
- [20] “Axioms of Invariance for TU-games”, eighth Spain Italy Netherlands Meeting on Game Theory (SING VIII), Budapest, Hungary, July 16-18, 2012.
- [19] “Fairness and Fairness for Neighbors: The Difference between the Myerson Value and Component-Wise Egalitarian Solutions”, MINT Workshop, Paris, France, May 14-15, 2012.
- [18] “On the Number of Blocks Required to Access the Core”, seventh Spain Italy Netherlands Meeting on Game Theory (SING VII), Paris, France, July 18-20, 2011.
- [17] “The Average Tree Solution for Multichoice Forest Games”, MINT Workshop, Paris, France, May 19, 2011.
- [16] “On the Number of Blocks Required to Access the Core”, ROADEF 2011, Saint-Etienne, France, March 2-4, 2011.
- [15] “Weighted Component Fairness for Forest Games”, Conference in Honor of Hans Haller, Bâton-Rouge, USA, February 25-26, 2011.
- [14] “Compensations in the Shapley value and the compensation solutions for graph games”, sixth Spain Italy Netherlands Meeting on Game Theory (SING VI), Palermo, Italy, July 7-9, 2010.



- [13] “Compensations in the Shapley value and the compensation solutions for graph games”, 15th Coalition Theory Network Workshop Marseille, France, June 17-18, 2010.
- [12] “Les informations exigées par la législation REACH : Analyse du partage des coûts”, 27ème journées de microéconomie appliquée, Angers, France, June, 3-4, 2010
- [11] “Compensations in the Shapley value and the compensation solutions for graph games”, First International Workshop “Models of Influence and Network Theory”, Lyon, France, February, 15-16, 2010.
- [10] “Tree Solutions for Graph Games”, 23rd European Conference on Operational Research (EURO 23), Bonn, Germany, July 5-8, 2009.
- [9] “Weighted Component Fairness for Forest Games”, fifth Spain Italy Netherlands Meeting on Game Theory (SING V), Amsterdam, The Netherlands, July 1-3, 2009.
- [8] “Perceptron versus Automaton”, GAMES 2008 – Third World Congress of the Game Theory Society, Evanston, USA, July 12-17, 2008
- [7] “Farsighted Coalitional Stability in TU-games”, The 18th International Conference on Game Theory, Stony Brook University, USA, July 9-13, 2007.
- [6] “Farsighted Coalitional Stability in TU-games”, Third Spain Italy Netherlands Meeting on Game Theory (SING III), Madrid, Spain, July 4-6, 2007.
- [5] “Farsighted Coalitional Stability in TU-games”, Journées doctorales de l’ADRES, Paris, France, January 19-20, 2007.
- [4] “Perceptron versus Automaton”, Complex Behavior in Economics : Modeling, Computing and Mastering Complexity, Aix-en-Provence, France, May 19-21, 2006.
- [3] “Bounded Rationality and Repeated Network Formation”, European Conference on Complex Systems, Paris, France, November 14-18, 2005.
- [2] “Bounded Rationality and Repeated Network Formation”, The 16th International Conference on Game Theory, Stony Brook University, USA, July 11-15, 2005.
- [1] “Bounded Rationality and Repeated Network Formation”, First Spain Italy Netherlands Meeting on Game Theory (SING), Maastricht, Netherlands, June 24-26, 2005.

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## Seminars

- [22] “Axiomatic characterizations of the core based on Pigou-Dalton transfers”, University of Windsor, Windsor, Canada, November 12, 2021.
- [21] “The priority value for cooperative games with a priority structure”, Institut Henri Poincaré, Paris, France, March 15, 2021.
- [20] “La répartition équitable des ressources rares par la théorie des jeux coopératifs”, Séminaire interne La Poste, Paris, France, May 15, 2019.
- [19] “L’axiomatisation en théorie des jeux coopératifs”, Colloquim LMB, Besançon, November 17, 2016.
- [18] “The Sequential Equal Surplus Division for Sharing a River with Bifurcations”, Universität Leipzig, Germany, December 19, 2012.
- [17] “The Sequential Equal Surplus Division for Sharing a River with Bifurcations”, Queen’s University Belfast, Ireland, November 23, 2012.
- [16] “Compensations in the Shapley value and the compensation solutions for graph games”, Université de Franche-Comté, France, October 14, 2010.
- [15] “Compensations in the Shapley value and the compensation solutions for graph games”, Université de Caen, France, January 25, 2010.
- [14] “Tree Solutions for Graph Games”, MDOD seminar, Université de Paris I, France, March 10, 2009.
- [13] “Tree Solutions for Graph Games”, CentER, Tilburg University, The Netherlands, February 26, 2009.
- [12] “Perceptron versus Automaton”, GATE, Université de Lyon, France, October 13, 2008.
- [11] “Average tree solutions for graph games”, School of Management and Economics, Queen’s University Belfast, Ireland, October 10, 2008.

- [10] “Average tree solutions for graph games”, GREDEG, Université de Nice Sophia Antipolis, France, October 2, 2008.
- [9] “Farsighted Coalitional Stability in TU-games”, GREDEG, Université de Nice Sophia Antipolis, France, October 19, 2007.
- [8] “Farsighted Coalitional Stability in TU-games”, Keele University, England, March 13, 2007.
- [7] “Farsighted Coalitional Stability in TU-games”, Alfred Weber Institut, Universität Heidelberg, Germany, January 10, 2007.
- [6] “Perceptron versus Automaton”, Séminaire interne, EURISE, Université Jean Monnet, Saint-Etienne, France, April 19, 2006.
- [5] “Perceptron versus Automaton”, Journée de l’Institut des Systèmes Complexes, ENS, Lyon, France, April 11, 2006.
- [4] “Perceptron versus Automaton”, Alfred Weber Institut, Universität Heidelberg, Germany, April 5, 2006.
- [3] “Perceptron versus Automaton”, Institut Henri Poincaré, Paris, France, November 14, 2005.
- [2] “Bounded Rationality and Repeated Network Formation”, EUREQua, Maison des Sciences Economiques, Paris, France, May 13, 2005.
- [1] “Complexity Cost in a Finite Horizon Machine Game”, CREUSET, Université Jean Monnet, Saint-Etienne, France, May 14, 2004.

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## Ph.D. and PostDoc advisorships

- [4] **Léa Munich**, Ph.D. student “The theory of cooperative games at the service of large companies: cost sharing and pricing of network access”, Université de Lorraine and La Poste, 10/2020 – .
- [3] **Guillaume Sekli**, Ph.D. student “Applications of cooperative games”, Université de Franche-Comté, 10/2019 – .
- [2] **Frank Huettner**, PostDoc “Solidarity principles in cooperative game theory”, Université de Franche-Comté, 03/2013 – 08/2013.
- [1] **Sylvain Ferrières**, Ph.D. “Four essays on the axiomatic method with an emphasis in cooperative games”, Université de Franche-Comté, 02/2013 – 11/2016.

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## Ph.D. and Habilitation committees

- [6] Ph.D. defense, Rodrigue Tido-Takeng [**Examiner**], “Essais sur la répartition des gains dans un jeu coopératif : indice d’interaction, valeur de Shapley-Owen, valeur de Myerson”, Université de Caen Normandie, November 30, 2021.
- [5] Ph.D. defense, Florian Navarro [**Examiner**], “Économie des réseaux et jeux coopératifs”, Université de Lille, July 4, 2018.
- [4] Habilitation defense, Sébastien Courtin [**Examiner**], “Comportements individuels et collectifs : Etudes des procédures de vote et Du pouvoir des différents membres dans un jeu politique”, Université de Cergy Pontoise, November 21, 2014.
- [3] Ph.D. defense, Jonathan Masson [**Examiner**], “L’allocation des efforts de lutte contre la pollution d’une rivière: équité, incitations et mécanismes”, Université de Rouen, March 26, 2014.
- [2] Ph.D. defense, Aymeric Lardon, “Five Essays on Cooperative Oligopoly Games”, Université Jean Monnet de Saint-Etienne, October 13, 2011.
- [1] Ph.D. defense, Sonia Mahjoub [**Examiner**], “Etude des apports de la théorie des jeux en conception de chaînes logistiques : approche coopérative et approche stratégique”, Université Paul Cézanne Aix-Marseille III and Institut supérieur de gestion de Tunis, October 4, 2011.

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## Teachings

- 2020–2022 **L<sup>A</sup>T<sub>E</sub>X**, *doctoral course, Université de Franche-Comté, Besançon.*
- 2020–2022 **Mathematics**, *first-year tutorial in economics, Université de Franche-Comté, Besançon.*
- 2019–2020 **International Trade**, *third-year course in economics, Université de Franche-Comté, Besançon.*



- 2019–2020 2021–2022 **Cooperative Game Theory**, *doctoral course in economics, law and business, Université de Franche-Comté, Besançon.*
- 2018–2019 2020–2021 **Non-cooperative Game Theory and Matching**, *doctoral course in economics, law and business, Université de Franche-Comté, Besançon.*
- 2018–2022 **Consumer Theory**, *first-year tutorial in economics, Université de Franche-Comté, Besançon.*
- 2018–2022 **Cooperative Game Theory**, *fourth-year course in economics, Université de Franche-Comté, Besançon.*
- 2017–2022 **Operational Research**, *third-year course in economics, Université de Franche-Comté, Besançon.*
- 2017–2022 **Operational Research**, *third-year tutorial in economics, Université de Franche-Comté, Besançon.*
- 2017–2018 **Operational Research**, *fourth-year course in economics, Université de Franche-Comté, Besançon.*
- 2015–2017 **Economics of political decision making**, *third-year course in economics, Université de Franche-Comté, Besançon.*
- 2015–2016 **Introduction to academic research in economics**, *third-year course in economics, Université de Franche-Comté, Besançon.*
- 2014–2019 **Game Theory**, *third-year course in economics, Université de Franche-Comté, Besançon.*
- 2013–2015 **Introduction to Game Theory**, *first-year course in economics, Université de Franche-Comté, Besançon.*
- 2012–2017 **Cooperative Game Theory**, *fifth-year course in economics, Université de Franche-Comté, Besançon.*
- 2012–2017 2018–2022 **Consumer Theory**, *first-year course in economics, Université de Franche-Comté, Besançon.*
- 2010–2012 **Industrial organization**, *third-year course and tutorials in economics, Université de Franche-Comté, Besançon.*
- 2010–2017 **Descriptive statistics**, *fourth-year course and tutorials in economics, Université de Franche-Comté, Besançon.*
- 2010–2017 **Dynamic game theory**, *fourth-year course and tutorials in economics, Université de Franche-Comté, Besançon.*
- 2010–2014 **Game theory**, *third-year tutorial in economics, Université de Franche-Comté, Besançon.*
- 2010–2013 **Industrial organization**, *second-year tutorial in economics, Université de Franche-Comté, Besançon.*
- 2009–2010 **Cooperative game theory**, *second-year course in mathematics applied to social sciences, Université, Jean Monnet, Saint-Etienne.*
- 2009–2010 **The foundations of social sciences**, *first-year course in mathematics applied to social sciences, Université Jean Monnet, Saint-Etienne.*
- 2009–2010 **The economics of network industries**, *first-year course in economics, Ecole d'ingénieur TELECOM Saint-Etienne.*
- 2009–2010 **The economics and management of innovation**, *second-year course in economics, Ecole d'ingénieur TELECOM Saint-Etienne.*
- 2008–2009 **Network formation**, *fifth-year course in economics, Université de Nice Sophia Antipolis.*
- 2008–2009 **The economics of network industries**, *fifth-year course in economics, Université de Nice Sophia Antipolis.*
- 2008–2009 **The economics of innovation**, *fourth-year course in economics, Université de Nice Sophia Antipolis.*
- 2007–2009 **Cooperative game theory**, *third-year course in economics, Université de Nice Sophia Antipolis.*
- 2007–2009 **Industrial organization**, *first-year course in economics, Université de Nice Sophia Antipolis.*
- 2007–2008 **Environmental economics**, *fourth-year course in economics, Université de Nice Sophia Antipolis.*
- 2007–2008 **Descriptive statistics**, *first-year course in economics, Université de Nice Sophia Antipolis.*

- 2006–2007 **Contract theory**, *fourth-year seminar, Universität Heidelberg.*
- 2004–2005 **Noncooperative game theory**, *fourth-year course in economics, Université Jean Monnet, Saint-Etienne.*
- 2003–2006 **International economics**, *third-year tutorial in social and economics administration, Université Jean Monnet, Saint-Etienne.*
- 2003–2006 **Microeconomics**, *second-year tutorial in economics, Université Jean Monnet, Saint-Etienne.*

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## Languages

French (mother tongue), English.

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## Memberships

Game Theory Society.