

**C.V. Stef Tijs**

Born: august 31, 1937.

Address: Molenveldlaan 268, 6523 RR Nijmegen, The Netherlands.

Phone number: 0031-24-3227100

Work address:

Tilburg University, CentER and Department of Econometrics and Operation Research,  
P.O. Box 90153, 5000 LE Tilburg, The Netherlands.

E-mail address: S.H.Tijs@uvt.nl

Phone number: 0031-13-4662348

Fax number: 0031-13-4663280

## **Education, degrees and honours**

- 1954-1959          Chemistry, University of Utrecht.  
Final degree: Bachelor's, March 1958.
- 1958-1963          Mathematics, University of Utrecht.  
Final degree: Master's, May 1963.  
Judgement: cum laude (with honours).
- 1975                  PhD, University of Nijmegen.  
Title dissertation: Semi-infinite and infinite matrix games and  
bimatrix games.
- 1987                  Surveys in game theory and related topics  
(eds. H.J.M. Peters and O.J. Vrieze) CWI Tract 39.  
Dedicated to Stef Tijs on the occasion of his 50th birthday.
- 2000                  Doctor Honoris Causa, University Miguel Hernández, Elche.
- 2002                  Chapters in Game Theory. In honor of Stef Tijs (Eds Peter  
Borm and Hans Peters). TDLC, vol. 31, Kluwer Academic  
Publishers.
- 2002                  Honorary editor of the book series C in Theory and Decision  
Library, Kluwer Academic Publishers.
- 2003                  Ridder in de de Orde van de Nederlandse Leeuw.
- 2005                  On Stef Tijs. Int. J. Game Theory, 33, 379-380, 2005  
(Peter Borm, Hans Peters and Jos Potters).

## **Professional Career**

- 1955-1958          Teaching assistant Analytic Chemistry, Utrecht.
- 1959-1960          Teaching assistant Mathematics, Utrecht.
- 1960-1963          Teaching assistant Mathematics, Nijmegen.
- 1963-1969          Research assistant Mathematics, Nijmegen, untenured.
- 1969-1975          Assistant Professor Mathematics, Nijmegen.
- 1975-1985          Associate Professor Mathematics, Nijmegen.
- 1985-1991          Professor of Mathematics, Nijmegen.
- 1990-                  Professor of Mathematics (0.1), Maastricht.
- 1991-                  Professor of Mathematics, Tilburg.
- 2003-2005          Professor of Mathematics, Genoa.
- 09/2007 - 09/2008   Professor of Mathematics, Genoa.

### Research visits

Mathematical Centre, Amsterdam (November 1977), Mathematics Department, University of Illinois, Chicago (June/July 1980, March-June 1982), Indian Statistical Institute, New Delhi (December 1982/January 1983, December 1986/January 1987, December 1990), University of Pavia (July 1984), University of Trento (July 1987), Hebrew University (January 1992/May 1993), University of Genoa (May 1995), Miguel Hernández University, Elche, Spain (May 1999), University of Genoa (May, June 2000), University of Budapest (December 2000), University of Bilbao (January, February 2001), University of Iasi (April 2001), University of Pavia (May, June 2001), University of Naples (November 2001), University of Bielefeld (January, February, July, August 2002), Tokyo Institute of Technology (September-December 2002), University of British Columbia (July-August 2004), Tokyo Institute of Technology (January 2005).

### Membership of program committees of congresses (incomplete list) etc.

August 2004, International Society of Dynamic Games, Qingdao, China.  
September 2003, Logic, Game Theory and Social Choice, Siena, Italy.  
August 2002, Game Theory and Applications, ICM 2002 Satellite Conference, China.  
July 2002, Fifth Spanish Meeting on Game Theory & European Voting Games, Sevilla, Spain.  
April 2002, Game Practice and the Environment, Alessandria, Italy.  
July 2000, Game Practice, Valencia, Spain.  
May 1999, Logic, Game Theory and Social Choice, Tilburg, The Netherlands.  
June 1998, Game Practice, Genoa, Italy.  
June 1998, Game Theory and its Applications, Barcelona, Spain.  
July 1996, International Workshop on Game Theory and Politics and Spanish Meeting on Game Theory, July 1996, Santiago de Compostela, Spain.  
June 1996, Third International Meeting of the Society for Social Choice and Welfare, Maastricht, The Netherlands.  
2000-2008 Member of Council of the Game Theory Society.

## **Editorships of Stef Tijs**

- Associate editor of
  - a. International Journal of Game Theory (1988-2008)
  - b. Games and Economic Behavior (1989-2005)
  - c. Mathematical Methods of Operations Research (1988-2002)
  - d. Mathematical Social Sciences (1994-2004)

- e. Journal of Public Economic Theory (1999-2005)
- f. TOP (1992-2004)
- g. International Game Theory Review (2000-2005)
- Editor in Chief of the book series C in Theory and Decision Library, Kluwer Academic Publishers (1987-2002).
- Editor of a Special Issue of Zeitschrift für Operations Research: Operations Research, Games and Graphs, 1993.
- Editor of volume 109: Game Practice, Annals of Operations Research, Kluwer 2002 (together with I. Garcia-Jurado and F. Patrone).

## **Advanced courses in game theory given by Stef Tijs**

Tilburg: 1996-1999, Nijmegen: 1992-1996, Utrecht: 1996-1999, Elche: 1999, Bergen (Norway): 1999, Genova (Italy): 2000, Naples (Italy): 2001, Tokyo(Japan): 2002, Genoa (Italy): 2003, 2004, 2005, Lavagna (Italy): 2003, Genoa (Italy): 2007, Tilburg: 2007.

# PhD advisorships of Stef Tijs

1. M.J.M. Jansen: Equilibria and optimal threat strategies in two-person games, 1981.
2. O.J. Vrieze: Stochastic games with finite state and action spaces, 1983.
3. T.S.H. Driessen: Contributions to the theory of cooperative games, the  $\tau$ -value and  $k$ -convex games, 1985.
4. P.P. Wakker: Representations of choice situations, 1986.
5. H.J.M. Peters: Bargaining game theory, 1986.
6. I.J. Curiel: Cooperative game theory and applications, 1988.
7. T. Storcken: Possibility theorems for social welfare functions, 1989.
8. F. Thuijsman: Optimality and equilibria in stochastic games, 1989.
9. P. Borm: On game theoretic models and solution concepts, 1990.
10. J. Derks: On polyhedral cones of cooperative games, 1991.
11. A. van den Nouweland: Games and graphs in economic situations, 1993.
12. A.P. Jurg: Some topics in the theory of bimatrix games, 1993.
13. J. Kuipers: Combinatorial methods in cooperative game theory, 1994.
14. H. Monsuur: Choice, ranking and circularity in asymmetric relations, 1994.
15. G.-J. Otten: On decision making in cooperative situations, 1995.
16. V. Feltkamp: Cooperation in controlled network structures, 1995.
17. R. Peeters: Ranks and structure of graphs, 1995.
18. H. Reijnierse: Games, graphs and algorithms, 1995.
19. H. Hamers: Sequencing and delivery situations, 1995.
20. A.J. Vermeulen: Stability in non-cooperative game theory, 1996.
21. E. van Dam: Graphs with few eigenvalues, 1996.
22. J. Suijs: Cooperative decision making in a stochastic environment, 1998.
23. M. Koster: Cost sharing in production situations and network exploitation, 1999.
24. M. Voorneveld: Potential games and interactive decisions with multiple criteria, 1999.
25. J.R.G. van Gellekom: Cost and profit sharing in a cooperative environment, 2000.
26. M. Slikker: Decision making and cooperation restrictions, 2000.
27. F. Klijn: A game theoretic approach to assignment problems, 2000.
28. J. Timmer: Cooperative behaviour, uncertainty and Operations Research, 2001.
29. N. Llorca (Miguel Hernández, Elche): Semi-infinite cooperative games associated to linear programming problems (in Spanish), 2001.
30. J. Vyrastekova: Cheap talk and spiteful preferences in ultimatum games: experiments and evolutionary rationale, 2002.
31. Pham Do Kim Hang: Essays in game theory and natural resource management, 2003.
32. R. Hendrickx: Cooperation and allocation, 2004.
33. M.A. Meertens: Games, economies and fair allocations, 2005.
34. S. Moretti: Cost allocation problems arising from connection situations in an interactive cooperative setting, 2008.
35. S. Zeynep Alparslan Gök (Middle East Technical University, Ankara, 2009): Cooperative interval games.

# Membership of PhD committees of Stef Tijs

1983: E. van Damme  
1988: G. Hesselmans  
1989: M. van Gastel  
1990: V. Eijkhout, P. Bossuijt  
1991: M. Candel, H. Kremers  
1992: H. Norde, F. Spieksma, J. Weststrate, W. Ophelders, M. Kuijper, W. Spanjers  
1993: H. van der Stel  
1994: H. Aarts, V. Allis, H. Houba, R. Hendrickx, M. van Hees  
1995: J. Hurkens, A. ter Veer, E. de Kogel, J.-J. Herings, A. Weeren, J. Arin  
1996: Z. Yang, J. Albizuri Irigoien, R. Joosten, J.K. Winters, M. Oosten  
1997: P. Smit, A. Perea y Monsuwé, H. Jurjus  
1998: A. Münnich, J. Rutten, D. Breuker, J. Flesch, B. Klaus  
1999: A. Possajennikov, R. van de Leensel  
2000: M. del Pilar Montero Garcia, K. Huisman, A. Meca Martinez  
2001: K. Camlibel, D. Paulusma, A.V. Konovalov  
2002: S.Onderstal, P.Calleja Cortés, S.Gaito  
2003: J.Thijssen, H.Sun, G. Kroeze-Gil  
2004: G. Schoenmakers  
2005: E. Fukuda, B. van Velzen, M. Dreef, S. Miguel  
2006: G. De Marco, M. Russolillo, D. Gerace, R. Bosch  
2007: F. Lange  
2008: W. Kets, G. Xu  
2009: B. Ciftci, Ilya Katsev

## Master thesis students

M. Jansen (1975), C. Hazen, T. Teeuwen, J. van Hoek (1976), B. Bloemberg, H. Heijmans, F. Lipperts, R. Meessen (1977), E. van Damme (1979), T. Driessen, H. Peters, J. Stufken (1981), H. Abbenhuis, R. de Koster (1982), J. Derks, T. Storcken (1983), I. Curiel, L. Dirven, H. van Heumen (1984), E. van Gemert, B. Kusters, T. van Riel, F. Thuijsman (1985), P. Borm, C. Koopmans (1986), W. van Are, F. Drissen, A. Gijsberts, R. Poos, B. Veltman (1987), S. van de Aarssen, J. van Leeuwen, R. Wilms, H. Woolschot, R. Meessen (1988), H. Aarts, S. Oortwijn (1989), Y. van Deelen, A. Koster, G.-J. Otten (1990), R. Groot Bruinderink (1993), A. Nielen, J. Suijs, L. Verbeek, H. van de Zalm (1994), M. Slikker (1995), M. Voorneveld (1996), M. Engel, J. Timmer (1997).

## Bachelor thesis student

Bruno Benedetti (2004).

# Lectures on game theory by Stef Tijs

1973: Antwerp  
1975: Amsterdam (2x)  
1976: Amsterdam, Heidelberg  
1977: Amsterdam, Utrecht  
1978: Amsterdam, Mannheim  
1979: Amsterdam, Nijmegen, Saarbrücken  
1980: Oberwolfach, Münster, Nijmegen (2x), Köln, Essen, Hagen-Bonn, Bielefeld,

## Twente

1981: Augsburg, Nijmegen  
1982: Baltimore, IOWA, Chicago, Urbana, Evanston, Ithaca, Sankt Gallen, Nijmegen, New Delhi  
1983: New Delhi, Rotterdam, Bielefeld, Leiden, Delft, Baltimore, Pittsburgh, Chidambaram, Karlsruhe, Köln, Ulm  
1984: Oberwolfach, Nijmegen, Tilburg, Rotterdam, Pavia, Bergamo, Genova, Osnabrück, Amsterdam, Nijmegen, Maastricht, Graz, Pavia  
1985: Nijmegen, Baltimore, Boston, Montreal, IOWA, Chicago, München, Groningen, Rotterdam  
1986: New Delhi, Noordwijkerhout, Florence, Blacksburg, Darmstadt, Montreal, Nijmegen  
1987: Delhi, Tokyo, Sendai, Arlington, Trento, Amsterdam, Ohio  
1988: Tilburg, Eindhoven, Leiden, Columbus Ohio, Paderborn, Den Helder  
1989: Oberwolfach, Zeist, University Park, Columbus Ohio  
1990: Amsterdam, Tilburg, Twente, Bilbao, Santiago de Compostela, Vigo, Stony Brook, Columbus Ohio, New Delhi  
1991: Amersfoort, Florence, Trier, Amsterdam, Brussels, Stony Brook, Twente  
1992: Jerusalem, Haifa, Tilburg, Caen, Eindhoven, Leidschendam, Bilbao, Brussel  
1993: Jerusalem, Nijmegen, Stony Brook, Oberwolfach, Tilburg, Santiago de Compostela, Rotterdam  
1994: Amsterdam, Namur, Tilburg, Barcelona, Chicago, Bilbao, Den Haag  
1995: Genova (3x), Maastricht  
1996: Maastricht, Santiago de Compostela, Bielefeld  
1997: Bilbao, Madrid, Sevilla (2x), Nijmegen  
1998: Amersfoort, Barcelona, Santiago de Compostela  
1999: Alicante (2x), Elche (2x), Darmstadt, Tilburg, Utrecht  
2000: Nijmegen, Bucharest, Iasi, Elche, Vigo, Maastricht, Napels (2x), Bergamo, Castelanza, Genova, Siena, Valencia, Bilbao, Elche, Sevilla (4x)  
2001: Bilbao (2x), Tilburg, Brasov, Cluj-Napoca, Pavia (2x), Genova (2x), Nijmegen, St. Petersburg, Ischia, Stony Brook, Bielefeld, Elche, Barcelona (2x), Milano, Napoli  
2002: Nijmegen, Twente, Sevilla, Sendai, Tokyo (3x), Kyoto (2x), Tsukuba, Chiba  
2003: Milano, Urbino, Tilburg  
2004: Genova, Amsterdam, Elche, Tilburg, Warsaw, Avignon, Pisa  
2005: Tokyo (2x), Bergamo, Barcelona, Genoa, Milan, Maastricht, Twente, Groningen, Camerino

# Books by Stef Tijs

1. "Models in Cooperative Game Theory," Spieltheorie & Mathematische Methoden, Springer Verlag, 2008 (R. Branzei, D. Dimitrov and S. Tijs).
2. "Models in Cooperative Game Theory: Crisp, Fuzzy and Multi-choice Games," Lecture Notes in Economics and Mathematical Systems, Vol. 556, Springer Verlag, 2005 (R. Branzei, D. Dimitrov and S. Tijs).
3. "Introduction to Game Theory," Hindustan Book Agency, 2003.
4. "Semi-infinite and infinite matrix games and bimatrix games," PhD dissertation, Nijmegen, 1975.
5. "Foutenleer en Statistiek," Agon Elsevier, Amsterdam, 1973 (B. Berendts, H. Blaauw, B. Harmsen, J. Smit, S. Tijs).

## **Course books (Standaarddiktaten), University of Nijmegen**

1. Analyse IA voor chemici, biologen en psychologen, 142 pages, 1968.
2. Analyse IB voor chemici, biologen en psychologen, 125 pages, 1968.
3. Analyse II voor chemici, 66 pages 1969.
4. Lineaire algebra voor chemici, biologen en psychologen, 142 pages, 1969.
5. Speltheorie I, 145 pages, 1973.
6. Speltheorie II, 147 pages, 1974.
7. Vraagstukken ten behoeve van de praktika Analyse I en Lineaire Algebra voor Chemici, Biologen en Psychologen, 58 pages, 1974 (together with N. de Both, L. van de Broek, T. Gommers en W. Kremers).
8. Inleiding in de Speltheorie, 156 pages, 1975.
9. Coöperatieve spelen en markten, 87 pages, 1976.
10. Inleiding in de besliskunde, 120 pages, 1980.
11. Stochastische Spelen, 127 pages, 1982 (together with O.J. Vrieze).
12. Inleiding in de mathematische economie, 67 pages, 1981.
13. Theory of cooperative games and its applications, 1982.
14. Sociale keuze theorie, 1983.
15. Non-cooperative game theory, 1985.
16. Cooperative game theory, 1986.

## **Contribution Secondary School Books (Wageningse Methode)**

1. Matrices (36 pages).
2. Matrices en netwerken (40 pages).
3. Optimaliseringsproblemen (40 pages).



# List of papers of Stef Tijs accepted for publication in journals

1. "Cooperation in dividing the cake," TOP (R. Branzei, M. Dall'Aglio, S. Tijs).
2. "Airport interval games and their Shapley value," Operations Research and Decisions (S.Z. Alparslan Gök, R. Branzei, S. Tijs).
3. "Approximate stable solutions in infinite tree problems", Optimization, (J. Sanchez-Soriano, V. Fragnelli, N. Llorca. S. Tijs).
4. "On cooperative games related to market situations and auctions," International Game Theory Review, (R. Branzei, V. Fragnelli, A. Meca, S. Tijs).
5. "Cases in cooperation and cutting the cake," Procedural Approaches to Conflict Resolution (Ed. Matthias Raith), Springer Verlag (2009) (S. Tijs and R. Branzei).
6. "Share opportunity sets and cooperative games," International Game Theory Review (E. Caprari, F. Patrone, L. Pusillo, S. Tijs, A. Torre).
7. "Stackelberg vs Nash Assumption in IEA Models," Journal of Optimization and its Applications (L. Mallozzi, S. Tijs).
8. "Multi-choice clan games and their core," TOP (S.Z. Alparslan Gök, R. Branzei and S. Tijs).
9. "Cores and stable sets for interval-valued games," TOP (S.Z. Alparslan Gök, R. Branzei and S. Tijs).
10. "Convex interval games," Journal of Applied Mathematics and Decision Sciences (S.Z. Alparslan Gök, R. Branzei and S. Tijs).
11. "The interval Shapley value: an axiomatization," Central European Journal of Operations Research (S.Z. Alparslan Gök, R. Branzei and S. Tijs).

# List of publications of Stef Tijs

1. "Cooperation in dividing the cake," TOP, 17, 417-432, 2009 (R. Branzei, M. Dall'Aglio and S. Tijs).
2. "Airport interval games and their shapley value," Operations Research and Decisions (S.Z. Alparslan-Gök, R. Branzei and S. Tijs).
3. "Multi-choice clan games and their core," TOP, 17, 123-138, 2009 (S.Z. Alparslan-Gök, R. Branzei and S. Tijs).
4. "Convex multi-choice cooperative games: characterizations and monotonic allocation schemes," European Journal of Operations Research, 198, 571-575, 2009 (R. Branzei, S. Tijs and J. Zaruelo).
5. "Cooperation under interval uncertainty," Mathematical Methods of Operations Research, 69, 99-109, 2009 (S.Z. Alparslan-Gök, S. Miguel and S. Tijs).
6. "Cost allocation protocols for supply contract design in network situations," Mathematical Methods of Operations Research 69, 181 - 202, 2009 (S. Moretti, S. Tijs, R. Branzei, H. Norde).
7. "Pure equilibrium strategies for stochastic games via potential functions," Annals of the International Society of Dynamic Games, vol. 10, Birkhäuser, 433-444, 2009 (J.A.M. Potters, T.E.S. Raghavan and S. Tijs).
8. "Multi-choice clan games and their core," TOP, 17, 123 - 138, 2009 (R. Branzei, N.

Llorca, J. Sánchez-Soriano, S. Tijs).

9. "Coordinating choice in partial cooperative equilibrium," *Economics Bulletin*, 29, 1467 - 1473, 2009 (L.Mallozzi and S. Tijs).
10. "The aggregate-monotonic core," *Games and Economic Behavior*, 66, 742-748, 2009 (P.Calleja, C. Rafels and S. Tijs).
11. "Michael Maschler in the Netherlands," *Games and Economic Behavior*, 64, 372, 2008 (Jos Potters and Stef Tijs).
12. "Comments on: Transversality of the Shapley value," *TOP* 16, 58-59, 2008. (S. Tijs).
13. "Convex games versus clan games," *International Game Theory Review* 10, 363-372, 2008,(R. Branzei, D. Dimitrov, S. Tijs).
14. "Conflict and Cooperation in symmetric potential games," *Int. Game Theory Review* 10, 245-256, 2008, (L. Mallozzi, S. Tijs).
15. "A flow approach to bankruptcy problems," *AUCO Czech Economic Review* 2, 146-153, 2008, (R. Branzei, G. Ferrari, V. Fragnelli, S. Tijs).
16. "Some characterizations of convex interval games," *AUCO Czech Economic Review* 2, 219-226, 2008, (R. Branzei, S. Tijs, S.Z. Alparslan Gök).
17. "Axiomatic approach to approximate solutions in vector optimization," *Decisions in Economics and Finance*, 31, 95-115,2008, (E. Miglierina, E. Molho, F. Patrone, S. Tijs).
18. "Approximate Equilibria for Bayesian games," *Journal of Mathematical Analysis and Application* 343, 1098-1102, 2008 (L. Mallozzi, L. Pusillo, S. Tijs).
19. "Take-and-guess games," *International Journal of Game Theory*, 37, 115 - 137, 2008, (M. Dreef and S. Tijs).
20. "Partial cooperation and Non-Signatories Multiple Decisions," *AUCO Czech Economic Review* 2, 21-27, 2008 (L. Mallozzi, S. Tijs).
21. "Type monotonic allocation schemes for a class of market games," *TOP* 15, 78-88, 2007 (R. Branzei, T. Solymosi and S. Tijs).
22. "Balancedness of the class of infinite permutation games and related classes of games," *International Game Theory Review* 9, 425-435, 2007 (V. Fragnelli, N. Llorca, S. Tijs).
23. "Multicriteria games and potentials," *TOP* 15, 138-145, 2007 (F. Patrone, L. Pusillo, S. Tijs).
24. "Obligation rules for minimum cost spanning tree situations and their monotonicity properties", *European Journal of Operational Research* 175, 121-134, 2006 (S. Tijs, R. Branzei, S. Moretti, H. Norde).
25. "A note on isomorphism and strategic equivalence of cooperative games," *TOP* 14, 333-342, 2006 (C. Chang and S. Tijs).
26. "Equilibria for pooling situations," *International Journal of Game Theory* 34, 123-130, 2006 (G. Koshevoy, S. Tijs, S. Miquel).
27. "A simple algorithm for the nucleolus of airport profit games," *International Journal of Game Theory* 34, 259-272, 2006 (R. Branzei, E. Inarra, S. Tijs and J. Zarzuelo).
28. "Truth telling equilibria for Bayesian games arising from sequencing situations," *Journal of the Operations Research Society of Japan* 49, 19-32, 2006 (A. Veltman, S. Tijs and R. Branzei).
29. "The equal split off set for cooperative games", in: *Proceedings of Game Theory and Mathematical Economics. Conference held in Warsaw, 6-10 September, 2004. Banach Center Publications* 71, 39-46, 2006 (R. Branzei, D. Dimitrov and S. Tijs).

30. "Generalized cores and stable sets for fuzzy games," *International Game Theory Review*, 8, 95-109, 2006 (S. Muto, S. Ishihara, E. Fukuda, S. Tijs and R. Branzei).
31. "Compensations in information collecting situations," *Journal of Public Economic Theory*, 8, 181-191, 2006 (S. Tijs, J. Timmer and R. Branzei).
32. "The Bird core for minimum cost spanning tree games revisited: monotonicity and additivity aspects," *Lecture Notes in Economics and Mathematical Systems*, Vol. 563, Springer-Verlag, Berlin Heidelberg, pp. 305-322, 2006 (S. Tijs, S. Moretti, R. Branzei, H. Norde).
33. "Compromising in partition function form games and cooperation in perfect extensive form games," *International Game Theory Review*, 8, 329-338, 2006 (E. Fukuda, S. Tijs, R. Branzei and S. Muto).
34. "Drop out monotonic rules for sequencing situations," *Mathematical Methods of Operations Research* 61, 501-504, 2005 (C. Fernández, P. Borm, R. Hendrickx and S. Tijs).
35. "Cooperation by asymmetric agents in a joint project," *Journal of Public Economic Theory*, 7, 623-640, 2005 (R. Branzei, E. Inarra, S. Tijs and J. Zarzuelo).
36. "Strongly essential coalitions and the nucleolus of peer group games," *International Journal of Game Theory*, 33, 447-460, 2005 (R. Branzei, T. Solymosi and S. Tijs).
37. "Games and Geometry." In: *Proceedings of the 4th Twente Workshop on Cooperative Game Theory joint with 3rd Dutch-Russian Symposium*, 28-30 June, 2005, Enschede, The Netherlands (Eds. T.S.H. Driessen, J.B. Timmer, A.B. Khmelnitskaia, pp. 141-149 (S. Tijs and R. Branzei).
38. "Directed networks, allocation properties and hierarchy formation," *Mathematical Social Sciences*, 49, 55-80, 2005 (R. Gilles, H. Norde, M.Slikker and S. Tijs).
39. "Cooperative fuzzy games arising from economic situations," *Fuzzy Economic Review*, 10, 3-15, 2005 (E. Fukuda, S. Ishihara, S. Muto, S. Tijs and R. Branzei).
40. "Stable profit sharing in cooperative investments," *OR Spectrum*, 27, 85-93, 2005 (A. De Waegenare, J. Suijs and S. Tijs).
41. "Convexity in stochastic cooperative situations," *International Game Theory Review*, 7, 25-42, 2005 (J. Timmer, P. Borm, S. Tijs).
42. "Benefit sharing in holding situations," *European Journal of Operational Research* 162, 251-269, 2005 (S. Tijs, A. Meca and M. A. López).
43. "Computing the nucleolus of cyclic permutation games," *European Journal of Operational Research*, 162, 270-280, 2005 (T. Solymosi, T.E.S Raghavan and S. Tijs).
44. "The core and related solution concepts for infinite assignment games," *TOP*, 12, 331-350, 2004 (N. Llorca, J. Sánchez-Soriano, S. Tijs and J. Timmer).
45. "Various characterizations of convex fuzzy games," *TOP* 12, 399-408, 2004 (S. Tijs and R. Branzei).
46. "The  $P$ -value for cost sharing in minimum cost spanning tree situations," *Theory and Decision* 56, 47-61, 2004 (R. Branzei, S. Moretti, H. Norde and S. Tijs).
47. "Cost sharing in a joint project," *Game Practice and the Environment*, Eds. C. Carraro and V. Fragnelli, Edward Elgar Cheltenham (UK), 113-124, 2004 (S.H. Tijs and R. Branzei).
48. "Egalitarianism in convex fuzzy games," *Mathematical Social Sciences* 47, 313-325, 2004 (R. Branzei, D. Dimitrov and S. Tijs).
49. "How to cope with division problems under interval uncertainty of claims," *International Journal of Uncertainty, Fuzziness and Knowledge-based Systems* 12,

- 191-200, 2004 (R. Branzei, D. Dimitrov, S. Pickl and S. Tijs).
50. "Fuzzy clan games and bi-monotonic allocation rules," *Fuzzy Sets and Systems* 146, 271-284, 2004 (S. Tijs, R. Branzei, S. Muto, S. Ishihara and E. Fukuda).
  51. "On cores and stable sets for fuzzy games," *Fuzzy Sets and Systems* 146, 285-296, 2004 (S. Tijs, R. Branzei, S. Ishihara and S. Muto).
  52. "Hypercubes and compromise values for cooperative fuzzy games," *European Journal of Operational Research* 155, 733-740, 2004 (R. Branzei, D. Dimitrov and S. Tijs).
  53. "Minimum cost spanning tree games and population monotonic allocation schemes," *European Journal of Operational Research* 154, 84-97, 2004 (H. Norde, S. Moretti and S. Tijs).
  54. "Weighted allocation rules for standard fixed tree games," *Mathematical Methods of Operations Research* 59, 249-270, 2004 (E. Bjorndal, M. Koster and S. Tijs).
  55. "Neighbor games and the leximax solution," *Mathematical Methods of Operations Research* 58, 191-208, 2003 (F. Klijn, D. Vermeulen, H. Hamers, T. Solymosi, S. Tijs and J.P. Villar).
  56. "On three Shapley-like solutions for cooperative games with random payoffs," *International Journal of Game Theory* 32, 595-613, 2003 (J. Timmer, P. Borm and S. Tijs).
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