Capitoli in Monografie

1. V. Bilò, I. Caragiannis, A. Fanelli, M. Flammini, C. Kaklamanis, G. Monaco, L. Moscardelli: "Game-Theoretic Approaches to Optimization Problems in Communication Networks". In *Graphs and Algorithms in Communication Networks*, Springer-Verlag, 2009.

Riviste Internazionali

1. V. Bilò, M. Flammini, R. Giovannelli: "Experimental Analysis of Online Algorithms for the Bicriteria Scheduling Problem", *Journal of Parallel and Distributed Computing*, 64(9):1086-1100, 2004.

2. V. Bilò, M. Flammini, L. Moscardelli: "Pareto Approximations for the Bicriteria Scheduling Problem", *Journal of Parallel and Distributed Computing*, 66(3):393-402, 2006.

3. V. Bilò, M. Flammini, G. Melideo, L. Moscardelli, A. Navarra: "Sharing the Cost of Multicast Transmissions in Wireless Networks", *Theoretical Computer Science*, 369(1-3):269-284, 2006.

4. V. Bilò, M. Flammini, G. Melideo, L. Moscardelli: "On Nash Equilibria for Multicast Transmissions in Ad-Hoc Wireless Networks", *Wireless Networks*, 12(2):147-157, 2008.

5. V. Bilò, A. Fanelli, M. Flammini, L. Moscardelli: "When Ignorance Helps: Graphical Multicast Cost Sharing Games", *Theoretical Computer Science*, 411(3):660-671, 2010.

6. V. Bilò, A. Fanelli, M. Flammini, G. Melideo, L. Moscardelli: "Designing Fast Converging Cost Sharing Methods for Multicast Transmissions", *Theory of Computing Systems*, 47(2):507-530, 2010.

7. V. Bilò: "The Price of Nash Equilibria in Multicast Transmissions Games", *Journal of Interconnection Networks*, 11(3-4):97-120, 2010.

8. V. Bilò, M. Flammini, G. Monaco, L. Moscardelli: "On the performances of Nash Equilibria in Isolation Games", *Journal of Combinatorial Optimization*, 22(3):378-391, 2011. Special Issue: Selected Papers from the 15th International Computing and Combinatorics Conference.

9. V. Bilò, A. Fanelli, M. Flammini, L. Moscardelli: "Graphical Congestion Games", *Algorithmica*, 61(2):274-297, 2011.

10. V. Bilò, A. Fanelli, M. Flammini, L. Moscardelli: "Performance of One-Round Walks in Linear Congestion Games", *Theory of Computing Systems*, 49(1):24-45, 2011. Special Issue: Selected Papers from the 2nd International Symposium on Algorithmic Game Theory.

11. V. Bilò, M. Flammini: "Extending the Notion of Rationality of Selfish Agents: Second Order Nash Equilibria", *Theoretical Computer Science*, 412(22):2296-2311, 2011.

12. V. Bilò, R. Bove: "Bounds on the Price of Stability of Undirected Network Design with Three Players", *Journal of Interconnection Networks*, 12(1-2):1-17, 2011.

13. V. Bilò, I. Caragiannis, A. Fanelli, G. Monaco: "Improved Lower Bounds on the Price of Stability of Undirected Network Design Games", *Theory of Computing Systems*, 52(4):668-686, 2013.

14. V. Bilò, A. Celi, M. Flammini, V. Gallotti: "Social Context Congestion Games", *Theoretical Computer Science*, 514:21-35, 2013. Special Issue: Graph Algorithms and Applications: in Honor of Professor Giorgio Ausiello.

15. V. Bilò, M. Mavronicolas: "The Complexity of Rational and Irrational Nash Equilibria", *Theory of Computing Systems,* 54(3):491-527, 2014. Special Issue: Selected Papers from the 4th International Symposium on Algorithmic Game Theory.

16. D. Bilò, V. Bilò: "New Bounds for the Balloon Popping Problem", *Journal of Combinatorial Optimization,* 29(1):182-196, 2015. Special Issue: Selected Papers from the 19th Annual International Computing and Combinatorics Conference.

17. A. Angelucci, V. Bilò, M. Flammini, L. Moscardelli: "On the Sequential Price of Anarchy of Isolation Games", *Journal of Combinatorial Optimization,* 29(1):165-181, 2015. Special Issue: Selected Papers from the 19th Annual International Computing and Combinatorics Conference.

18. V. Bilò, M. Flammini, G. Monaco, L. Moscardelli: "Some Anomalies of Farsighted Strategic Behavior", *Theory of Computing Systems,* 56(1):156-180, 2015. Special Issue: Selected Papers from the 10th Workshop on Approximation and Online Algorithms.

19. V. Bilò, M. Flammini, L. Moscardelli: "The Price of Stability for Undirected Broadcast Network Design with Fair Cost Allocation is Constant", *Games and Economic Behavior,* to appear.

20. V. Bilò, A. Fanelli, L. Moscardelli: "On Lookahead Equilibria in Congestion Games", *Mathematical Structures in Computer Science*, to appear.

Conferenze Internazionali soggette a processo di revisione

1. V. Bilò, A. Di Pasquale, F. Fioravanti, M. Flammini, L. Forlizzi, F. Lo Presti, G. Melideo, E. Nardelli, A. Navarra, G. Proietti: "Quality of Service in Wireless Networks", *Proc. of the IEEE IPDPS Workshop on Wireless, Mobile and Ad Hoc Networks (WMAN)*, IEEE Computer Society, 2003.

2. V. Bilò, M. Flammini, R. Giovannelli: "Experimental Analysis of Online Algorithms for the Bicriteria Scheduling Problem", *Proc. of the 2nd International Workshop on Experimental and Efficient Algorithms (WEA)*, Lecture Notes in Computer Science 2647, Springer, pp. 33-46, 2003.

3. V. Bilò, M. Flammini: "On the IP Routing Tables Minimization with Addresses Reassignments", *Proc. of the 18th International Parallel and Distributed Processing Symposium (IPDPS)*, IEEE Computer Society, 2004.

4. V. Bilò, M. Flammini, L. Moscardelli: "Pareto Approximations for the Bicriteria Scheduling Problem", *Proc. of the 18th International Parallel and Distributed Processing Symposium (IPDPS)*, IEEE Computer Society, 2004.

5. V. Bilò, L. Moscardelli: "The Price of Anarchy in All-Optical Networks", *Proc. of the 11th Colloquium on Structural Information and Communication Complexity (SIROCCO)*, Lecture Notes in Computer Science 3104, Springer, pp. 13-22, 2004.

6. V. Bilò, C. Di Francescomarino, M. Flammini, G. Melideo: "Sharing the Cost of Multicast Transmissions in Wireless Networks", *Proc. of the 16th Symposium on Parallelism in Algorithms and Architectures (SPAA)*, ACM Press, pp. 180-187, 2004.

7. V. Bilò, G. Melideo: "An Improved Approximation Algorithm for the Minimum Energy Consumption Broadcast Subgraph", *Proc. of the EURO-PAR 2004 Parallel Processing*, Lecture Notes in Computer Science 3149, Springer, pp. 949-956, 2004.

8. V. Bilò, V. Goyal, R. Ravi, M. Singh: "On the Crossing Spanning Tree Problem", *Proc. of the 7th International Workshop on Approximation Algorithms for Combinatorial Problems (APPROX)*, Lecture Notes in Computer Science 3122, Springer, pp. 51-60, 2004.

9. V. Bilò, M. Flammini, G. Melideo, L. Moscardelli: "On Nash Equilibria for Multicast Transmissions in Ad-Hoc Wireless Networks", *Proc. of the 15th Annual International Symposium on Algorithms and Computation (ISAAC)*, Lecture Notes in Computer Science 3341, Springer, pp. 172-183, 2004.

10. V. Bilò, M. Flammini, L. Moscardelli: "On Nash Equilibria in Non-Cooperative All-Optical Networks", *Proc. of the 37th Symposium on Theoretical Aspects of Computer Science (STACS)*, Lecture Notes in Computer Science 3404, Springer, pp. 448-459, 2005.

11. V. Bilò, I. Caragiannis, C. Kaklamanis, P. Kanellopoulos: "Geometric clustering to minimize the sum of cluster sizes", *Proc. of the 13th Annual European Symposium on Algorithms (ESA)*, Lecture Notes in Computer Science 3669, Springer, pp. 460-471, 2005.

12. V. Bilò: "On the Packing of Selfish Items", *Proc. of the 20th IEEE International Parallel and Distributed Processing Symposium (IPDPS)*, IEEE Computer Society, 2006.

13. V. Bilò: "On Satisfiability Games and the Power of Congestion Games", *Proc. of the 3rd International Conference on Algorithmic Aspects in Information and Management (AAIM)*, Lecture Notes in Computer Science 4508, Springer, pp. 231-240, 2007.

14. V. Bilò, M. Flammini: "Extending the Notion of Rationality of Selfish Agents: Second Order Nash Equilibria", *Proc. of the 32nd International Symposium on Mathematical Foundations of Computer Science (MFCS)*, Lecture Notes in Computer Science 4708, Springer, pp. 621-632, 2007.

15. V. Bilò: "The Price of Nash Equilibria in Multicast Transmissions Games", *Proc. of the 18th International Symposium on Algorithms and Computation (ISAAC)*, Lecture Notes in Computer Science 4835, Springer, pp. 390-401, 2007.

16. V. Bilò, A. Fanelli, M. Flammini, L. Moscardelli: "When Ignorance Helps: Graphical Multicast Cost Sharing Games", *Proc. of the 33rd International Symposium on Mathematical Foundations of Computer Science (MFCS)*, Lecture Notes in Computer Science 5162, Springer, pp. 108-119, 2008.

17. V. Bilò, A. Fanelli, M. Flammini, L. Moscardelli: "Graphical Congestion Games with Linear Latencies", *Proc. of the 20th ACM Symposium on Parallelism on Algorithms and Architectures (SPAA)*, ACM press, pp. 194-196, 2008.

18. V. Bilò, A. Fanelli, M. Flammini, L. Moscardelli: "Graphical Congestion Games", *Proc. of the 4th International Workshop On Internet And Network Economics (WINE)*, Lecture Notes in Computer Science 5385, Springer, pp. 70-81, 2008.

19. V. Bilò, M. Flammini, G. Monaco, L. Moscardelli: "On the Performances of Nash Equilibria in Isolation Games", *Proc. of the 15th Annual International Conference on Computing and Combinatorics (COCOON)*, Lecture Notes in Computer Science 5609, Springer, pp. 17-26, 2009.

20. V. Bilò, A. Fanelli, M. Flammini, L. Moscardelli: "Performances of One-Round Walks in Linear Congestion Games", *Proc. of the 2nd International Symposium on Algorithmic Game Theory (SAGT)*, Lecture Notes in Computer Science 5814, Springer, pp. 311-322, 2009.

21. V. Bilò, A. Fanelli: "Computing Exact and Approximate Nash Equilibria in 2-Player Games", *Proc. of the 6th International Conference on Algorithmic Aspects in Information and Management (AAIM)*, Lecture Notes in Computer Science 6124, Springer, pp. 58-69, 2010.

22. V. Bilò, I. Caragiannis, A. Fanelli, G. Monaco: "Improved Lower Bounds on the Price of Stability of Undirected Network Design Games", *Proc. of the 3rd International Symposium on Algorithmic Game Theory (SAGT)*, Lecture Notes in Computer Science 6386, Springer, pp. 90-101, 2010.

23. V. Bilò, A. Celi, M. Flammini, V. Gallotti: "Social Context Congestion Games", *Proc. of the 18th International Colloquium on Structural Information and Communication Complexity (SIROCCO)*, Lecture Notes in Computer Science 6796, Springer, pp. 282-293, 2011.

24. V. Bilò, M. Mavronicolas: "The Complexity of Rational and Irrational Nash Equilibria", *Proc. of the 4th International Symposium on Algorithmic Game Theory (SAGT)*, Lecture Notes in Computer Science 6982, Springer, pp. 200-211, 2011.

25. V. Bilò, M. Flammini, V. Gallotti: "On Bidimensional Congestion Games", *Proc. of the 19th International Colloquium on Structural Information and Communication Complexity (SIROCCO)*, Lecture Notes in Computer Science 7355, Springer, pp. 147-158, 2012.

26. V. Bilò, M. Mavronicolas: "The Complexity of Decision Problems about Nash Equilibria in Win-Lose Games", *Proc. of the 5th International Symposium on Algorithmic Game Theory (SAGT)*, Lecture Notes in Computer Science 7615, Springer, pp. 37-48, 2012.

27. V. Bilò: "A Unifying Tool for Bounding the Quality of Non-Cooperative Solutions in Weighted Congestion Games", *Proc. of the 10th Workshop on Approximation and Online Algorithms (WAOA)*, Lecture Notes in Computer Science 7846, Springer, pp. 215-228, 2012.

28. V. Bilò, M. Flammini, G. Monaco, L. Moscardelli: "Some Anomalies of Farsighted Strategic Behavior", *Proc. of the 10th Workshop on Approximation and Online Algorithms (WAOA)*, Lecture Notes in Computer Science 7846, Springer, pp. 229-241, 2012.

29. D. Bilò, V. Bilò: "New Bounds for the Balloon Popping Problem", *Proc. of the 19th Annual International Computing and Combinatorics Conference (COCOON)*, Lecture Notes in Computer Science 7936, Springer, pp. 5-16, 2013.

30. A. Angelucci, V. Bilò, M. Flammini, L. Moscardelli: "On the Sequential Price of Anarchy of Isolation Games", *Proc. of the 19th Annual International Computing and Combinatorics Conference (COCOON)*, Lecture Notes in Computer Science 7936, Springer, pp. 17-28, 2013.

31. V. Bilò, M. Flammini, L. Moscardelli: "The Price of Stability for Undirected Broadcast Network Design with Fair Cost Allocation is Constant", *Proc. of the 54th Annual IEEE Symposium on Foundations of Computer Science (FOCS)*, IEEE Computer Society, pp. 638-647, 2013.

32. V. Bilò, A. Fanelli, L. Moscardelli: "On Lookahead Equilibria in Linear Congestion Games", *Proc. of the 9th International Workshop On Internet And Network Economics (WINE),* Lecture Notes in Computer Science 8289, Springer, pp. 54-67, 2013.

33. V. Bilò, M. Paladini: "On the Performance of Mildly Greedy Players in Cut Games", *Proc. of the 20th Annual International Computing and Combinatorics Conference (COCOON)*, Lecture Notes in Computer Science 8591, Springer, pp. 513-524, 2014.

34. V. Bilò: "On Linear Congestion Games with Altruistic Social Context", *Proc. of the 20th Annual International Computing and Combinatorics Conference (COCOON)*, Lecture Notes in Computer Science 8591, Springer, pp. 547-558, 2014.

35. V. Bilò, M. Flammini, G. Monaco: "Approximation the Revenue Maximization Problem with Sharp Demands", *Proc. of the 14th Scandinavian Symposium and Workshops on Algorithmic Theory (SWAT),* Lecture Notes in Computer Science 8503, Springer, pp. 74-85, 2014.

36. V. Bilò, A. Fanelli, M. Flammini, G. Monaco, L. Moscardelli: "The Price of Envy-Freeness in Machine Scheduling", *Proc. of the 39th International Symposium on Mathematical Foundations of Computer Science (MFCS)*, Lecture Notes in Computer Science 8653, Springer, pp. 106-117, 2014.

37. C. Vinci, V. Bilò: "On the Stackelberg Fuel Pricing Game", *Proc. of the 15th Italian Conference on Theoretical Computer Science (ICTCS)*, CEUR Workshop Proceedings, pp. 213-224, 2014.

38. V. Bilò, A. Fanelli, M. Flammini, G. Monaco, L. Moscardelli: "Nash Stability in Fractional Hedonic Games", *Proc. of the 10th Conference on Web and Internet Economics (WINE)*, Lecture Notes in Computer Science 8877, Springer, pp. 486-491, 2014.

39. V. Bilò, A. Fanelli, M. Flammini, G. Monaco, L. Moscardelli: "On the Price of Stability of Fractional Hedonic Games", *Proc. of the International Conference on Autonomous Agents & Multiagent Systems (AAMAS)*, to appear.

Surveys e Letters

1. V. Bilò. One-round Walks in Linear Congestion Games. *Bulletin of the EATCS,* 101: 45-63, 2010.

2. V. Bilò, M. Flammini, L. Moscardelli. The Price of Stability of Fair Undirected Broadcast Games is Constant. *SIGecom Exchanges,* 12(2): 42-45, 2013.

Conferenze Internazionali su invito senza processo di revisione

1. V. Bilò, M. Flammini: "On Multiprocessor Scheduling under Multiple Objectives", *Proc. of the International Conference on Operations Research (OR)*, 2002.

2. V. Bilò, M. Flammini: "Time vs Memory Tradeoffs for Multiprocessor Scheduling", *Proc. of the 33rd Annual Conference of the Italian Operations Research Society (AIRO)*, 2002.

Tesi di dottorato

V. Bilò, "Pricing and Equilibria in Non-Cooperative Networks", 2005.