

Eilon SOLAN, Ph.D.

LIST OF PUBLICATIONS

ARTICLES

1. E. Solan. Discounted Stochastic Games. **Mathematics of Operations Research**. 23 (1998), 1010–1021.
2. E. Solan. Three-Player Absorbing Games. **Mathematics of Operations Research**. 24 (1999), 669–698.
3. E. Solan. Absorbing Team Games. **Games and Economic Behavior**. 31 (2000), 245–261.
4. E. Solan. Stochastic Games with Two Non-Absorbing States. **Israel Journal of Mathematics**. 119 (2000), 29–54.
5. D. Rosenberg, E. Solan, and N. Vieille. Stopping Games with Randomized Strategies. **Probability Theory and Related Fields**. 119 (2001), 433–451.
6. E. Solan and N. Vieille. Quitting Games. **Mathematics of Operations Research**. 26 (2001), 265–285.
7. E. Solan and R. Vohra. Correlated Equilibrium in Quitting Games. **Mathematics of Operations Research**. 26 (2001), 601–610.
8. E. Solan. Characterization of Correlated Equilibria in Stochastic Games. **International Journal of Game Theory**. 30 (2001), 259–277.
9. E. Solan. The Dynamics of the Nash Correspondence and n -Player Stochastic Games. **International Game Theory Review**. 3 (2001), 291–300.
10. E. Solan and N. Vieille. Correlated Equilibrium in Stochastic Games. **Games and Economic Behavior**. 38 (2002), 362–399.
11. D. Rosenberg, E. Solan, and N. Vieille. Blackwell Optimality in Markov Decision Processes with Partial Observation. **The Annals of Statistics**. 30 (2002), 1178–1193.
12. E. Solan and R. Vohra. Correlated Equilibrium Payoffs and Public Signalling in Absorbing Games. **International Journal of Game Theory**. 31 (2002), 91–121.
13. E. Solan and N. Vieille. Uniform Value in Recursive Games. **The Annals of Applied Probability**. 12 (2002), 1185–1201.

14. E. Solan and N. Vieille. Quitting Games - an Example. **International Journal of Game Theory**. 31 (2002), 365–381.
15. E. Solan and N. Vieille. Perturbed Markov Chains. **Journal of Applied Probability**. 40 (2003), 107–122.
16. E. Shmaya, E. Solan, and N. Vieille. An Application of Ramsey Theorem to Stopping Games. **Games and Economic Behavior**. 42 (2003), 300–306.
17. E. Kalai and E. Solan. Randomization and Simplification in Dynamic Decision Making. **Journal of Economic Theory**. 111 (2003), 251–264.
18. E. Solan and N. Vieille. Deterministic Multi-Player Dynkin Games. **Journal of Mathematical Economics**. 39 (2003), 911–929.
19. E. Solan. Continuity of the Value in Competitive Markov Decision Processes. **Journal of Theoretical Probability**. 16 (2003), 831–845.
20. E. Solan and L. Yariv. Games with Espionage. **Games and Economic Behavior**. 47 (2004), 172–199.
21. D. Rosenberg, E. Solan, and N. Vieille. Stochastic Games with a Single Controller and Incomplete Information. **SIAM Journal on Control and Optimization**. 43 (2004), 86–110.
22. E. Shmaya and E. Solan. Zero-Sum Dynamic Games and a Stochastic Variation of Ramsey Theorem. **Stochastic Processes and their Applications**. 112 (2004), 319–329.
23. E. Shmaya and E. Solan. Two Player Non Zero-Sum Stopping Games in Discrete Time. **The Annals of Probability**. 32 (2004), 2733–2764.
24. D. Rosenberg, E. Solan, and N. Vieille. Approximating a Sequence of Observations by a Simple Process. **The Annals of Statistics**. 32 (2004), 2742–2775.
25. R. Laraki and E. Solan. Stopping Games in Continuous Time. **SIAM Journal of Control and Optimization**. 43 (2004), 1913–1922.
26. R. Laraki, E. Solan, and N. Vieille. Continuous-Time Games of Timing. **Journal of Economic Theory**. 120 (2005), 206–238.
27. E. Solan. Subgame-Perfection in Quitting Games with Perfect Information and Differential Equations. **Mathematics of Operations Research**. 30 (2005), 51–72.
28. E. Solan and N. Vieille. Equilibrium Uniqueness with Perfect Completeness. **Economic Theory**. 28 (2006), 721–726.
29. E. Lehrer and E. Solan. Excludability with Bounded Computational Capacity Strategies. **Mathematics of Operations Research**. 31 (2006), 637–648.

30. E. Reshef and E. Solan. The Effects of Anti-Spam Methods on Spam Mail. **CEAS-2006**. July 2006. Mountain View, California.
31. D. Rosenberg, E. Solan, and N. Vieille. Social Learning in One-Arm Bandit Problems. **Econometrica**. 75 (2007), 1591–1611.
32. D. Rosenberg, E. Solan, and N. Vieille. Protocols with no Acknowledgement. **Operations Research**. 57 (2009), 905–915.
33. D. Rosenberg, E. Solan, and N. Vieille. Informational Externalities and Emergence of Consensus. **Games and Economic Behavior**. 66 (2009), 979–994.
34. E. Lehrer and E. Solan. Approachability with Bounded Memory. **Games and Economic Behavior**. 66 (2009), 995–1004.
35. E. Altman and E. Solan. Constrained Games: The Impact of the Attitude to Adversary’s Constraints. **IEEE Transactions on Automatic Control**. 54 (2009), 2435–2440. PDF.
36. J. Flesch, J. Kuipers, A. Mashiach-Yakovi, G. Schoenmakers, E. Solan, and K. Vrieze. Perfect-Information Games with Lower-Semi-Continuous Payoffs. **Mathematics of Operations Research**. 35 (2010), 742–755.
37. E. Solan and N. Vieille. Computing Uniform Optimal Strategies in Two-Player Stochastic Games. **Economic Theory**. 42 (2010), 237–253.
38. J. Hörner, D. Rosenberg, E. Solan, and N. Vieille. On a Markov Game with One-Sided Information. **Operations Research**. 58 (2010), 1107–1115.
39. D. Rosenberg, E. Solan, and N. Vieille. On the Optimal Amount of Experimentation in Sequential Decision Problems. **Statistics and Probability Letters**, 80 (2010), 381–385.
40. S. Alpern, S. Gal, and E. Solan. A Sequential Selection Game with Vetoes. **Games and Economic Behavior**, 68 (2010), 1–14.
41. E. Lehrer, E. Solan, and Y. Viossat. Equilibrium Payoffs of Finite Games. **Journal of Mathematical Economics**, 47 (2011), 48–53.
42. Y. Heller, E. Solan, and T. Tomala. Communication, Correlation and Cheap-Talk in Games with Public Information. **Games and Economic Behavior**, 74 (2012), 222–234.
43. G. Fibich, A. Gavious, and E. Solan. An Averaging Principle for Second-Order Approximation of Heterogeneous Models with Homogeneous Models. **Proceedings of the National Academy of Sciences of the USA**, 109:48 (2012), 19545–19550.
44. J. Renault, E. Solan, and N. Vieille. Repeated Sender-Receiver Games. **Journal of Economic Theory**, 148 (2013), 502–534.

45. A. Cohen and E. Solan. Bandit Problems with Lévy Processes. **Mathematics of Operations Research**, 38 (2013), 92–107.
46. D. Rosenberg, E. Solan, and N. Vieille. Strategic Information Exchange. **Games and Economic Behavior**, 82 (2013), 444–467.
47. R. Laraki and E. Solan. Equilibrium in Two-Player Non-Zero-Sum Dynkin Games in Continuous Time. **Stochastics**, 85 (2013), 997–1014.
48. G. Oren and E. Solan. Robust Optimal Strategies in Markov Decision Problems. **Operations Research Letters**, 42 (2014), 109–112.
49. B. Shani and E. Solan. Strong Approachability. **Journal of Dynamic Games**, Special Issue in honor of Sylvain Sorin, 1 (2014), 507–535.
50. J. Flesch, J. Kuipers, A. Mashiach-Yakovi, G. Schoenmakers, E. Shmaya, E. Solan, and K. Vrieze. Equilibrium Refinements in Perfect Information Games with Infinite Horizon. **International Journal of Game Theory**, 43 (2014), 945–951.
51. C. Maor and E. Solan. Cooperation under Incomplete Information on the Discount Factors. **International Journal of Game Theory**. 44 (2015), 321–346.
52. D. Bauso, E. Lehrer, E. Solan, and X. Venel. Attainability in Repeated Games with Vector Payoffs. **Mathematics of Operations Research**. 40 (2015), 739–755.
53. E. Solan and N. Vieille. Stochastic Games: A Perspective. **Proceedings of the National Academy of Sciences of the USA**. 112:45 (2015), 13743–13746.
54. E. Lehrer and E. Solan. A General Internal Regret Free Strategy. **Dynamic Games and Application**. 6:1 (2016), 112–138.
55. P. Hernandez and E. Solan. Bounded-Rationality Equilibrium. **Journal of Economic Theory**. 163 (2016), 342–364.
56. E. Lehrer, E. Solan, and O.N. Solan. The Value Functions of Markov Decision Processes. **Operations Research Letters**. 44 (2016), 587–591.
57. J. Flesch, A. Predtetchinski, and E. Solan. Sporadic Overtaking Optimality in Markov Decision Problems. **Dynamic Games and their Applications**. 7:2 (2017), 212–228.
58. J. Renault, E. Solan, and N. Vieille. Optimal Dynamic Information Provision. **Games and Economic Behavior**. 104 (2017), 329–349.
59. E. Lehrer and E. Solan. High Frequency Repeated Games with Costly Monitoring. **Theoretical Economics**. 13 (2018), 87–114.
60. L. Buhovsky, E. Solan, and O.N. Solan. Monovex Sets. **Studia Mathematica**, 242:2 (2018), 165–178.

61. E. Solan. Acceptable Strategy Profiles in Stochastic Games. **Games and Economic Behavior**, Special Issue in honor of Lloyd Shapley, 108 (2018), 523–540.
62. E. Solan. The Modified Stochastic Game. **International Journal of Game Theory**, 47:4 (2018), 1287–1327.
63. E. Solan, O.N. Solan, and R. Solan. Jointly Controlled Lotteries with Biased Coins. **Games and Economic Behavior**, 119 (2020), 383–391.
64. G. Ashkenazi-Golan, E. Solan, and A. Zseleva. Characterization of the Value Functions of Polynomial Games. **Operations Research Letters**, 48:1 (2020), 93–95.
65. E. Solan and O.N. Solan. Logit Equilibrium as an Approximation of Nash Equilibrium. **Operations Research Letters**, 48 (2020), 262–265.
66. G. Ashkenazi-Golan, J. Flesch, A. Predtetchinski, and E. Solan. Reachability and Safety Objectives in Markov Decision Processes on Long but Finite Horizons. **Journal of Optimization Theory and Applications**, 185:3 (2020), 945–965.
67. E. Solan and O.N. Solan. Quitting Games and Linear Complementarity Problems. **Mathematics of Operations Research**, 45:2 (2020), 434–454.
68. G. Ashkenazi-Golan, C. Rainer, and E. Solan. Solving Two-State Markov Games with Incomplete Information on One Side. **Games and Economic Behavior**, 122 (2020), 83–104.

Accepted for Publication.

69. G. Fournier, E. Kuperwasser, O. Munk, E. Solan, and A. Weinbaum. Approachability with Constraints. **European Journal of Operation Research**. Accepted on 10-November-2020.

Submitted for Publication

1. E. Solan and O.N. Solan. Sunspot Equilibrium in Positive Recursive General Quitting Games. **International Journal of Game Theory**. Submitted on 12-July-2020.
2. E. Solan and A. Weinbaum. Uniform Equilibrium in Stochastic Games through a Reduction to Absorbing Games. **International Journal of Game theory**. Submitted on 15-August-2020.
3. E. Solan and C. Zhao. Optimal Dynamic Inspection. **Games and Economic Behavior**. Submitted on 8-October-2020.
4. E. Solan and C. Zhao. When (not) to Publicize Inspection Results. **Journal of Economic Theory**. Submitted on 8-October-2020.

5. E. Solan and N.Z. Yaari. Brother States in Markov Decision Problems. **International Journal of Game theory**. Submitted on 25-October-2020.
6. G. Ashkenazi-Golan, I. Krasikov, C. Rainer, and E. Solan. Absorption Paths and Equilibria in Quitting Games. **Mathematical Programming, Series B**, special issue in honor of Michel Balinski. Submitted 2-December-2020.

In Preperation

1. C. Cavounidis, S. Ghosh, J. Hörner, E. Solan, and S. Takahashi. Blackwell Equilibrium in Repeated Games.
2. F. Afridi, A. Dhillon, and E. Solan (2017) Electoral Competition and Corruption: Theory and Evidence from India.

Working Papers

1. E. Kalai and E. Solan (2005) How to Profile, If we May.
2. E. Solan, B. Tsirelson, and N. Vieille (2012) Random Stopping Times in Stopping Problems and Stopping Games. arXiv:1211.5802.
3. E. Shmaya and E. Solan (2014) Equivalence between Random Stopping Times in Continuous Time. arXiv:1403.7886.

Books

1. S. Zamir, M. Maschler, and E. Solan. Game Theory.
 - Hebrew: Magness Press. 2008. 1006 pages.
 - English: Cambridge University Press. 2013. 1003 pages.
 - Chinese: Truth & Wisdom Press, 2017. 822 pages.
 - English: Cambridge University Press. 2020. 1050 pages. Sent to Publisher.
2. E. Solan. Stochastic Games. Cambridge University Press. Accepted for publication on 10-November-2020.

Newspaper Articles

1. E. Solan. The National Resident Matching Program (in Hebrew, TOHNIT HASHIDUHIM HALE'UMIT LEMITMAHIM). The Marker, 13-April-2005, p. 24.
2. E. Solan. The Wonders of Game Theory (in Hebrew, NIFLA'OT TORAT HAMIS'HAKIM). Status, December-2007.

Chapters in Books and Publications in Proceedings of Conferences

1. E. Solan (2003) Perturbations of Markov Chains with Applications to Stochastic Games. In A. Neyman and S. Sorin, *Stochastic Games and Applications*, NATO Science Series C, Mathematical and Physical Sciences, Vol. 570, Kluwer Academic Publishers, Dordrecht
2. E. Solan (2003) Uniform Equilibrium: More Than Two Players. In A. Neyman and S. Sorin (eds.), *Stochastic Games and Applications*, NATO Science Series C, Mathematical and Physical Sciences, Vol. 570, Kluwer Academic Publishers, Dordrecht
3. E. Solan and N. Vieille (2004) Stopping Games: Recent Results. In *Advances in Dynamic Games*, Birkhauser.
4. D. Rosenberg, E. Solan, and N. Vieille (2006) Stochastic Games with Imperfect Observations. In Haurie A., Muto S., Petrosjan L.A., and Raghavan T.E.S., *Advances in Dynamic Games: Applications to Economics, Management Science, Engineering, and Environmental Management*.
5. E. Solan (2008) Stochastic Games. In *Encyclopedia of Database Systems*, Springer.
6. D. Bauso, E. Lehrer, and E. Solan (2011) Repeated Games over Networks with Vector Payoffs: the Notion of Attainability. *NetGCOOP*, International conference on Network Games, Control and Optimization.
7. E. Solan and B. Ziliotto (2016) Stochastic Games with Signals. In *Advances in Dynamic and Evolutionary Games*, Thuijsman F. and Wagener F.O.O. (eds.), 77–94.
8. J.Y. Levy and E. Solan (2020) Stochastic Games. A revised and extended chapter in Sotomayor M., Perez-Castrillo D., Castiglione F. (eds) *Complex Social and Behavioral Systems*. *Encyclopedia of Complexity and Systems Science Series*. Springer, New York, NY.

Others

1. E. Solan (2008) Learning from Michael Maschler and Working with Him. **Games and Economic Behavior**, 64, 375.
2. E. Solan (2017) Introduction to Mathematical Logic (in Hebrew). *Good to Know* project).
3. E. Solan (2017) The Next-Emperor (in Hebrew, a science fiction book).
4. E. Solan (2020) Monks Cress (in Hebrew, *Kova Hanazir*, a short story). **Lekol Haruchot**, 4, 82–85.