

# EITAN ALTMAN: LIST OF PUBLICATIONS

## MONOGRAPHS

- [1.1] E. Altman, *Constrained Markov Decision Processes*, Chapman and Hall/CRC, 1999.
- [1.2] E. Altman, A. Ferreira, J. Galtier, *Satellite telecommunication networks* (in French), Dunod, Nov., 1999.
- [1.3] E. Altman, B. Gaujal, A. Hordijk, *Discrete-event control of stochastic networks: Multimodularity and Regularity*, Springer-Verlag, Series: Lecture Notes in Mathematics 2003, XIV, 313 p., Softcover ISBN: 3-540-20358-3.

## EDITED VOLUMES AND SPECIAL ISSUES OF JOURNALS

- [1.4] *Advances in Dynamic Games* (Annals of the International Society of Dynamic Games), E. Altman and O. Pourtallier Edts., Birkhäuser, 2001.
- [1.5] *Networks and Spatial Economics* Special Issue: Special Issue on Crossovers Between Transportation and Telecommunication Modeling, Vol 4, Issue 1, March 2004. E. Altman and L. Wynter Edts.
- [1.6] *Performance Evaluation* Special Issue: Selected Papers from the First Workshop on Modelling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt 2003). Vol 57, Issue 4, Aug. 2004.
- [1.7] Co-Edited part 1 (Jan. 2005) and part 2 (March 2005) of *IEEE Journal on Selected Areas in Communications: Special Issue on Wireless Ad Hoc Networks*.
- [1.8] Co-Edited special issue of *Journal of Discrete Event Dynamic Systems* devoted to selected papers of the first International CFirst onference on Performance Evaluation Methodologies and Tools (Valuetools, Pisa, 2006) Editors: E. Altman, B. Gaujal and J. Mairesse. 2008.
- [1.9] Co-editor of *Probability in the Engineering and Informational Sciences*, Volume 22, Issue 04, October 2008. Editors: Eitan Altman, Iddo Eliazar and Hanoch Levy.
- [1.10] Abderrahim Benslimane, Chadi Assi, Eitan Altman and Hsiao-Hwa Chen, Guest Editorial: Special Issue SM 85-Wireless and Mobile Computing, Networking and Communications, Journal Mobile Networks and Applications SpringerLink Date Friday, January 22, 2010

## (2) PAPERS IN REFEREED JOURNALS

- [2.1] E. Altman and A. Shwartz, "Optimal priority assignment: a time sharing approach", *IEEE - Transactions on Automatic Control* **34** No. 10, pp. 1098-1102, 1989.
- [2.2] E. Altman and A. Shwartz, "Markov decision problems and state-action frequencies", *SIAM J. Control and Optimization*, **29**, No. 4, pp. 786-809, 1991.
- [2.3] E. Altman and A. Shwartz, "Adaptive Control of constrained Markov chains", *IEEE Trans. Auto. Control*. **36** No. 4, pp. 454-462, 1991.
- [2.4] E. Altman and A. Shwartz, "Adaptive Control of constrained Markov chains: Criteria and Policies", *Annals of Operations Research* **28**, special issue on "Markov Decision Processes", Eds. O. Hernandez-Lerma and J. B. Lasserre, pp. 101-134, 1991.
- [2.5] E. Altman and A. Shwartz, "Sensitivity of constrained Markov Decision Problems", *Annals of Operations Research*, **32** pp. 1-22, 1991.
- [2.6] A. Khamisy, E. Altman and M. Sidi, "Polling Systems with Synchronization Constraints", *Annals of Operations Research* **35**, special issue on Stochastic Modeling of Telecommunication Systems, Eds. P. Nain and K. W. Ross, pp. 231-267, 1992.
- [2.7] E. Altman, A. Khamisy and U. Yechiali, "On Elevator Polling with Globally Gated Regime", *Queueing Systems* **11**, (special issue on "Polling Models", Eds. H. Takagi and O. Boxma), pp. 85-90, 1992.
- [2.8] E. Altman, P. Konstantopoulos, Z. Liu, "Stability, Monotonicity and Invariant Quantities in General Polling Systems", *Queueing Systems* **11**, (special issue on "Polling Models", Eds. H. Takagi and O. Boxma), pp. 35-57, 1992.
- [2.9] E. Altman and A. Shwartz, "Time-sharing policies for controlled Markov chains", *Operations Research*, **41**, No. 6, pp. 1116-1124, 1993.
- [2.10] E. Altman and V. A. Gaitsgory, "Stability and Singular Perturbations in Constrained Markov Decision Problems", *IEEE Trans. Auto. Control*, **38**, No. 6, pp. 971-975, 1993.
- [2.11] E. Altman and P. Nain, "Optimal Control of an M/G/1 Queue with Vacations", *IEEE-AC*, **38**, No. 12, pp. 1766-1775, 1993.
- [2.12] E. Altman and V. A. Gaitsgory, "Control of a

- hybrid Stochastic System”, *Systems and Control Letters* **20**, pp. 307-314, 1993.
- [2.13] E. Altman, “Asymptotic Properties of Constrained Markov Decision Processes”, *ZOR - Methods and Models in Operations Research*, **37**, Issue 2, pp. 151-170, 1993.
- [2.14] E. Altman, “Denumerable Constrained Markov Decision Problems and Finite Approximations”, *Math. of Operations Research*, **19**, No. 1, pp. 169-191, 1994.
- [2.15] E. Altman and U. Yechiali, “Cyclic Bernoulli Polling”, *ZOR - Methods and Models in Operations Research*, **38**, Issue 1, pp. 55-76, 1993.
- [2.16] E. Altman and G. Koole, “Stochastic scheduling games with Markov decision arrival processes”, *Journal Computers and Mathematics with Appl.* **26**, No. 6, 3rd special issue on “Differential Games”, pp. 141-148, 1993.
- [2.17] E. Altman, “Monotonicity of optimal policies in a zero sum game: a flow control model”, *Advances of dynamic games and applications*, **1**, pp. 269-286, 1994.
- [2.18] E. Altman and O. Zeitouni, “Rate of convergence of empirical measures and costs in controlled Markov chains and transient optimality”, *Mathematics of Operations Research*, **19**, No. 4, pp. 955-974, 1994.
- [2.19] E. Altman, “Flow control using the theory of zero-sum Markov games”, *IEEE Trans. Automatic Control*, **39**, No. 4, pp. 814-818, 1994.
- [2.20] E. Altman, H. Blanc, A. Khamisy and Y. Yechiali, “Polling Systems with walking and switch-in times”, *Stochastic models*, **10**, No. 4, pp. 741-763, 1994.
- [2.21] E. Altman and G. Koole, “Control of a random walk with noisy delayed information”, in *Systems and Control Letters*, **24**, pp. 207-213, 1995.
- [2.22] E. Altman and U. Yechiali, “Closed polling systems”, *Probability in the Engineering and Informational Sciences*, **8**, pp. 327-343, 1994.
- [2.23] E. Altman and H. Levy, “Queueing in space”, *Advances of Applied Probability* **26**, pp. 1095-1116, 1994.
- [2.24] M. Tidball and E. Altman, “Approximations in dynamic zero-sum games, I”, *SIAM J. Control and Optimization*, **34**, No. 1, 311-328, 1996.
- [2.25] E. Altman and F. Spieksma, “The Linear Program approach in Markov Decision Problems revisited”, *ZOR - Methods and Models in Operations Research*, **42**, Issue 2, pp. 169-188, 1995.
- [2.26] E. Altman, D. Kofman and U. Yechiali, “Discrete time queues with delayed information”, *Queueing Systems* **19**, pp. 361-376, 1995.
- [2.27] E. Altman, “Constrained Markov decision processes with total cost criteria: occupation measures and primal LP”, *ZOR - Mathematical Methods in Operations Research*, **43**, issue 1, pp. 45-72, 1996.
- [2.28] E. Altman and V. A. Gaitsgory, “A hybrid (differential-stochastic) zero-sum game with fast stochastic part”, *Annals of the International Society of Dynamic Games*, **3**, pp. 47-59, 1995.
- [2.29] E. Altman and S. Stidham, “Optimality of monotonic policies for two-action Markovian decision processes, with applications to control of queues with delayed information”, invited paper, *Queueing Systems* **21**, special issue on optimization of queueing systems, 267-291, 1995.
- [2.30] E. Altman and F. Spieksma, “Polling systems: moment stability of station times and central limit theorems”, *Stochastic Models*, **12** No. 2, 307-328, 1996.
- [2.31] E. Altman and A. Hordijk, “Zero-sum Markov games and worst-case optimal control of queueing systems”, invited paper, *Queueing Systems* **21**, special issue on optimization of queueing systems, Ed. S. Stidham, 415-447, 1995.
- [2.32] E. Altman and P. Nain, “Optimality of a Threshold Policy in the M/M/1 Queue with repeated Vacations”, *ZOR - Mathematical Methods of Operations Research*, **44**, Issue 2, pp. 75-96, 1996.
- [2.33] E. Altman and Z. Liu, “Improving the stability characteristics of asynchronous traffic in FDDI token rings”, *Performance Evaluation* **26**, pp. 219-234, 1996.
- [2.34] E. Altman and D. Kofman, “Bounds for Performance Measures of Token Rings”, *IEEE/ACM Transactions on Networking* pp. 292-299, April, 1996.
- [2.35] E. Altman, “Non zero-sum stochastic games in admission, service and routing control in queueing systems”, *Queueing Systems*, **23**, pp. 259-279, 1996.
- [2.36] E. Altman, “A Markov game approach for optimal routing into a queueing network”, *Annals of Dynamic Games Vol 5: Stochastic and Differential Games, Theory and Numerical Methods*, M. Bardi, T.E.S. Raghavan and T. Parthasarathy (Editors), Birkhäuser Boston, Basel, Berlin, 359-376, 1999.
- [2.37] M. Tidball, O. Pourtallier and E. Altman, “Approximations in dynamic zero-sum games, II”, *SIAM J. Control and Optimization*, Volume 35, Number 6, Nov. 1997.
- [2.38] E. Altman, A. Hordijk and F. M. Spieksma, “Contraction conditions for average and alpha-discount optimality in countable state Markov games with unbounded rewards”, *Math. of Operations Research*, **22** No. 3, pp. 588-618, Aug. 1997.
- [2.39] E. Altman and A. Hordijk, “Applications of Borovkov’s Renovation Theory to Non-Stationary Stochastic Recursive Sequences and their Control”, *Advances of Applied Probability* **29**, pp. 388-413, 1997.
- [2.40] E. Altman, A. Hordijk and L. C. M. Kallen-

- berg, "On the value in constrained control of Markov chains", *ZOR - Methods and Models in Operations Research*, **44**, Issue 3, pp. 387-400, 1996.
- [2.41] E. Altman, S. Foss, E. Riehl, S. Stidham, "Performance Bounds and Pathwise Stability for Generalized Vacation and Polling Systems", *Operations Research*, **Vol 46 No. 1**, pp. 137-148, 1998.
- [2.42] E. Altman and V. A. Gaitsgory, "Asymptotic optimization of a nonlinear hybrid system governed by a Markov decision process", *SIAM J. Control and Optimization*, Volume 35, Number 6, pp. 2070-2085, Nov. 1997.
- [2.43] P. Shi, V. Gaitsgory and E. Altman, "On asymptotic optimization of a class of nonlinear stochastic hybrid systems" *ZOR - Methods and Models in Operations Research*, **47**, No. 2, 1998.
- [2.44] O. Ait-Hellal, E. Altman and T. Başar, "Rate based flow control with bandwidth information", *European Trans. on Telecom.*, pp. 55-66, 1997.
- [2.45] E. Altman and S. Foss, "Polling on a graph with general arrival and service time distribution", *Letters of Operations Research*, **20**, pp. 187-194, 1997.
- [2.46] E. Altman and A. A. Borovkov, "On the stability of retrial queues", *Queueing Systems*, **26**, No. 3-4, pp. 343-363, 1997.
- [2.47] E. Altman and G. Koole, "On submodular value functions and complex dynamic programming", "Stochastic Models", **14**, No. 5, pp. 1051-1072, 1998.
- [2.48] E. Altman, "Constrained Markov decision processes with total cost criteria: Lagrangian approach and dual LP", *ZOR - Methods and Models in Operations Research*, **48**, pp. 387-417, 1998.
- [2.49] E. Altman and A. Jean-Marie, "Loss probabilities for messages with redundant packets feeding a finite buffer", *IEEE Journal of Selected Areas in Communications*, **16**, No. 5, pp. 779-787, 1998.
- [2.50] E. Altman and T. Başar, "Multi-user rate-based flow control", *IEEE Trans. on Communications*, pp. 940-949, 1998.
- [2.51] E. Altman and N. Shimkin, "Individual equilibrium and learning in processor sharing systems", *Operations Research*, vol. 46, pp. 776-784, 1998.
- [2.52] E. Altman and A. Schwartz, "Constrained Markov Games: Nash Equilibria", *Annals of Dynamic Games*, vol. 5, Birkhäuser, V. Gaitsgory, J. Filar and K. Mizukami, editors, pp. 213-221, 2000.
- [2.53] E. Altman, K. E. Avrachenkov and J. A. Filar, "Asymptotic linear programming and policy improvement for singularly perturbed Markov decision processes", *ZOR - Methods and Models in Operations Research*, **49**, pp. 97-110, 1999.
- [2.54] O. Ait-Hellal, E. Altman, D. Elouadghiri, M. Erramdani, "Performance evaluation of the rate-based flow control mechanism for ABR service", *Telecommunications systems*, **Vol. 12**, pp. 211-236, 1999.
- [2.55] E. Altman, D. Artiges, K. Traore, "On the Integration of Best-Effort and Guaranteed Performance Services", *European Transactions on Telecommunications*, Special Issue on Architectures, Protocols and Quality of Service for the Internet of the Future, **10**, Issue 2, March-April, 125-134, 1999.
- [2.56] E. Altman, T. Başar, Z. Pan, "Piecewise-deterministic differential games and dynamic teams with hybrid controls", *Annals of Dynamic Games*, vol. 5, Birkhäuser, V. Gaitsgory, J. Filar and K. Mizukami, editors, pp. 223-256, 2000.
- [2.57] E. Altman, T. Başar, N. Hovakimian, "Worst-case rate-based flow control with an ARMA model of the available bandwidth", *Annals of Dynamic Games*, vol. 5, Birkhäuser, V. Gaitsgory, J. Filar and K. Mizukami, editors, pp. 3-29, 2000.
- [2.58] E. Altman and H. J. Kushner, "Admission Control for Combined Guaranteed Performance and Best Effort Communications Systems Under Heavy Traffic", *SIAM J. Control and Optimization*, pp. 1780-1807, vol 37 no 6, 1999.
- [2.59] E. Altman, T. Başar and R. Srikant, "Congestion control as a stochastic control problem with action delays", *Automatica* special issue on *Control issues in telecommunication networks*, pp. 1937-1950, Dec. 1999.
- [2.60] O. Ait Hellal, E. Altman, A. Jean-Marie and I.A. Kurkova, "On loss probabilities in presence of redundant packets and several traffic sources", *Performance Evaluation*, pp. 486-518, Vol 36-37, 1999.
- [2.61] E. Altman, E. A. Feinberg and A. Schwartz, "Weighted discounted stochastic games with perfect information", *Annals of Dynamic Games*, vol. 5, Birkhäuser, V. Gaitsgory, J. Filar and K. Mizukami, editors, pp. 303-323, 2000.
- [2.62] M. Tidball, A. Lombardi, O. Pourtallier and E. Altman, "Continuity of optimal values and solutions for control of Markov chains with constraints", *SIAM J. Control and Optimization*, Vol. 38, No. 4, pp. 1204-1222, 2000.
- [2.63] C. Barakat, W. Dabbous and E. Altman, "On TCP Performance in an Heterogeneous Network: A Survey", *IEEE Communication Magazine*, January, 2000.
- [2.64] E. Altman, B. Gaujal and A. Hordijk, "Balanced Sequences and Optimal Routing", *JACM*, Vol. 47, Issue 4, pp. 752-775, 2000.
- [2.65] E. Altman, B. Gaujal and A. Hordijk, "Admission Control in Stochastic Event Graphs", *IEEE Automatic Control*, pp. 854-867, Vol. 45, No. 5, 2000.
- [2.66] E. Altman, A. Orda and N. Shimkin, "Bandwidth allocation for Guaranteed versus Best Effort service categories", *QUESTA*, **36**, pp. 89-105, 2000.

- [2.67] E. Altman, E. Feinberg, J. Filar, V. Gaitsgory, "Perturbed zero-sum games with applications to stochastic and repeated games", *Advances of dynamic games and applications*, (E. Altman and O. Pourtallier Edts.) pp. 165-181, 2001.
- [2.68] E. Altman, B. Gaujal and A. Hordijk, "Modularity, Convexity and Optimization Properties", *Math. of Oper. Research*, Vol. 25, pp. 324-347, 2000.
- [2.69] E. Altman, S. Bhulai, B. Gaujal and A. Hordijk, "Optimal Routing to M parallel servers with no buffers", *Journal of Applied Probability*, **37**, No. 3, pp. 668-684, Sept. 2000.
- [2.70] R. El-Azouzi, M. Abbad and E. Altman, "Perturbation of linear quadratic systems with jump parameters and hybrid controls", *ZOR - Methods and Models in Operations Research*, Vol. 51, No. 3, pp. 399-417, 2000.
- [2.71] H. Kameda, E. Altman, T. Kozawa and Y. Hosokawa, "Braess-like paradoxes of Nash Equilibria for load balancing in distributed computer systems", *IEEE Trans. on Automatic Control*, **45**, No. 9, 1687-1691, 2000.
- [2.72] E. Altman, G. Koole and T. Jiménez, "On the comparison of queueing systems with their fluid limits", *Probability in the Engineering and Informational Sciences*, **15**, pp. 165-178, 2001.
- [2.73] E. Altman, B. Gaujal and A. Hordijk, "Optimal open-loop control of vacations, polling and service assignment", *Queueing Systems* Vol. 36, No. 4 pp 303-325, 2000.
- [2.74] E. Altman, Chadi Barakat and K. Avratchenkov, "TCP in presence of bursty losses" *Performance Evaluation*, Vol. 42, Issues 2-3, pp. 129-147, 2000. (This is an extension of INRIA Research Report RR-3824, 1999).
- [2.75] O. Ait-Hellal and E. Altman, "Analysis of TCP Vegas and TCP Reno", *Telecommunication Systems*, Vol. 5, pp. 381-404, 2000.
- [2.76] E. Altman, O. Pourtallier, A. Haurie, F. Moresino, "Approximating Nash equilibria in nonzero-sum games", *International Game Theory Review*, Vol 2, Nos. 2-3, pp. 155-172, 2000.
- [2.77] E. Altman, T. Başar, T. Jiménez and N. Shimkin, "Competitive routing in networks with polynomial cost", *IEEE Trans. on Automatic Control*, Vol 47, pp. 92-96, Jan. 2002.
- [2.78] E. Altman, T. Başar, T. Jiménez and N. Shimkin, "Routing into two parallel links: game-theoretic distributed algorithms", Special Issue of *Journal of Parallel and Distributed Computing* on "Routing in Computer and Communication Networks", pp. 1367-1381, Vol. 61, No. 9, September 1, 2001.
- [2.79] E. Altman, Z. Liu and R. Righter, "Scheduling of an input-queued switch to achieve maximal throughput", *Probability in the Engineering and Informational Sciences*, vol. 14, p. 327-334, 2000.
- [2.80] E. Altman, "Applications of Markov Decision Processes in Communication Networks: a Survey", in *Markov Decision Processes, Models, Methods, Directions, and Open Problems*, E. Feinberg and A. Shwartz (Editors) Kluwer, pp. 488-536, 2001.
- [2.81] E. Altman and H. Kushner, "Control of Polling in Presence of Vacations in Heavy Traffic with Applications to Satellite and Mobile Radio Systems", *SIAM J. Control and Optimization*, Vol 41, No. 1, pp. 217-252, 2002.
- [2.82] O. Sharon and E. Altman, "On efficient polling MAC for wireless LANs", *IEEE/ACM Transactions on Networking*, Volume 9, Number 4, August, 2001.
- [2.83] E. Altman, A. Hordijk, B. Gaujal, "Regular ordering and applications in control policies", *Journal of Discrete Event Systems*, 2001.
- [2.84] R. El-Azouzi, M. Abbad and E. Altman, "Perturbation of linear multidimensional quadratic systems with jump parameters and hybrid controls", *IEEE Trans. on Automatic Control*, Volume 46, Issue 10, pp. 1666-1671, Oct. 2001.
- [2.85] E. Altman, G. Koole and T. Jiménez, "On optimal call admission control in a resource-sharing system", *IEEE Trans. on Communications*, Volume 49, Number 9, 1659-1668, 2001.
- [2.86] A. S. Nowak and E. Altman, "epsilon-Nash equilibria in stochastic games with uncountable state space and unbounded cost", *SIAM J. Control and Optimization*, **40**, No. 6, pp. 1821-1839, 2002.
- [2.87] T. Boulogne, E. Altman and O. Pourtallier, "On the convergence to Nash equilibrium in problems of distributed computing", *The Annals of Operations Research* special volume on *applications of game theory*, 109(1): 279-291; Jan 2002.
- [2.88] T. Boulogne, E. Altman, O. Pourtallier and H. Kameda, "Mixed Equilibrium for Multiclass Routing Games", in *IEEE Automatic Control Special issue on Control issues in telecommunication networks*, Vol 47 Number 6, pp. 903-916, June 2002.
- [2.89] T. Alpcan, T. Başar, R. Srikant and E. Altman, "CDMA uplink power control as a noncooperative game", *Wireless Networks*, Vol. 8, Issue 6, pp. 659-670, 2002.
- [2.90] E. Altman, C. Barakat, K. Avratchenkov and S. Nuñez-Queija, "State-dependent M/G/1 type queueing analysis for congestion control in data networks", *Communication Networks*, 39 (6), pp. 789-808, 2002.
- [2.91] C. Barakat and E. Altman "Bandwidth tradeoff between TCP and link-level FEC", *Communication Networks*, vol. 39, no. 2, pp. 133-150, June, 2002.
- [2.92] E. Altman, "Stochastic recursive equations with applications to queues with dependent vacations", *Annals*

of *Operations Research*, 112(1): 43-61; Apr, 2002.

[2.93] E. Altman, T. Başar and R. Srikant, "Nash Equilibria for Combined Flow Control and Routing in Networks: Asymptotic Behavior for a Large Number of Users", *IEEE Trans. on Automatic Control*, special issue on control issues in telecommunication networks, Vol 47 No 6, pp. 917-930, June 2002.

[2.94] E. Altman, H. Kameda and Y. Hosokawa, "Nash Equilibria in Load Balancing in Distributed Computer Systems" *International Game Theory Review (IGTR)*, Vol. 4, No. 2, pp. 91-100, June 2002.

[2.95] E. Altman, C. Barakat and V. M. Ramos-Ramos, "Queueing analysis of simple FEC schemes for Voice over IP", *Communications Networks*, vol. 39, no. 2, pp. 185-206, June, 2002.

[2.96] E. Altman, T. Jimenez, R. Nunez Queija, "Analysis of two competing TCP/IP connections", *Performance Evaluation*, Vol 49, Issue 1-4, pp. 43-55, 2002.

[2.97] E. Altman, R. El-Azouzi and V. Abramov, "Non-Cooperative Routing in Loss Networks", *Performance Evaluation*, Vol 49, Issue 1-4, pp. 257-272, 2002.

[2.98] Z. Pan, E. Altman and T. Başar, "Robust Adaptive Flow Control in High Speed Telecommunication Networks", *Applied and Computational Mathematics*, 1, No. 2, 2002.

[2.99] Jerzy A. Filar, Eitan Altman and Konstantin E. Avrachenkov An asymptotic simplex method for singularly perturbed linear programs, *Operations Research Letters*, Volume 30, Issue 5, pp 295-307, Oct. 2002.

[2.100] P. Dube, O. Ait-Hellal and E. Altman, "Loss Probabilities in Presence of Redundant Packets with Random Drop", *Performance Evaluation*, Volume 53, Issues 3-4, pp 147-167, 2003.

[2.101] C. Touati, E. Altman, J. Galtier, "Semi-Definite Programming Approach for Bandwidth Allocation and Routing in Networks", *Game Theory and Applications*, Nova publisher, Vol. 9, pp 169-179, 2003.

[2.102] E. Altman and Z. Altman, "S-modular games and power control in wireless networks", *IEEE Trans. on Automatic Control*, Vol. 48, No. 5, pp. 839-842, May, 2003.

[2.103] P. Dube and E. Altman, "Queueing and Fluid Analysis of Partial Message Discarding Policy", *QUESTA*, Volumes 44, Number 3, pp. 253-280, 2003.

[2.104] P. Dube and E. Altman, "On the workload process in a fluid queue with bursty input and selective discarding", *Probability in the Engineering and Informational Sciences (PEIS)*, Vol 17, 527-543, Oct, 2003.

[2.105] R. El Azouzi and E. Altman, "Constrained traffic equilibrium in routing", *IEEE Automatic Control*, Vol. 48 No. 9, pp. 1656-1660, Sept. 2003.

[2.106] Eitan Altman, Rachid El Azouzi and Odile Pourtallier, "Avoiding paradoxes in multi-agent competitive routing", *Computer Networks*, Volume 43, Issue 2, 7 October 2003, Pages 133-146.

[2.107] S. Alouf, E. Altman, C. Barakat, P. Nain, "Optimal estimation of multicast membership", in *IEEE Transactions on Signal Processing*, special issue on Signal Processing in Networking. 51(8), pp. 2165-2176, 2003.

[2.108] E. Altman and L. Wynter, "Equilibrium, games, and pricing in transportation and telecommunication networks", *Networks and Spatial Economics*, special issue on "Crossovers between Transportation Planning and Telecommunications", Vol 4, Issue 1, p. 7-21, March 2004.

[2.109] E. Altman and T. Jiménez, "Simulation analysis of RED with short lived TCP connection", *Computer Networks*, Vol 44 Issue 5, pp. 631-641, April 2004.

[2.110] E. Altman, R. El-Azouzi and T. Jimenez, "Slotted Aloha as a stochastic game with partial information", *COMNET*, Volume 45, Issue 6, pp. 701-713, 2004.

[2.111] E. Altman, K. E. Avrachenkov, R. Nunez-Queija, "Perturbation analysis for denumerable Markov chains with application to queueing models", *Advances in Applied Probability*, Vol 36, Number 3, pp. 839-853, 2004.

[2.112] E. Altman, R. Marquez and U. Yechiali, "Admission and routing control with partial information and limited buffers", *International Journal of Systems Science*, Vol. 34, No. 10-11, 615-626, 2003.

[2.113] Omar Ait-Hellal and Eitan Altman, "Stability of ABR congestion control using the theory of delayed differential equations", *International Journal of Systems Science*, 34:10, 575-584, 2003.

[2.114] W.-K. Ching, M. K. Ng, K.-K. Wong and E. Altman, "Customer Lifetime Value: Stochastic Optimization Approach", *Journal of the Operational Research Society*, vol 55, pp. 860-868, 2004.

[2.115] C. Barakat and E. Altman, "A Markovian Model for TCP analysis in a differentiated services network", *Telecommunication Systems*, 25:1,2, pp 129-155, 2004.

[2.116] E. Altman, T. Jiménez, R. Núñez-Queija and U. Yechiali, "Optimal routing among  $M/1$  queues with partial information", *Stochastic Models* 20(2) pp. 149-172, 2004.

[2.117] E. Altman, K. Avrachenkov, C. Barakat and P. Dube, "Performance Analysis of AIMD Mechanisms over a Multi-state Markovian Path", *Computer Networks*, vol. 47, pp. 307-326, 2005.

[2.118] E. Altman, K. Avrachenkov, C. Barakat, "A Stochastic Model of TCP/IP with Stationary Random Losses", in *IEEE/ACM Transactions on Networking*, vol. 13, no. 2, pp. 356- 369, April 2005.

- [2.119] E. Altman, "Applications of dynamic games in queues", *Advances in Dynamic Games*, Vol. 7, pp. 309–342, Birkhäuser, Boston, Basel, Berlin, 2005.
- [2.120] E. Altman and H. Kameda, "Equilibria for multiclass routing problems in multi-agent networks", *Advances in Dynamic Games*, Vol. 7, pp. 343–368, Birkhäuser, Boston, Basel, Berlin, 2005.
- [2.121] R. El. Azouzi, M. Abbad and E. Altman "A Taylor series expansion for  $H^\infty$  control of perturbed Markov jump linear systems", *Advances in Dynamic Games*, Vol. 7, Birkhäuser, Boston, Basel, Berlin, pp. 499-514, 2005.
- [2.122] E. Altman, K. Avrachenkov, C. Barakat, A.A. Kherani and B. J. Prabhu, "Analysis of MIMD Congestion Control Algorithm for High Speed Networks", *Computer Networks* Vol 48/6 pp 972-989, 2005.
- [2.123] E. Altman, C. Barakat and V. M. Ramos Ramos, "Analysis of AIMD protocols over paths with variable delay", *Computer Networks* vol. 48, no. 6, pp. 960-971, august 2005.
- [2.124] E. Altman, T. Boulogne, R. El Azouzi, T. Jimenez and L. Wynter, "A survey on networking games", *Computers and Operations Research*, Vol. 33, Issue 2, 286–311, 2006.
- [2.125] E. Altman, D. Barman, R. El Azouzi, D. Ros and B. Tuffin, "Pricing Differentiated Services: A Game-Theoretic Approach", *Computer Networks*, Volume 50, Issue 7, 15 May 2006, Pages 982-1002
- [2.126] R. Marquez, E. Altman, and S. Sole-Alvarez, "Time-Averaging of high-speed data transfer protocols", *IEEE Trans. Aut. Control*, Vol 50, No. 12, pp. 2065-2069, 2005.
- [2.127] D. Miorandi, A. A. Kherani and E. Altman, "A queueing model for HTTP traffic over IEEE 802.11 WLANs", Pages 63-79, *Computer Networks*, Volume 50, Issue 1, Pages 1-144 (16 January 2006)
- [2.128] E. Altman, K. Avrachenkov, R. Marquez and G. Miller, "Zero-sum constrained stochastic games with independent state processes", *Math. Meth. Oper. Res.*, Vol. 62, pp. 375-386, Dec. 2005.
- [2.129] A. Al Hanbali, E. Altman, P. Nain, "A survey of TCP over Ad Hoc Networks", 3rd issue of IEEE Communications Surveys & Tutorials, Vol. 7, No. 3, August 2005.
- [2.130] E. Altman, K. Avrachenkov and B. J. Prabhu, "Fairness in MIMD Congestion Control Algorithms", *Telecommunication Systems*, Vol. 30, No. 4, pp. 387-415, 2005.
- [2.131] A.A. Kherani, B. J. Prabhu, K. E. Avrachenkov, E. Altman, "Comparative Study of different adaptive window protocols", *Telecommunication Systems*, Vol. 30, No. 4, pp. 321-350, 2005.
- [2.132] R. Groenevelt and E. Altman, "Analysis of alternating-priority queueing models with (cross) correlated switchover times", *Queueing Systems*, Vol. 51, pp. 199-247, 2005.
- [2.133] T. Boulogne and E. Altman, "Competitive routing in multicast communications, Networks", *Networks*, Volume 46, Issue 1, Pages 22 - 35, 2005
- [2.134] C. Touati, E. Altman and J. Galtier, "Generalized Nash Bargaining Solution for bandwidth allocation", *Computer Networks*, Vol 50, pp 3242-3263, 2006
- [2.135] D. Miorandi and E. Altman, "Connectivity in Ad-Hoc Networks: a Queueing Theoretical Approach", *Wireless Networks*, 2006.
- [2.136] R. Groenevelt, E. Altman, P. Nain, "Relaying in Mobile Ad Hoc Networks: the Brownian motion mobility model", *Wireless Networks*, Vol. 12, No. 5, pp. 561-571, October 2006.
- [2.137] E. Altman and U. Yechiali, "Analysis of customers' impatience in queues with server vacations", *Queueing Syst* 52:261–279, 2006.
- [2.138] E. Altman, K. Avrachenkov and U. Ayesta, "A survey on discriminatory processor sharing", *Queueing Systems*, Vol. 53, No. 1-2, pp. 53-63, June 2006.
- [2.139] N. Bonneau, M. Debbah and E. Altman, "Spectral Efficiency of CDMA Downlink Cellular Networks with Matched Filter", *EURASIP Journal on Wireless Communications and Networking*, Volume 2006, Article ID 74081, Pages 1-10
- [2.140] N. Hegde and E. Altman, "Capacity of multi-service WCDMA Networks with variable GoS", *Wireless Networks* (Springer), Vol. 12 No. 2, pp. 241-253, April 2006.
- [2.141] S. Shakkottai, E. Altman and A. Kumar, "The Case for Non-cooperative Multihoming of Users to Access Points in IEEE 802.11 WLANs", invited paper, *IEEE Journal of Selected Areas in Communications*, Vol 25 No 6, 1207-1215, Aug 2007.
- [2.142] Daniele Miorandi, Eitan Altman and Giuseppa Alfano, "The Impact of Channel Randomness on Coverage and Connectivity of Ad Hoc and Sensor Networks", *IEEE Transactions on Wireless Communications*, Vol 7 No 3, pp. 1062-1071, 2007.
- [2.143] E. Altman, K. Avrachenkov, N. Bonneau, M. Debbah, R. El-Azouzi and D. Sadoc Menasche, "Constrained Cost-Coupled Stochastic Games with Independent State Processes" *Operations Research Letters*, Vol 36 pp. 160-164, 2008.
- [2.144] A. Al-Hanbali, A. Kherani, R. Groenevelt, P. Nain, and E. Altman "Impact of Mobility on the Performance of Relaying in Ad hoc Networks", *Computer Networks (COMNET)*, vol 51, No 14, pp. 4112–4130, 2007.

- [2.145] E. Altman and R. El-Azouzi, "La théorie des jeux non-coopératifs appliquée aux réseaux de télécommunication", (in French) in *Annales des Télécommunications*, 2007
- [2.146] D. Kumar, A. A. Kherani and E. Altman, "Route Lifetime based Optimal Hop Selection in VANETs on Highway: An Analytical Viewpoint", *IEEE Transactions on Vehicular Technology*, 2007.
- [2.147] Eitan Altman and Dieter Fiems, "Expected waiting time in symmetric polling systems with correlated vacations", *Queueing Syst*, vol 56, pp 241-253, 2007.
- [2.148] A. Kumar, E. Altman, D. Miorandi, M. Goyal, "New Insights From a Fixed-Point Analysis of Single Cell IEEE 802.11 WLANs", *IEEE/ACM Transactions on Networking*, Volume 15, Issue 3, pp. 588 - 601, June 2007.
- [2.149] J. M. Kelif, E. Altman and I. Koukoutsidis, "Admission and GoS control in a multiservice WCDMA system", *Computer Networks*, Volume 51, Issue 3, 21, pp. 699-711 February 2007.
- [2.150] Eitan Altman and Uri Yechiali, "Infinite-Server Queues with System's Additional Tasks and Impatient Customers", to appear in *Probability in the Engineering and Informational Sciences* (PEIS), 2008.
- [2.151] H. Kameda, E. Altman and O. Pourtallier, "A Mixed Optimum in Symmetric Distributed Computer Systems", *Transactions on Automatic Control*, Vol 53 No 2, pp. 631-635, March 2008.
- [2.152] Saleh Yousefi, Eitan Altman, Rachid El-Azouzi and Mahmood Fathy "Improving connectivity in vehicular ad hoc networks: an analytical study", *Computer Communications*, Volume 31, Issue 9, 8 June 2008, Pages 1653-1659.
- [2.153] E Altman, T. Basar and N. Malouch, "The role of information update in flow control", *IEEE Transactions on Communications*, Vol 56 No. 8, pp 1331-1342, 2008.
- [2.154] Tijani Chahed, Eitan Altman, Salah Eddine Elayoubi, "Joint uplink and downlink admission control to both streaming and elastic flows in CDMA/HSDPA systems", *Performance Evaluation*, pp. 869 - 882, 2008.
- [2.155] Hisao Kameda and Eitan Altman, "Inefficient Noncooperation in Networking Games of Common-Pool Resources", *IEEE JSAC Special Issue on "Game Theory in Communication Systems"*, Vol 26 No 7, 1260-1268, 2008.
- [2.156] N. Bonneau, M. Debbah, E. Altman and A. Hjørungnes, "Non-Atomic Games for Multi-User Systems", *IEEE J. on Selected Areas in Communications "Game Theory in Communication Systems"*, Vol 26, No 7, pp 1047-1048, 2008.
- [2.157] Eitan Altman, "Semi-linear stochastic difference equations", *Discrete Event Dynamic Systems*, 19:115-136, 2009.
- [2.158] Saleh Yousefi, Eitan Altman, Rachid El-Azouzi and Mahmood Fathy, "Analytical Model for Connectivity in Vehicular Ad Hoc Networks", *IEEE Transactions on Vehicular Technology*, Vol 57 Issue 6, pp. 3341-3356, Nov 2008.
- [2.159] V. Ramaiyan, A. Kumar and E. Altman, "Fixed Point Analysis of Single Cell IEEE 802.11e WLANs: Uniqueness and Multistability", *IEEE/ACM Transactions on Networking*, Vol 16 No 5, pp. 1080-1093, Oct. 2008.
- [2.160] A. Al Hanbali, P. Nain and E. Altman, "Performance of ad hoc networks with two-hop relay routing and limited packet lifetime (extended version)", *Performance Evaluation*, Vol 65 No 6-7, 463-483, June 2008.
- [2.161] A. Kherani, R. El-Khoury, R. El-Azouzi and E. Altman, "Stability-throughput tradeoff and routing in multi-hop wireless ad hoc networks", *Computer Networks*, Vol 52 No. 7, 1365-1389, May 2008.
- [2.162] Eitan Altman, Rachid ElAzouzi, Yezekael Hayel, Hamidou Tembine, "The Evolution of Transport Protocols: An Evolutionary Game Perspective", *Computer Networks*, Volume 53, Issue 10, 14 July 2009, Pages 1751-1759.
- [2.163] E. Altman, Y. Hayel, H. Tembine, and R. El-Azouzi "Markov Decision Evolutionary Games with Expected Average Fitness", *Evolutionary Ecology Research*, 11 (4), pp. 677-689, 2009.
- [2.164] Eitan Altman, Konstantin Avratchenkov, Andrey Garnae, "Closed form solutions for water-filling problem in optimization and game frameworks", *Telecommunication Systems*, 2009. Special Issue dedicated to selected papers from GameComm'08.
- [2.165] S. Lasaulce, M. Debbah and E. Altman, "Methodologies for Analyzing Equilibria in Wireless Games", *IEEE Signal Processing Magazine*, Special issue on Game Theory, vol. 26, no. 5, pp. 51-52, 2009.
- [2.166] Venkatesh Ramaiyan, Eitan Altman, and Anurag Kumar, "Delay Optimal Scheduling in a Two-Hop Vehicular Relay Network," *ACM/Springer Mobile Networks and Applications (MONET)*, Special Issue on Advances and Applications in Vehicular Ad Hoc Networks, 2009. Available in <http://arxiv.org/pdf/0907.3616v1>
- [2.167] Yezekael Hayel, Hamidou Tembine, Eitan Altman, Rachid El-Azouzi "A Markov Decision Evolutionary Game for Individual Energy Management", to appear in the *Annals of the International Society of Dynamic Games*, 2009.
- [2.168] Eitan Altman, Urtzi Ayesta and Balakrishna J. Prabhu, "Load Balancing in Processor Sharing Systems", *Telecommunication Systems*, 2009. Special Issue dedicated to selected papers from GameComm'08.
- [2.169] Eitan Altman and Eilon Solan, "Constrained Games: the impact of the attitude to adversary's constraints", *IEEE Transactions on Automatic Control*, vol.54,

no.10, pp.2435-2440, Oct. 2009

[2.170] Hamidou Tembine, Eitan Altman, Rachid El-Azouzi and Yezekael Hayel, "Evolutionary Games in Wireless Networks", IEEE Transactions on Systems, Man, and Cybernetics: Part B, special issue on Game Theory.

[2.171] Eitan Altman, Alonso Silva, Pierre Bernhard, Merouane Debbah, "Continuum Equilibria for Routing in Dense Static Ad-hoc Networks", to appear in Computer Networks, 2009

[2.172] Jean-Marc Kelif and Eitan Altman, "Impact of macrodiversity on capacity and coverage of cellular network", Telecommunication Systems, 43 (1-2), pp. 133-143, 2010.

[2.173] H. Tembine, E. Altman, R. El-Azouzi, Y. Hayel. "Bio-inspired Delayed Evolutionary Game Dynamics with Networking Applications", Telecommunication Systems Journal, 2009.

[2.174] Eitan Altman and Yezekael Hayel, "Markov Decision Evolutionary Games", IEEE Transactions on Automatic Control, June 2010.

[2.175] Eitan Altman, Tania Jimenez and Daniel Kofman, "Discriminatory processor sharing queues with stationary ergodic service times and the performance of TCP in overload", Comput. Netw. (2010), doi:10.1016/j.comnet.2009.11.010

[2.175] E. Altman, K. Avrachenkov, and A. Garnaev, "Fair resource allocation in wireless networks in the presence of a jammer", Performance Evaluation, 2010.

### (3) REFEREED CONFERENCE PAPERS

All conferences except [3.27,3.28] are international.

[3.1] E. Altman and A. Schwartz, "Optimal priority assignment with general constraints", Proceedings of the 24th Allerton Conf., Illinois, October 1986.

[3.2] E. Altman and A. Schwartz, "Markov optimization problems: state-action frequencies revisited", 27th IEEE Conference on Decision and Control, Austin, Texas, December 1988 (invited paper).

[3.3] E. Altman and A. Schwartz, "Adaptive control of constrained Markov chains", 14th Symposium on Operations Research, Ulm, Germany, September 1989.

[3.4] E. Altman, "Adaptive Markov Decision Problems under Constraints", 27th Allerton Conference on Communication, control and computing, Allerton House, University of Illinois at Urbana-Champaign, Illinois, September 1989.

[3.5] A. Khamisy, E. Altman and M. Sidi, "Polling Systems with Synchronization Constraints", International

Symposium on Information Theory, Budapest, June 1991.

[3.6] E. Altman and P. Nain, "Closed-loop control with delayed information", *Proceedings of the ACM Sigmetrics Conference on Measurement and Modeling of Computer Systems*, (New Port, Rhode Island), pp. 193-204, ACM, June 1992.

[3.7] E. Altman and V. A. Gaitsgory, "Asymptotic Optimization of a Linear Differential System Controlled by a Markov Decision Process", 31st IEEE Conference on Decision and Control, Tucson, Arizona, December 1992.

[3.8] E. Altman, "Flow control using the theory of zero-sum Markov games", 31st IEEE Conference on Decision and Control, Tucson, Arizona, December 1992.

[3.9] E. Altman and P. Nain, "Optimal Control of an M/G/1 Queue with Vacations", 31st IEEE Conference on Decision and Control, Tucson, Arizona, December 1992.

[3.10] E. Altman, "Monotonicity of optimal policies in a zero sum game: a flow control model", *Proceedings of the 5th Symposium on Dynamic Games and Applications*, Grimentz, July 1992.

[3.11] E. Altman and Z. Liu, "Improving the stability characteristics of asynchronous traffic in FDDI token rings", *High Speed Networks and their performance*, H. G. Perros and Y. Viniotis Eds., North Holland, pp. 441-460, 1994 (Proceeding of the 5th International Conference on High Speed Networks, Raleigh, USA, October 1993).

[3.12] E. Altman, F. Baccelli and J. C. Bolot, "Discrete-time analysis of adaptive rate control mechanisms", *High Speed Networks and their performance*, H. G. Perros and Y. Viniotis Eds., North Holland, pp. 121-140, 1994 (Proceeding of the 5th International Conference on High Speed Networks, Raleigh, USA, October 1993). (Also: 3rd joint ENST Paris/INA Stuttgart workshop on high speed networks, Paris, March 23, 1993.)

[3.13] E. Altman and A. Jean-Marie, "The loss process of messages in an M/M/1/K queue", IEEE INFOCOM'94, Toronto, Canada, pp. 1191-1198, June, 1994.

[3.14] E. Altman, S. Foss, E. Riehl, S. Stidham, "Sample path analysis of token rings", *The Fundamental Role of Teletraffic in the Evolution of Telecommunications Networks, Proceedings of the 14th International Teletraffic Congress*, Antibes Juan-les-Pins, France, June, pp. 811-820, 1994.

[3.15] E. Altman, "Analysing Timed-Token Ring Protocols Using the Power Series Algorithm", *The Fundamental Role of Teletraffic in the Evolution of Telecommunications Networks, Proceedings of the 14th International Teletraffic Congress*, Antibes Juan-les-Pins, France, June, pp. 961-971, 1994.

[3.16] E. Altman and V. Gaitsgory, "A Hybrid (differential-stochastic) zero-sum game with fast stochastic part", the proceedings of the 6th International Symposium on Dynamic Games and Applications, July 13-15, 1994, St-Jovite, Quebec, CANADA

- [3.17] M. Tidball and E. Altman, "Approximations in dynamic zero-sum games", Proceedings of the 6th International Symposium on Dynamic Games and Applications, July 13-15, 1994, St-Jovite, Quebec, CANADA
- [3.18] M. Tidball and E. Altman, "finite state approximation in stochastic games", International Conference on Game Theory, Stony Brook, New York, July, 1993.
- [3.19] E. Altman, "The Baccelli-Foss Saturation Rule for stability for continuous time input processes", *Proceedings of 32nd Allerton Conference on Communication, control and computing*, Allerton House, University of Illinois at Urbana-Champaign, Illinois, pp. 396-403, September 1994.
- [3.20] E. Altman and A. Jean-Marie, "The distribution of delays of dispersed messages in an M/M/1 queue", proceedings of *IEEE INFOCOM '95 Conference*, Boston, USA, April, 1995.
- [3.21] E. Altman and T. Başar, "Optimal Rate Control for High Speed Telecommunication Networks", *34th IEEE Conference on Decision and Control*, December 1995, New Orleans, Louisiana, (invited paper).
- [3.22] E. Altman, F. Boccara, J. Bolot, P. Nain, P. Brown, D. Collange and C. Fenzy, "Analysis of the TCP/IP Flow Control Mechanism in High-Speed Wide-Area Networks", *IEEE Conference on Decision and Control*, December 1995, New Orleans, Louisiana, (invited paper), pp. 368-373.
- [3.23] E. Altman and T. Başar, "Optimal Rate Control for High Speed Telecommunication Networks: the case of delayed information", First Workshop on ATM Traffic Management, WATM'95, IFIP, WG.6.2 Broadband Communication, Paris, pp. 115-122, December 1995.
- [3.24] O. Ait-Hellal, E. Altman and T. Başar, "Rate based flow control with bandwidth information", (invited paper) the proceedings of the *35th IEEE Conference on Decision and Control*, Kobe, Japan, Dec. 1996.
- [3.25] Z. Pan, E. Altman and T. Başar, "Robust Adaptive Flow Control in High Speed Telecommunication Networks", (invited paper) *Proc. of the 35th IEEE Conference on Decision and Control*, Kobe, Japan, Dec. 1996.
- [3.26] P. Shi, V. Gaitsgory and E. Altman, "Optimization for A Class of Nonlinear Stochastic Hybrid Systems" (invited paper) the proceedings of the *35th IEEE Conference on Decision and Control*, Kobe, Japan, Dec. 1996.
- [3.27] O. Ait-Hellal and E. Altman, "Evaluation of TCP-Vegas: Analytic Approach and Comparison to TCP-Reno", JDIR'96 (Journées Doctorales Informatique & Réseaux) ENST, pp. 7.1-7.6, Paris, France, Sep 11-13 1996.
- [3.28] O. Ait-Hellal and E. Altman, "Problems in TCP Vegas and TCP Reno", DNAC Congress (De Nouvelles Architectures pour les Communications), UVSQ, Paris, France, December 3-5, 1996.
- [3.29] E. Altman, E. A. Feinberg and A. Schwartz, "Weighted discounted stochastic games with perfect information", (invited paper), 7th International Symposium on Dynamic Games and Applications, Kanagawa, Japan, Dec. 1996.
- [3.30] E. Altman and A. Schwartz, "Constrained Markov Games: Nash Equilibria", (invited paper), 7th International Symposium on Dynamic Games and Applications, Kanagawa, Japan, Dec. 1996.
- [3.31] E. Altman, T. Başar, Z. Pan, "Piecewise-Deterministic Differential Games with Hybrid Controls", 7th International Symposium on Dynamic Games and Applications, Kanagawa, Japan, Dec. 1996.
- [3.32] E. Altman, T. Başar, Z. Pan, "Admission and flow control in telecommunication networks as a hybrid control problem" *Proc. 1996 Conference on Information Sciences and Systems*, vol: II, pp. 705-710, Princeton, NJ, 1996.
- [3.33] O. Ait-Hellal and E. Altman, "Analysis of TCP Vegas and TCP Reno", *IEEE International Conference on Communications (IEEE ICC'97)*, Montreal, 8-12 June 1997.
- [3.34] E. Altman and T. Başar, "Iterative computation of Nash equilibria in differential games with switching dynamics", *16th International Symposium on Mathematical Programming*, Lausanne, Switzerland, August (24-29) 1997.
- [3.35] O. Ait-Hellal and E. Altman, D. Elouadghiri, M. Erramdani, N. Mikou, "Performance of TCP/IP: the case of two Controlled Sources", *Proceedings of the International Conference for Computer Communications - ICC'97*, pp. 469-477, Cannes, France, November 19-21, 1997.
- [3.36] E. Altman and T. Başar, "Multi-user rate-based flow control: distributed game-theoretic algorithms", *Proc. of the 36th IEEE Conference on Decision and Control*, San Diego, California, Dec. 1997.
- [3.37] E. Altman, T. Başar and R. Srikant, "Multi-user rate-based flow control with action delays: a team-theoretic approach", *Proc. of the 36th IEEE Conference on Decision and Control*, San Diego, California, Dec. 1997.
- [3.38] O. Ait Hellal, E. Altman, D. Elouadghiri and M. Erramdani, "Performance Evaluation of the Rate-Based Flow Control for ABR Service", Second IFIP workshop on traffic management and synthesis of ATM networks. Montreal, Canada, Sept. 24-26 1997.
- [3.39] M. Tidball, O. Pourtallier and E. Altman, "Finite state approximations in dynamic zero-sum games", *Proc. of the 36th IEEE Conference on Decision and Control*, San Diego, California, Dec. 1997.
- [3.40] E. Altman, T. Başar and R. Srikant, "Robust Rate Control for ABR Sources" *IEEE INFOCOM*, San Francisco, California, USA, March 29 - April 2, 1998.

- [3.41] E. Altman, A. Orda and N. Shimkin, "Bandwidth allocation for Guaranteed versus Best Effort service categories" *IEEE INFOCOM*, pp. 617-624, San-Francisco, California, USA, March 29 - April 2, 1998.
- [3.42] A. S. Nowak and E. Altman, "epsilon-Nash equilibria in stochastic games with uncountable state space and unbounded cost", *Proceedings of the 8th International Symposium on Dynamic Games and Applications*, July, Maastricht, The Netherlands, 1998.
- [3.43] E. Altman, E. Başar, T. Jiménez and N. Shimkin, "Routing in networks: distributed game-theoretic algorithms" *Proceedings of the 8th International Symposium on Dynamic Games and Applications*, July, Maastricht, The Netherlands, 1998. Also: Technical report EE-1179, Department of Electrical Engineering, Technion, November 1998.
- [3.44] E. Altman, E. Feinberg, J. Filar, V. Gaitsgory, "Perturbed zero-sum games", *Proceedings of the 8th International Symposium on Dynamic Games and Applications*, July, Maastricht, The Netherlands, 1998.
- [3.45] E. Altman and H. J. Kushner, "Admission Control for Combined Guaranteed Performance and Best Effort Communications Systems Under Heavy Traffic", *Proc. of the 37th IEEE Conference on Decision and Control*, Dec. '98, Tampa, Florida, USA.
- [3.46] E. Altman, T. Jiménez and G. Koole, "On optimal call admission control", *Proc. of the 37th IEEE Conference on Decision and Control*, Dec. '98, Tampa, Florida, USA.
- [3.47] E. Altman, B. Gaujal, A. Hordijk, G. Koole, "Optimal admission, routing and service assignment control: the case of single buffer queues" *Proc. of the 37th IEEE Conference on Decision and Control*, Dec. '98, Tampa, Florida, USA.
- [3.48] E. Altman, B. Gaujal, A. Hordijk, "Regularity for admission control comparisons", *Proc. of the 37th IEEE Conference on Decision and Control*, Dec. '98, Tampa, Florida, USA.
- [3.49] G. Alpan, E. Altman, H. Magroun, and D. Kofman, "Call Admission Control in the presence of Point-to-Multipoint Best Effort Connections", *IEEE ICC'99*, Vancouver, Canada, June, 1999.
- [3.50] O. Ait-Hellal, E. Altman, "Performance Evaluation of the Rate-Based Flow Control Mechanism for ABR Service: Generalization", *IEEE INFOCOM'99*, 819-826, New-York, March. 1999.
- [3.51] E. Altman, T. Başar and R. Srikant, "A team-theoretic approach to congestion control", E. Altman, T. Başar and R. Srikant. A team-theoretic approach to congestion control. *Proc. 14th IFAC Congress*, vol. J, pp. 259-264, Beijing, P.R. China, July 5-9, 1999.
- [3.52] C. Barakat and E. Altman, "Analysis of TCP in networks with small buffering capacity and large bandwidth-delay product", *Proceedings of Sigmetrics*, Santa Clara, California, June 18-21, 2000.
- [3.53] H. Kameda, E. Altman and T. Kozawa, "A case where a paradox like Braess's occurs in the Nash equilibrium but does not occur in the Wardrop equilibrium - a situation of load balancing in distributed computer systems", *Proc. of the 38th IEEE Conference on Decision and Control*, Phoenix, Arizona, USA, Dec. 1999.
- [3.54] C. Barakat, N. Chaher, W. Dabbous, and E. Altman, "Improving TCP/IP over Geostationary Satellite Links", *proceedings of IEEE Globecom*, Rio, Brazil, December 1999.
- [3.55] C. Barakat and E. Altman, "Analysis of TCP with several bottleneck nodes", *proceedings of IEEE Globecom*, Rio, Brazil, December 1999.
- [3.56] O. Ait-Hellal E. Altman and T. Başar, "A robust identification algorithm for traffic models in telecommunications", *Proc. of the 38th IEEE Conference on Decision and Control*, Phoenix, Arizona, USA, Dec. 1999.
- [3.57] E. Altman, Tamer Başar, R. Srikant "Nash Equilibria for Combined Flow Control and Routing in Networks: Asymptotic Behavior for a Large Number of Users", *Proc. of the 38th IEEE Conference on Decision and Control*, Phoenix, Arizona, USA, Dec. 1999.
- [3.58] E. Altman, S. Bhulai, B. Gaujal and A. Hordijk", "Optimal Routing to M parallel queues with no buffers", *Proceedings of the 33rd Allerton Conference on Communication, Control, and Computing*, Illinois, USA, Sept. 1999.
- [3.59] E. Altman and H. Kushner, "Control of Polling in Presence of Vacations in Heavy Traffic with Applications to Satellite and Mobile Radio Systems", *Proceedings of the 33rd Allerton Conference on Communication, Control, and Computing*, Illinois, USA, Sept. 1999.
- [3.60] E. Altman, G. Koole and T. Jiménez, "Comparing tandem queueing systems and their fluid limits", *Proceedings of the 33rd Allerton Conference on Communication, Control, and Computing*, Illinois, USA, Sept. 1999.
- [3.61] O. Ait Hellal, E. Altman, A. Jean-Marie and I.A. Kurkova, "On loss probabilities in presence of redundant packets and several traffic sources", *Proc. Performance'99*, Istanbul, Turkey, October 1999.
- [3.62] E. Altman, T. Başar, T. Jiménez and N. Shimkin, "Competitive routing in networks with polynomial cost", *Proceedings of IEEE INFOCOM*, March, Tel-Aviv, Israel, 2000.
- [3.63] E. Altman, K. Avrachenkov and C. Barakat, "TCP in presence of bursty losses", *Proceedings of Sigmetrics*, Santa Clara, California, June 18-21, 2000.
- [3.64] C. Barakat and E. Altman, "Performance of

- short TCP transfers”, *Proceedings of IFIP-TC6 Networking*, Paris, France, May 14-19, 2000.
- [3.65] E. Altman, K. Avrachenkov and C. Barakat, “A stochastic model of TCP/IP with stationary random losses”, *ACM Sigcomm*, Aug. 28 - Sept. 1, Stockholm, Sweden, 2000. (see also INRIA Research Report RR-3824).
- [3.66] H. Kameda, E. Altman, O. Pourtallier, J. Li, Y. Hosokawa, “Paradoxes in Performance Optimization of Distributed Systems”, *Proceedings of SSGRR 2000 Computer and e-business conference*, l’Aquila, Italy, Jul 31 - Aug 6, 2000.
- [3.67] C. Barakat and E. Altman, “On ACK filtering on a slow reverse channel”, *proceedings of the first international workshop on Quality of future Internet Services (Qofis)*, Berlin, Germany, September 2000. (Best student paper award).
- [3.68] C. Barakat and E. Altman, “A Markovian Model for TCP analysis in a differentiated services network”, *proceedings of the first international workshop on Quality of future Internet Services (Qofis)*, Berlin, Germany, September 2000.
- [3.69] P. Dube and E. Altman, “On Fluid Analysis of Queues with Selective Message Discarding Policies”, *Proceedings of the Allerton Conf.*, Illinois, October 2000.
- [3.70] E. Altman, K. Avrachenkov, C. Barakat, P. Dube, “TCP over a multi-state Markovian Path”, *Proceedings of the International Conference on Performance and QoS of Next Generation Networks*, P& Q Net 2000, Nov. 27-30, 2000, Nagoya, Japan.
- [3.71] E. Altman, C. Barakat, E. Laborde, P. Brown and D. Collange, “Fairness Analysis of TCP/IP”, *Proceedings of IEEE Conference on Decision and Control (CDC’00)*, Sydney, Australia, December 2000.
- [3.72] E. Altman, B. Gaujal, A. Hordijk, “Simplex convexity, with application to open loop stochastic control in networks”, *Proceedings of IEEE Conference on Decision and Control (CDC’00)*, Sydney, Australia, December 2000.
- [3.73] R. El-Azouzi, E. Altman and V. Gaitsgory, “The averaging principle for perturbations of continuous time control problems with fast controlled jump parameters”, *Proceedings of the IEEE Conference on Decision and Control (CDC’00)*, Sydney, Australia, Dec. 2000.
- [3.74] H. Kameda, E. Altman and O. Pourtallier, “Analytic study of mixed optima in symmetric distributed computer systems”, *Proceedings of the 9th International Symposium on Dynamic Games and Applications*, Adelaide, Australia, Dec. 18-21, 2000.
- [3.75] R. El-Azouzi, M. Abbad and E. Altman, “A Taylor series expansion for H-infinity control of perturbed Markov jump linear systems”, *Proceedings of the 9th International Symposium on Dynamic Games and Applications*, Adelaide, Australia, Dec. 18-21, 2000.
- [3.76] T. Boulogne, E. Altman, O. Pourtallier, “On the convergence to equilibrium in a problem of parallel computing”, *Proceeding of the 9th International Symposium on Dynamic Games and Applications*, Adelaide, Australia, Dec. 2000.
- [3.77] T. Boulogne, E. Altman, H. Kameda, O. Pourtallier, “Mixed equilibrium for multiclass routing games”, *Proceeding of the 9th International Symposium on Dynamic Games and Applications*, Adelaide, Australia, Dec. 2000.
- [3.78] E. Altman, K. Avratchenkov, C. Barakat and R. Nuñez Queija, “State dependent M/G/1 queueing analysis for congestion control in data networks”, *IEEE INFOCOM*, Anchorage, Alaska, April 2001.
- [3.79] E. Altman, C. Barakat, and V. Ramos-Ramos, “Queueing Analysis of Simple FEC Schemes for IP Telephony”, *Proceedings of IEEE INFOCOM*, Anchorage, Alaska, April 2001.
- [3.80] P. Dube and E. Altman, “Queueing and Fluid Analysis of Partial Message Discard Policy”, *Proceedings of 9th IFIP Working Conference on Performance Modelling and Evaluation of ATM and IP Networks*, June 27-29, 2001, Budapest, Hungary.
- [3.81] C. Barakat and E. Altman, “Bandwidth Trade-off between TCP and Link-Level FEC”, *Proceedings of IEEE International Conference on Networking*, Colmar, France, July 2001.
- [3.82] E. Altman, R. El Azouzi and O. Pourtallier, “Avoiding Paradoxes in Routing Games”, *Proceedings of the 17th International Teletraffic Congress*, Salvador da Bahia, Brazil, September 24-28, 2001.
- [3.83] P. Dube and E. Altman, “On the Workload Process in a Fluid Queue with Bursty Input and Selective Discarding”, *Proceedings of the 17th International Teletraffic Congress*, Salvador da Bahia, Brazil, September 24-28, 2001.
- [3.84] E. Altman, K. Abratchenkov, C. Barakat and R. Nunez Queija, “TCP modeling in the presence of nonlinear window growth”, *Proceedings of the 17th International Teletraffic Congress*, Salvador da Bahia, Brazil, September 24-28, 2001.
- [3.85] E. Altman, C. Barakat, and V. Ramos-Ramos, “On the utility of FEC mechanisms for audio applications”, *Proceedings of QofIS’2001, Second International Workshop on Quality of future Internet Services*, Coimbra, Portugal, 24-26 Sept. 2001.
- [3.86] E. Altman and H. Kameda, “Equilibria for Multiclass Routing in Multi-Agent Networks”, *40th IEEE Conference on Decision and Control*, Orlando, Florida, U.S.A., Dec. 2001.
- [3.87] T. Alpcan, T. Başar, R. Srikant and E. Altman, “CDMA uplink power control as a noncooperative game”, *40th IEEE Conference on Decision and Control*, Orlando, Florida, U.S.A., Dec. 2001.

- [3.88] R. El-Azouzi and E. Altman "Traffic Equilibrium in competitive routing with hard side constraints", 39th Annual Allerton Conference on Communication, Control, and Computing 3-5 October, 2001
- [3.89] P. Dube and E. Altman, "Fluid Analysis of Early Message Discarding Policy under Heavy Traffic", *IEEE INFOCOM*, New-York, USA, June 2002.
- [3.90] S. Alouf, E. Altman and P. Nain, "Optimal on-line estimation of the size of a dynamic multicast group", *IEEE INFOCOM*, New-York, USA, June 2002.
- [3.91] E. Altman, K. Avrachenkov, C. Barakat, "TCP Network Calculus: The case of large delay-bandwidth product", *IEEE INFOCOM*, New-York, USA, June 2002.
- [3.92] P. Dube and E. Altman, "Queueing Analysis of Early Message Discarding Policy", *IEEE ICC*, New York City, USA, April 2002.
- [3.93] P. Dube and E. Altman, "Utility Analysis of Simple FEC Schemes for Voice over IP," *Proc. of IFIP Networking 2002*, May 19-24 2002, Pisa, Italy.
- [3.94] P. Dube, O. Ait-Hellal, E. Altman, "On Loss Probabilities in Presence of Redundant Packets with Random Drop," *Proc. of IFIP Networking 2002*, May 19-24 2002, Pisa, Italy. (Best student paper award.)
- [3.95] K. Abratchenkov, U. Ayesta, E. Altman, P. Nain, C. Barakat "The effect of router buffer size on the TCP performance", in the Proceedings of LONIIS workshop on Telecommunication Networks and Teletraffic Theory, St.Petersburg, Russia, pp. 116-121, January 2002.
- [3.96] E. Altman, R. El-Azouzi and V. Abramov, "Non-Cooperative Routing in Loss Networks", INRIA Research Report RR-4405. The Proceedings of Performance, Rome, Sept. 2002.
- [3.97] E. Altman, T. Jimenez, R. Nunez Queija, "Analysis of two competing TCP/IP connections", CWI Research Report PNA-R0118, 2001. Proceedings of Performance, Rome, Sept 2002.
- [3.98] E. Altman, R. El Azouzi and O. Pourtallier, "Properties of Equilibria in Competitive Routing with Several Users types", Proceedings of 41th IEEE CDC, USA, Dec. 2002.
- [3.99] E. Altman, J. Galtier, C. Touati, "Fair power and transmission rate control in wireless networks", IEEE Globecom, November 2002, Taipei, Taiwan.
- [3.100] E. Altman, "Capacity of Multi-service CDMA Cellular Networks with Best-Effort Applications", Proceedings of MOBICOM, Atlanta, Georgia, USA, Sept. 23-28, 2002.
- [3.101] E. Altman, J. Galtier, C. Touati, "Utility Based Fair Bandwidth Allocation", Proceedings of the IASTED International Conference on Networks, Parallel and Distributed Processing and Applications (NPDPA 2002), October 2002, Japan.
- [3.102] E. Altman and R. Hassin, "Non-Threshold Equilibrium for Customers Joining an M/G/1 Queue", Tenth International Symposium on Dynamic Game and Applications, Saint-Petersburg, Russia, July, 2002.
- [3.103] E. Altman, K. E. Avrachenkov and J. A. Filar, "An Asymptotic Simplex Method and Markov Decision Processes", *Tenth International Symposium on Dynamic Game and Applications*, Saint-Petersburg, Russia, July, 2002.
- [3.104] T. Toker, E. Altman, J. Galtier, C. Touati, I. Buret, B. Fabre, C. Guiraud, "Slot Allocation in a TDMA Satellite System: Simulated Annealing Approach", 21 AIAA International Communications Satellite System Conference (ICSSC), Yokohama, Japan, Apr. 2003.
- [3.105] C. Touati, E. Altman, J. Galtier, B. Fabre, I. Buret, "Radio Planning in Multibeam Geostationary Satellite Networks", 21 AIAA International Communications Satellite System Conference (ICSSC), Yokohama, Japan, Apr. 2003.
- [3.106] E. Altman, R. El-Azouzi and T. Jimenez, "Slotted Aloha as a stochastic game with partial information", Proceedings of WiOpt'03: Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks, March 3-5, 2003, INRIA Sophia-Antipolis, France.
- [3.107] P. Dube and E. Altman, "Goodput Analysis of a Fluid Queue with Selective Burst Discarding and a Responsive Bursty Source", Proceedings of *IEEE INFOCOM'03*, San Francisco, USA, April 2003.
- [3.108] N. Hegde and E. Altman, "Capacity of multi-service WCDMA Networks with variable GoS", Proc. of IEEE WCNC, New Orleans, Louisiana, USA, 16-20 March, 2003.
- [3.109] E. Altman, "A stateless approach for improving TCP performance using Diffserv", *Proceedings of the 18th International Teletraffic Congress*, Berlin, 31 Aug - 5 Sept, 2003.
- [3.110] E. Altman and T. Jiménez, "Simulation analysis of RED with short lived TCP connection", *Proceedings of the 18th International Teletraffic Congress*, Berlin, 31 Aug - 5 Sept, 2003.
- [3.111] R. El-Azouzi, E. Altman, and L. Wynter, "Telecommunications Network Equilibrium with Price and Quality-of-Service Characteristics" *Proceedings of the 18th International Teletraffic Congress*, Berlin, 31 Aug - 5 Sept, 2003.
- [3.112] C. Touati, E. Altman and J. Galtier, "Semi-Definite Programming for Bandwidth Allocation in Communication Networks", *Proceedings of the 18th International Teletraffic Congress*, Berlin, 31 Aug - 5 Sept, 2003.
- [3.113] A. Jean-Marie, P. Dube, D. Artiges and E. Altman, "Decreasing Loss Probabilities by Redundancy and

- Interleaving: a queueing analysis”, *Proceedings of the 18th International Teletraffic Congress*, Berlin, 31 Aug - 5 Sept, 2003.
- [3.114] U. Ayesta, K. Avrachenkov, E. Altman, C. Barakat and P. Dube, ”Multilevel Approach for Modeling Short TCP Sessions”, *Proceedings of the 18th International Teletraffic Congress*, Berlin, 31 Aug - 5 Sept, 2003.
- [3.115] E. Altman and T. Jimenez, ”Improving TCP over multihop networks using delayed ACK”, proceedings of MADNET’03, Sophia-Antipolis, March 2003.
- [3.116] E. Altman and T. Jimenez, ”Novel delayed ACK techniques for improving TCP performance in multihop wireless networks”, PWC (Personal Wireless Communications), Sept. 2003, Venice, Italy; LNCS, Springer Berlin/Heidelberg pp. 237-250, Volume 2775/2003.
- [3.117] R. El Azouzi, and E. Altman, ”Queueing Analysis of Link-Layer Losses in Wireless Networks”, PWC (Personal Wireless Communications) 2003, September 23-25, Venice, Italy.
- [3.118] B. J. Prabhu, E. Altman, K. Avrachenkov and J. Abadia Dominguez, ”A simulation study of TCP performance over UMTS”, IEEE VTC2003-fall, Orlando, USA, October 2003.
- [3.119] S. Alouf, E. Altman, C. Barakat, P. Nain, ”Estimating membership in a multicast session”, SIGMETRICS pp 250-260, 2003.
- [3.120] D. Barman, I. Matta, E. Altman, R. El Azouzi, ”TCP Optimization through FEC, ARQ and Transmission Power Tradeoffs”, 2nd international Conference on Wired/Wireless Internet Communications WWIC 2004 Frankfurt (Oder), Germany, February 05 - 07, 2004.
- [3.121] E. Altman, T. Jimenez, D. Kofman, ”DPS queues with stationary ergodic service times and the performance of TCP in overload”, Proceedings of IEEE Infocom, Hong-Kong, March 2004.
- [3.122] E. Altman, C. Barakat and V. Ramos-Ramos, ”Analysis of AIMD protocols over paths with variable delay”, Proceedings of IEEE Infocom, Hong-Kong, March 2004.
- [3.123] E. Altman, D. Barman, R. El Azouzi, D. Ros and B. Tuffin, ”Differentiated Services: A Game-Theoretic Approach”, *Proceedings of Networking 2004*, Athens, Greece, May 9-14, 2004.
- [3.124] E. Altman, T. Başar and N. Malouch, ”The role of information update in flow control” *Proceedings of Networking 2004*, Athens, Greece, May 9-14, 2004.
- [3.125] E. Altman, R. El Azouzi, D. Ros and B. Tuffin, ”Loss Strategies for Competing AIMD Connections”, *Proceedings of Networking 2004*, Athens, Greece, May 9-14, 2004.
- [3.126] E. Altman, D. Barman, R. El Azouzi and T. Jimenez, ”A game theoretic approach for delay minimization in slotted Aloha”, Proceedings of IEEE ICC, Paris, 20-24 June, 2004.
- [3.127] D. Miorandi and E. Altman, ”Connectivity in Ad-Hoc Networks: a Queueing Theoretical Approach”, Proceedings of Workshop on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOPT 2004), Cambridge, UK. March 24-26 2004.
- [3.128] R. Groenevelt, E. Altman, P. Nain, ”Relaying in Mobile Ad Hoc Networks” Proceedings of Workshop on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOPT 2004), Cambridge, UK. March 24-26 2004.
- [3.129] S. Alouf, E. Altman, C. Barakat, P. Nain, ”On the dynamic estimation of multicast group sizes”, 16th International Symposium on Mathematical Theory of Networks and Systems (MTNS 2004).
- [3.130] R. Marquez, E. Altman and S. Solé-Álvarez, ”Modeling TCP and High Speed TCP: A nonlinear extension to AIMD mechanisms”, 7th IEEE International Conference on High Speed Networks and Multimedia Communications (HSNMC’04) June 30 - July 2, 2004 Toulouse, France.
- [3.131] E. Altman, K. Avrachenkov, C. Barakat, A. A. Kherani and B. J. Prabhu, ”Analysis of scalable TCP”, 7th IEEE International Conference on High Speed Networks and Multimedia Communications (HSNMC’04) June 30 - July 2, 2004 Toulouse, France.
- [3.132] D. Miorandi, A. A. Kherani and E. Altman, ”A queueing model for HTTP traffic over IEEE 802.11 WLANs”, *ITC Specialist Seminar on Performance Evaluation of Wireless and Mobile Systems*, University of Antwerp, Antwerp, Belgium, August 31 - September 02, 2004.
- [3.133] E. Altman, V. S. Borkar and A. A. Kherani, ”Optimal Random Access in Networks with Two-Way Traffic”, The 15th IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC 2004), Barcelona, Spain, 5-8, Sept., 2004.
- [3.134] R. El Khoury and E. Altman, ”Analysis of Scalable TCP”, HET-NETs’04 International working conference on Performance Modelling and Evaluation of Heterogeneous Networks July, West Yorkshire, U.K., 2004.
- [3.135] E. Altman, K. Avrachenkov and B. J. Prabhu, ”A singular perturbation approach to analysing a RED queue”, HET-NETs’04 International working conference on Performance Modelling and Evaluation of Heterogeneous Networks July, West Yorkshire, U.K., 2004.
- [3.136] J. M. Kelif and E. Altman, ”Admission and GoS control in multiservice WCDMA system”, ECUMN’2004, 25-27 October 2004 in Porto, Portugal.
- [3.137] E. Altman, ”On stochastic recursive equations and infinite server queues”, IEEE Infocom, Miami, March 13-17, 2005

- [3.138] R. Groenevelt, E. Altman, "Analysis of Alternating-priority Queueing Models with (Cross) Correlated Switchover Times", IEEE Infocom, Miami, March 13-17, 2005
- [3.139] E. Altman, K. Avrachenkov, A. Kherani, B. Prabhu, "Performance Analysis and Stochastic Stability of Congestion Control Protocols", IEEE Infocom, Miami, March 13-17, 2005
- [3.140] N. Bonneau, M. Debbah, E. Altman and G. Caire, "When to Synchronize in Uplink CDMA", Proceedings of the 2005 IEEE International Symposium on Information Theory, Adelaide, Australia, Sept. 4-9, 2005.
- [3.141] A. Kumar, E. Altman, D. Miorandi, M. Goyal, "New Insights from a Fixed Point Analysis of Single Cell", IEEE Infocom, Miami, March 13-17, 2005
- [3.142] S. Alouf, E. Altman, J. Galtier, J.-F. Lalande, C. Touati, "Quasi-optimal bandwidth allocation for multi-spot MFTDMA satellites", IEEE Infocom, Miami, March 13-17, 2005
- [3.143] D. Miorandi, E. Altman "Coverage and Connectivity of Ad-Hoc Networks in Presence of Channel Randomness", IEEE Infocom, Miami, March 13-17, 2005
- [3.144] E. Altman, K. Avrachenkov, A. A. Kherani and B.J. Prabhu, "Analysis of Scalable TCP in the presence of Markovian Losses", 3rd International Workshop on Protocols for Fast Long-Distance Networks, Lyon, France, February 3,4 2005
- [3.145] R. Venkatesh, A. Kumar and E. Altman, "Fixed point analysis of single cell IEEE 802.11e WLANs: uniqueness, multistability and throughput differentiation", ACM Sigmetrics, June 6-10, 2005, Banff, Alberta, Canada.
- [3.146] J. M. Kelif and E. Altman, "Downlink Fluid Model of CDMA Networks", IEEE 61st Vehicular Technology Conference (VTC 2005 Spring), 29th May - 1st June, Stockholm, Sweden, 2005.
- [3.147] V. M. Ramos-Ramos, C. Barakat and E. Altman, "A Moving Average Predictor for Playout Control in VoIP", Proceedings of the XI International Workshop on Quality of Service (IWQoS). Monterey, CA, USA. June 2003.
- [3.148] E. Altman, A. Kumar, D. Kumar, R. Venkatesh, "Cooperative and Non-Cooperative Control in IEEE 802.11 WLANs", Proceedings of the 19th International Teletraffic Congress, Beijing, 29 August - 2 September, 2005.
- [3.149] E. Altman, N. Bonneau, M. Debbah, G. Caire, "An Evolutionary Game Perspective to ALOHA with power control", Proceedings of the 19th International Teletraffic Congress, Beijing, 29 August - 2 September, 2005.
- [3.150] G. Koukoutsidis, E. Altman, J. M. Kelif, "Fair rate sharing models in a CDMA link with multiple classes of elastic traffic", Proceedings of the 19th International Teletraffic Congress, Beijing, 29 August - 2 September, 2005.
- [3.151] G. Koukoutsidis, E. Altman and J. M. Kelif, "A Non-homogeneous QBD Approach for the Admission and GoS Control in a Multiservice WCDMA System", 13th International Workshop, IWQoS 2005, Passau, Germany, June 21-23, 2005. See *Lecture Notes in Computer Science*, Springer-Verlag, Vol 3552, p.327-340, 2005.
- [3.154] N. Bonneau, M. Debbah, A. Hjørungnes and E. Altman, "Performance of Channel Inversion Schemes for Multi-User OFDMA", 2nd International Symposium on Wireless Communication Systems, ISWCS 2005, (Siena, Italy), September 2005.
- [3.155] E. Altman, J. Galtier and C. Touati, "Fair power and transmission rate control in wireless networks", Third Annual Conference on Wireless On demand Network Systems and Services (WONS), Les Ménuires, France, January 18-20, 2006.
- [3.156] N. Bonneau, M. Debbah, E. Altman and G. Caire, "Spectral Efficiency of CDMA Uplink Cellular Networks" Proceedings of IEEE International Conference on Acoustics, Speech and Signal Processing, Philadelphia, USA, March 2005.
- [3.157] A. Al-Hanbali, P. Nain, and E. Altman, "Performance of Ad Hoc Networks with Two-Hop Relay Routing and Limited Packet Lifetime", First International Conference on Performance Evaluation Methodologies and Tools (Valuetools), Pisa, 2006.
- [3.158] A. Chockalingam, E. Altman, J. V. K. Murthy, and R. Kumar, Cross-layer Design for Optimizing TCP Performance, Proc. IEEE ICC'2005, Seoul, May 2005
- [3.159] E. Altman, D. Barman, B. Tuffin and M. Vojnovic, "Parallel TCP Sockets: Simple Model, Throughput and Validation", *IEEE Infocom*, 2006.
- [3.160] S. Shakkottai, E. Altman and A. Kumar, "The Case for Non-cooperative Multihoming of Users to Access Points in IEEE 802.11 WLANs", *IEEE Infocom*, 2006
- [3.161] A. Al-Hanbali, A. Kherani, R. Groenevelt, P. Nain and E. Altman, "Impact of Mobility on the Performance of Relaying in Ad Hoc Networks", IEEE Infocom, 2006.
- [3.162] A. A. Kherani, R. El-Azouzi and E. Altman, "Stability-throughput tradeoff and routing in multi-hop wireless ad-hoc networks", proceedings of IFIP *Networking*, Coimbra, Portugal, May 15-19, 2006. Received the **Best paper award**.
- [3.163] D. Kumar, A. A. Kherani and E. Altman, "Route lifetime based optimal hop selection in VANETs on Highway an analytical viewpoint", proceedings of IFIP *Networking*, Coimbra, Portugal, May 15-19, 2006.
- [3.164] E. Altman, N. Bonneau and M. Debbah, "Correlated equilibrium in access control for wireless communications",

IFIP *Networking*, Coimbra, Portugal, May 15-19, 2006.

- [3.165] E. Altman, C. Barakat, S. Mascolo, N. Möller and J. Sun, "Analysis of TCP Westwood+ in high speed networks", Proceedings of *PFLDnets: 4th International Workshop on Protocols for Fast Long-Distance Networks*, 2006
- [3.166] A. Kherani, D. Kumar and E. Altman, "A Structural Property of Solutions to Path Optimization Problems in Random Access Networks", Proceedings of the *4th International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt'06)*, Boston, Massachusetts, April 3 - 7, 2006.
- [3.167] D. Kumar, V. Ramaiyan, A. Kumar and E. Altman, "Capacity Optimizing Hop Distance in a Mobile Ad Hoc Network with Power Control", Proceedings of the *4th International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt'06)*, Boston, Massachusetts, April 3 - 7, 2006.
- [3.168] G. Boggia, P. Camarda, A. DALconzo, L.A. Grieco, S. Mascolo, E. Altman, C. Barakat, "Modeling the AIADD Paradigm in Networks with Variable Delays", proceedings of *CoNext*, Lisboa, Portugal, December 2006.
- [3.169] G. Koukoutsidis and E. Altman, Erlang capacity of a CDMA link with transmission rate control, 6th International Conference on Next Generation Teletraffic and Wired/Wireless Advanced Networking (NEW2AN 2006), St. Petersburg, Russia, May-June 2006. Lecture Notes in Computer Science (LNCS), vol. 4003, Y. Koucheryav, J. Harju, V.B. Iversen (Eds.), pp. 177-188, Springer-Verlag GmbH (2006).
- [3.170] J. M. Kelif and E. Altman, "Downlink fluid model of CDMA networks", IEEE 61st Vehicular Technology Conference (VTC 2005 Spring), 29th May - 1st June, Stockholm, Sweden, 2005.
- [3.171] K. Khawam, D. Kofman and E. Altman, "The Weighted Proportional Fair Scheduler", The Third International Conference on Quality of Service in Heterogeneous Wired/Wireless Networks (QShine) 2006, University of Waterloo Waterloo, Ontario, Canada, August 7 - 9, 2006
- [3.172] V. Ramaiyan, A. Kumar and E. Altman, "Jointly Optimal Power Control and Routing for a Single Cell, Dense, Ad hoc Wireless Network", Proceedings of *WiOpt*, (Workshop on Modelling and Optimization in Mobile, Ad Hoc and Wireless Networks) Limasol, Cyprus, April 11-20, 2007,
- [3.173] E. Altman, K. Avratchenkov, G. Miller and B. Prabhu, "Discrete Power Control: Cooperative and Non-Cooperative Optimization", proceedings of IEEE Infocom, Anchorage, Alaska, USA, May 6-12, pp 37-45, 2007.
- [3.174] Dinesh Kumar, Eitan Altman, Jean-Marc Kelif "Globally Optimal User-Network Association in an 802.11 WLAN & 3G UMTS Hybrid Cell", *20th International Teletraffic Congress (ITC 20)*, Ottawa, Canada, 17-21 june, 2007. One of three papers selected for Plenary Presentation.
- [3.175] V. Sharma, Dharmendra, K. Prasad., E. Altman, "Opportunistic Scheduling of Wireless Links", *20th International Teletraffic Congress (ITC 20)*, Ottawa, Canada, 17-21 june, 2007.
- [3.176] Nicolas Bonneau, Merouane Debbah, Eitan Altman, Are Hjorungnes, "Wardrop Equilibrium for CDMA Systems", The 3rd workshop on Resource Allocation in Wireless Networks (Rawnet), Limassol, Cyprus, April 16th, 2007.
- [3.177] S. Yousefi, E. Altman and R. El-Azouzi, "Study of connectivity in vehicular ad hoc networks", Workshop on Spatial Stochastic Models in Wireless Networks (SpaSWiN), April 16, 2007, Limassol, Cyprus.
- [3.178] E. Altman, Y. Hayel and H. Kameda, "Evolutionary dynamics and potential games in non-cooperative routing", proceedings of the workshop "Wireless Networks: Communication, Cooperation and Competition (WNC3 2007)", April 16, 2007, Limassol, Cyprus.
- [3.179] Eitan Altman, Konstantin Avrachenkov, Chadi Barakat, Kartikeya Chandrayana, "Multilevel approach for the modeling of large TCP/IP networks", invited to the Symposium on Recent Advances for Modeling and Simulation Tools for Communications Networks and Services, organized by COST 285 in Surrey, UK, 2007.
- [3.180] Eitan Altman, Konstantin Avrachenkov, Andrey Garnae, "A Jamming game in wireless networks with transmission cost", *Net-COOP*, Avignon, France, June 5-7, 2007. **2nd best paper Award.**
- [3.181] Dinesh Kumar, Eitan Altman and Jean-Marc Kelif, "User-Network Association in an 802.11 WLAN & 3G UMTS Hybrid Cell: Individual Optimality", Sarnoff, 2007.
- [3.182] Niels Moller, Chadi Barakat, Konstantin Avrachenkov, and Eitan Altman, "Inter-protocol fairness between TCP New Reno and TCP Westwood+", in proceedings of *NGI 2007* (Conference on Next Generation Internet Networks), Trondheim, Norway, May 2007.
- [3.183] Alberto Suarez, Merouane Debbah, Laura Cottatellucci and Eitan Altman, 'Optimal decoding order under target rate constraints', The VIII IEEE Workshop on Signal Processing Advances in Wireless Communications, Helsinki, Finland, June 17-20, 2007.
- [3.184] Saleh Yousefi, Eitan Altman, Rachid El-Azouzi and Mahmood Fathy, "Connectivity in vehicular ad hoc networks in presence of wireless mobile base-stations", Proceedings of the 7th International Conference on TIS Telecommunications, June 6-8, Sophia-Antipolis, France, 2007.
- [3.185] Eitan Altman, Arzad A. Kherani, Pietro Michiardi and Refik Molva, Non-cooperative Forwarding in Ad-hoc Networks, Proceedings of *Networking 2005*, LNCS 3462, pp. 486-498, 2005.

- [3.186] Jean-Marc Kelif, Eitan Altman, "Cellular network with continuum priority set", 2nd International Conference on Performance Evaluation Methodologies and Tools (ValueTools), Nantes, France, 23-25 Oct., 2007.
- [3.187] Eitan Altman, El-Azouzi Rachid, Richard Marquez, David Ros, Bruno Tuffin, "Stackelberg Approach for Pricing Differentiated Services", 2nd International Conference on Performance Evaluation Methodologies and Tools (ValueTools), Nantes, France, 23-25 Oct., 2007.
- [3.188] Tijani Chahed, Eitan Altman, Salah Eddine Elayoubi, "Joint uplink and downlink capacity considerations in admission control in multiservice CDMA/HSDPA systems", 2nd International Conference on Performance Evaluation Methodologies and Tools (ValueTools), Nantes, France, 23-25 Oct., 2007.
- [3.189] E. Altman, K. Avrachenkov, N. Bonneau, M. Debbah, R. El-Azouzi and D. Sadoc Menasche, "Constrained Stochastic Games in Wireless Networks" IEEE Globecom General Symposium, Washington D.C. 2007. Received the **Best paper award**.
- [3.190] Hamidou Tembine, Eitan Altman and Rachid El-Azouzi, "Delayed Evolutionary Game Dynamics applied to the Medium Access Control", A Workshop on Socially and Biologically Inspired Wired and Wireless Networks (BIONETWORKS), Pisa, Italy (In Conjunction with the 4th IEEE International Conference on Mobile Ad-Hoc and Sensor Systems MASS 2007). 8 Oct, 2007.
- [3.191] Eitan Altman, Pierre Bernhard, Merouane Debbah, Alonso Silva, "Continuum Equilibria for Routing in Dense Ad-Hoc Networks", 45th Allerton Conference on Communication, Control and Computing, Illinois, USA, Sept. 26 - Sept. 28, 2007.
- [3.192] Eitan Altman, Konstantin Avrachenkov and Andrey Garnaev, "Closed form solutions for water-filling problem in optimization and game frameworks", The First International Workshop on Game theory for Communication networks (GameComm), 22 October 2007, Nantes, France
- [3.193] Tembine Hamidou, Eitan Altman, El-Azouzi Rachid, Yezekael Hayel, "Multiple Access Game in Ad-hoc Network", The First International Workshop on Game theory for Communication networks (GameComm), 22 October 2007, Nantes, France.
- [3.194] Eitan Altman, Saswati Sarkar and Eilon Solan, "Constrained Single-Controller Stochastic Games", International Workshop on Tools for solving Structured Markov Chains (SMCtools) Nantes, France, October 26, 2007.
- [3.195] Tijani Chahed, Eitan Altman, Salah Eddine Elayoubi, "On Design of TDD for Joint Uplink and Downlink Resource Allocation in OFDMA-Based WiMax", Proc. 68th IEEE Vehicular Technology Conference (VTC 2008-Fall), Calgary, Canada, Sept. 21-24, 2008.
- [3.196] Eitan Altman and Yezekael Hayel, "A Stochastic Evolutionary Game Approach to Energy Management in a Distributed Aloha Network", IEEE INFOCOM, Phoenix, Arizona, 15-17 April, 2008.
- [3.197] E Altman, T. Jimenez, N. Vicuna, R. Marquez, "Coordinated games over an interference channel", to appear in WNC3, 2nd International Workshop on Wireless Networks: Communication, Cooperation and Competition, April 4, Berlin, 2008.
- [3.198] E. Altman, V. Kamble and H. Kameda, "A Braess type paradox in interference channels", Physicomnet workshop, Berlin, April 4, 2008.
- [3.199] E. Altman, R. El-Azouzi, Y. Hayel and H. Tembine, "An Evolutionary Game approach for the design of congestion control protocols in wireless networks", Physicomnet workshop, Berlin, April 4, 2008.
- [3.200] Ralph El-Khoury, Rachid El-Azouzi and Eitan Altman, "Delay analysis for real-time streaming media in multi-hop ad hoc networks", WiOpt, (Workshop on Modelling and Optimization in Mobile, Ad Hoc and Wireless Networks) 1-3 Berlin, April 2008.
- [3.201] Saswati Sarkar, Eitan Altman, Rachid El-Azouzi and Yezekael Hayel, "Information Concealing games", Infocom symposium, 14 April 2008.
- [3.202] Eitan Altman, Konstantin Avrachenkov and Andrey Garnaev, "Closed form solutions for symmetric water filling games", Infocom, April, Phoenix, Arizona, 15-17 April, 2008.
- [3.203] E. Altman, R. El-Azouzi, Y. Hayel and H. Tembine, "Evolutionary power control games in wireless networks", IFIP Networking, Singapore, 5-9 May, 2008.
- [3.204] Dinesh Kumar, Dhiman Barman, Eitan Altman and Jean-Marc Kelif, "New Cross-Layer Channel Switching Policy for TCP Transmission on 3G UMTS Downlink", *Wireless Telecommunications Symposium*, Pomona, CA, USA, April 24-26, 2008.
- [3.205] Tembine Hamidou, Altman Eitan, El-Azouzi Rachid, Hayel Yezekael, "Evolutionary games with random number of interacting players applied to access control", WiOpt, (Workshop on Modelling and Optimization in Mobile, Ad Hoc and Wireless Networks) Berlin, 1-3 April 2008.
- [3.206] Gaoning He, Gault Sophie, Merouane Debbah, Eitan Altman, "Distributed Power Allocation Game for Uplink OFDM Systems", 2nd International Workshop on Wireless Networks: Communication, Cooperation and Competition (WNC3), Berlin, April 4, 2008.
- [3.207] Ishai Menache, Eitan Altman, "Battery-State Dependent Power Control as a Dynamic Game", WiOpt, (Workshop on Modelling and Optimization in Mobile, Ad Hoc and Wireless Networks) Berlin, 1-3 April 2008.
- [3.208] Eitan Altman, Pierre Bernhard and Alonso Silva, "The Mathematics of Routing in Massively Dense Ad-Hoc Networks", 7th International Conference on Ad-Hoc Networks and Wireless, September 10 - 12, 2008, Sophia

Antipolis, France.

[3.209] Eitan Altman and Yezekael Hayel, "Stochastic Evolutionary Games", *Proceedings of the 13th Symposium on Dynamic Games and Applications*, Wroclaw, Poland, 30th June-3rd July, 2008.

[3.210] Jean-Marc Kelif and Eitan Altman, "Downlink Macrodiversity in Cellular Networks - A Fluid Analysis", PWC 2008 - 13th IFIP International Conference on Personal Wireless Communications, Toulouse, France, Sept 30 - Oct 2, 2008.

[3.211] Hamidou Tembine, Eitan Altman, Rachid El Azouzi, William H. Sandholm, "Evolutionary game dynamics with migration for hybrid power control in wireless communications", 47th IEEE Conference on Decision and Control, Cancun, Mexico, Dec. 9-11, 2008.

[3.212] Konstantin E. Avrachenkov, Eitan Altman, Andrey Garnaev, "Generalized Alpha-Fair Resource Allocation in Wireless Networks", 47th IEEE Conference on Decision and Control, Cancun, Mexico, Dec. 9-11, 2008.

[3.213] Eitan Altman, Konstantin Avrachenkov and Andrey Garnaev, "Transmission power control game with SINR as objective function", NET-COOP, Paris, 8-10 sept, 2008.

[3.214] Hamidou Tembine, Eitan Altman, Rachid El-Azouzi and Yezekael Hayel, "Battery State-dependent Access Control in Solar-powered Broadband Wireless Networks", NET-COOP, Paris, 8-10 sept, 2008.

[3.215] Eitan Altman, Urtzi Ayesta and Balakrishna J. Prabhu, "Load Balancing in Processor Sharing Systems", The Second International Workshop on Game Theory in Communication Networks (GameComm), October 20, 2008, Athens, Greece

[3.216] Hamidou Tembine, Eitan Altman, Rachid El Azouzi and Yezekael Hayel, "Stochastic Population Games with individual independent states and coupled constraints", The Second International Workshop on Game Theory in Communication Networks (GameComm), October 20, 2008, Athens, Greece

[3.217] E. Altman, Y. Hayel, H. Tembine, R. El-Azouzi, "Markov decision Evolutionay Games with Time Average Expected Fitness Criterion", 3rd International Conference on Performance Evaluation Methodologies and Tools, (Valuetools), Athens, Greece, 21-23 October, 2008.

[3.218] Eitan Altman, Konstantin Avrachenkov and Andrey Garnaev. "Fair resources allocation in wireless networks in the presence of a jammer", 3rd International Conference on Performance Evaluation Methodologies and Tools, (Valuetools), Athens, Greece, 21-23 October, 2008.

[3.219] Sara Alouf, Eitan Altman and Amar Prakash Azad, "Analysis of an M/G/1 queue with repeated inhomogeneous vacations - Application to IEEE 802.16e power saving", Fifth International Conference on the Quantitative Evaluation of Systems (QEST), St Malo, France, 14th-17th September 2008.

[3.220] Sara Alouf, Eitan Altman, Amar Prakash Azad, "M/G/1 Queue with Repeated Inhomogeneous Vacations Applied to IEEE 802.16e Power Saving", International Conference on Measurement and Modeling of Computer Systems (SIGMETRICS), June 2-6, 2008, Annapolis, Maryland, USA

[3.221] Alonso Silva, Eitan Altman and Pierre Bernhard, "Numerical solutions of Continuum Equilibria for Routing in Dense Ad-hoc Networks", Inter-Perf 2008: Workshop on Interdisciplinary Systems Approach in Performance Evaluation and Design of Computer & Communication Systems, Athens, Greece, October, 2008.

[3.222] Eitan Altman, Tamer Basar and Francesco De Pellegrini, "Optimal monotone forwarding policies in delay tolerant mobile Ad-Hoc networks", Inter-Perf 2008: Workshop on Interdisciplinary Systems Approach in Performance Evaluation and Design of Computer & Communication Systems, Athens, Greece, October, 2008.

[3.223] Gaoning He, Gault Sophie, Merouane Debbah, Eitan Altman, "Iterative Mercury/Waterfilling for Parallel Multiple Access Channels", Proc. IEEE International Conference on Communications (ICC 2008), pp. 5018-5022, Beijing, China, May 19-23, 2008.

[3.224] Hisao Kameda, Eitan Altman, Corinne Touati and Arnaud Legrand, "Nash Equilibrium Based Fairness", GameNets International Conference on Game Theory for Networks, 13-15 May 2009, Bogaziçi University, Istanbul, Turkey.

[3.225] Eitan altman, Giovanni Neglia, Francesco De Pellegrini, Daniele Miorandi. "Decentralized Stochastic Control of Delay Tolerant Networks", IEEE Infocom, Rio de Janeiro, Brazil, April 19-25, 2009

[3.226] Eitan Altman, Philippe Nain, Jean-Claude Bermond. "Distributed Storage Management of Evolving Files in Delay Tolerant Ad Hoc Networks", IEEE Infocom, Rio de Janeiro, Brazil, April 19-25, 2009

[3.227] Eitan Altman, Francesco De Pellegrini. "Forward Correction and Fountain codes in Delay Tolerant Networks", IEEE Infocom, Rio de Janeiro, Brazil, April 19-25, 2009

[3.228] Eitan Altman, Ishai Menache, Alberto Suarez. "Team and Noncooperative Solutions to Access Control with Priorities", IEEE Infocom, Rio de Janeiro, Brazil, April 19-25, 2009

[3.229] Eitan Altman, Anurag Kumar, Chandramani K. Singh, Rajesh Sundaresan. "Spatial SINR Games Combining Base Station Placement and Mobile Association", IEEE Infocom, Rio de Janeiro, Brazil, April 19-25, 2009

[3.230] Dinil Mon Divakaran, Eitan Altman, Georg Post, Ludovic Noirie, and Pascale Vicat-Blanc Primet, "Analysis of the effects of XLFrames in a network", Networking 2009, May 11-15, 2009, Aachen, Germany.

- [3.231] Sebastien Soudan, Dinil Mon Divakaran, Eitan Altman, Pascale Primet, "Equilibrium in size-based scheduling systems", 16th International Conference on Analytical and Stochastic Modelling Techniques and Applications. Madrid, 9-12 June 2009
- [3.232] Eitan Altman, Vijay Kamble and Alonso Silva, "Stochastic Games with One-Step Delay Sharing Information Pattern with Application to Power Control", GameNets International Conference on Game Theory for Networks, 13-15 May 2009, Bogaziçi University, Istanbul, Turkey.
- [3.233] Eitan Altman and Moshe Haviv, "Broadcasting Forever", GameNets International Conference on Game Theory for Networks, 13-15 May 2009, Bogaziçi University, Istanbul, Turkey.
- [3.234] Hamidou Tembine, Hayel yezekael, Altman Eitan and El-Azouzi Rachid, "Correlated Evolutionarily Stable Strategies in Random Medium Access Control", GameNets International Conference on Game Theory for Networks, 13-15 May 2009, Bogaziçi University, Istanbul, Turkey.
- [3.235] Eitan Altman, Vijay Kamble and Vivek Borkar, "Learning algorithms in routing games", GameNets International Conference on Game Theory for Networks, 13-15 May 2009, Bogaziçi University, Istanbul, Turkey.
- [3.236] Eitan Altman, Konstantin Avrachenkov and Andrey Garnaev, "Jamming in wireless networks: the case of several jammers", GameNets International Conference on Game Theory for Networks, 13-15 May 2009, Bogaziçi University, Istanbul, Turkey.
- [3.237] Gaurav Kasbekar, Eitan Altman and Saswati Sarkar, "A hierarchical spatial game over licensed resources", GameNets International Conference on Game Theory for Networks, 13-15 May 2009, Bogaziçi University, Istanbul, Turkey.
- [3.238] Hamidou Tembine, Jean Yves Le Boudec, Rachid El-Azouzi and Eitan Altman, "Mean Field Asymptotic of Markov Decision Evolutionary Games", GameNets International Conference on Game Theory for Networks, 13-15 May 2009, Bogaziçi University, Istanbul, Turkey.
- [3.239] Eitan Altman, Tamer Basar and Francesco De Pellegrini, "Optimal Control in Two-Hop Relay Routing", IEEE CDC, Beijing, Dec 2009.
- [3.240] Eitan Altman, Konstantin Avrachenkov, Laura Cottatellucci, Merouane Debbah, Gaoning He, Alberto Suarez, "Operating Point Selection in Multiple Access Rate Regions", 21st International Teletraffic Congress (ITC 21) September 15-17, 2009, Paris, France
- [3.241] Dinesh Kumar, Tijani Chahed and Eitan Altman, "Analysis of a Fountain Codes based Transport in an 802.11 WLAN Cell", 21st International Teletraffic Congress (ITC 21) September 15-17, 2009, Paris, France
- [3.242] Veervaruna Kavitha and Eitan Altman, "Queueing in Space: design of Message Ferry Routes in static adhoc networks", 21st International Teletraffic Congress (ITC 21) September 15-17, 2009, Paris, France
- [3.243] Sulan Wong, Eitan Altman and Mouhamad Ibrahim, "P2P Networks: The interplay between legislation and information technology", Networking and Electronic Commerce Research Conference (NAEC) Lake Garda, Italy, October 8-11, 2009 (see also INRIA Research Report 2695).
- [3.244] Eitan Altman, Sulan Wong and Julio Rojas-Mora, "P2P business and legal models for increasing accessibility to popular culture", The International Conference on Digital Business London, UK 17 - 19, June 2009.
- [3.245] E. Altman, S. Ramanath, M. Debbah and V. Kumar, "Optimizing cell size in pico-cell networks", Invited paper, RAWNET/WCNC-3, RAWNET/WNC3, Seoul, South Korea, June 2009.
- [3.246] Sreenath Ramanath, Eitan Altman, Vinod Kumar, Veeraruna Kavitha, Laurent Thomas, "Fair assignment of base stations in cellular networks", 22nd World Wireless Research Forum (WWRF) Conference, May 5-7, 2009, Paris, France
- [3.247] Veeraruna Kavitha, Eitan Altman, Rachid Elazouzi, Rajesh Sundareshan, "Opportunistic scheduling in cellular systems in the presence of non-cooperative mobiles" IEEE CDC 2009, Beijing, China.
- [3.248] M.H.R. Khouzani, Eitan Altman, Saswati Sarkar, "Optimal Quarantining of Wireless Malware Through Power Control" (Invited Paper), Proceedings of the Fourth Symposium on Information Theory and Applications, University of California, San Diego, February 9-14, 2009
- [3.249] Eitan Altman, Anurag Kumar and Yezekael Hayel, "A Potential Game Approach for Uplink Resource Allocation in a Multichannel Wireless Access Network," Proc. ACM/ICST International Workshop on Game Theory for Communication Networks (GAMECOMM), Pisa, Italy, October 2009.
- [3.250] K. Avratchenkov, E. Altman and A. Garnaev. "Alpha-fair resource allocation under incomplete information and presence of a jammer", to appear in the proceedings of NET-COOP, Eurandom, the Netherlands, November 2009.
- [3.251] Eitan Altman, "Competition and cooperation between nodes in Delay Tolerant Networks with Two Hop Routing", proceedings of NET-COOP, Eurandom, the Netherlands, November 2009.
- [3.252] Piotr Wiecek, Eitan Altman and Yezekael Hayel, "An Anonymous Sequential Game Approach for Battery State Dependent Power Control", to appear in the proceedings of NET-COOP, Eurandom, the Netherlands, November 2009.
- [3.253] Dieter Fiems and Eitan Altman, "Markov-modulated stochastic recursive equations with applications to delay-tolerant networks", INRIA Research Report No. 6872, a shorter version will appear in Bioinformatics, Avignon, Dec 2009.

- [3.254] Eitan Altman, "Competition and cooperation between nodes in Delay Tolerant Networks with Two Hop Routing", Proceedings of Netcoop 2009, Eindhoven, The Netherlands, November 2009.
- [3.255] A. Azad, S. Alouf, E. Altman, V. Borkar, G. Paschos, "Vacation Policy Optimization with Application to IEEE 802.16e Power Saving Mechanism". IFIP Wireless Days 2009, Paris, France, 15-17 December 2009. Received the **Best paper award**.
- [3.256] A. Azad, S. Alouf, E. Altman, V. Borkar, G. Paschos, "Optimal Sampling for State Change Detection with Application to the Control of Sleep Mode, in "Proc. of 48th IEEE Conference on Decision and Control (CDC 2009), Shanghai, China", 16-18 December 2009.
- [3.257] A. P. Azad, E. Altman, R. El-Azouzi. From Altruism to Non-Cooperation in Routing Games, in "Proc. of Networking and Electronic Commerce Research Conference (NAEC), Riva del Garda, Italy", 8-11 October 2009.
- [3.258] Mohammad Hossein Rezaei Khouzani, Saswati Sarkar and Eitan Altman, "Maximum Damage Malware Attack in Mobile Wireless Networks", Proceedings of IEEE Infocom, San Diego, USA, March 2010.
- [3.259] Veeraruna Kavitha, Eitan Altman, Rachid El-Azouzi and Rajesh Sundaresan, "Fair scheduling in cellular systems in the presence of noncooperative mobiles", Proceedings of IEEE Infocom, San Diego, USA, March 2010.
- [3.260] Alonso Silva, Eitan Altman, Merouane Debbah and Giuseppa Alfano, "Magnetworks: how mobility impacts the design of mobile networks" Proceedings of IEEE Infocom, San Diego, USA, March 2010.
- [3.261] Sreenath Ramanath, Merouane Debbah, Eitan Altman and Vinod Kumar, "Asymptotic analysis of pre-coded small cell networks". Proceedings of IEEE Infocom, San Diego, USA, March 2010.
- [3.262] Salah Eddine Elayoubi, Eitan Altman, Majed Haddad and Zwi Altman, "A hybrid decision approach for the association problem in heterogeneous networks", Proceedings of IEEE Infocom, San Diego, USA, March 2010.
- [3.263] Vijay Kamble, Eitan Altman, Rachid El-Azouzi and Vinod Sharma, "A Theoretical Framework for Hierarchical Routing Games", Proceedings of IEEE Infocom, San Diego, USA, March 2010.
- [3.264] Eitan Altman, Prakash Azad, Tamer Bassar and Francesco De Pellegrini, "Optimal Activation and Transmission Control in Delay Tolerant Networks", Proceedings of IEEE Infocom, San Diego, USA, March 2010.
- [3.265] Eitan Altman, Francesco De Pellegrini, Lucile Sassatelli, "Dynamic control of Coding in Delay Tolerant Networks", Proceedings of IEEE Infocom, San Diego, USA, March 2010.
- [3.266] Sulan Wong and Eitan Altman, "Restricting Internet Access: Ideology and Technology", Invited paper, The second International Conference on Communication Systems and NETWORKS (COMSNETS), Bangalore, India, January, 2010.

#### (4) Book Chapters

[4.1] E. Altman, V. S. Borkar, A. A. Kherani, P. Michiardi and R. Molva, "Some game-theoretic problems in wireless ad-hoc networks", C. Kostis and O. Spaniol (Eds.), Mobile and Wireless Systems, LNCS 3427, pp. 83-104, 2005.

[4.2] R. El Azouzi, M. El Kamili, E. Altman, M. Abbad and T. Basar, "Combined Competitive Flow Control and Routing in Multi-User Communication Networks with Hard side Constraints", Analysis Control and Optimization of Complex Dynamic Systems, Editors E. K. Boukas and R. P. Malhamé. 2005.

[4.3] D. Miorandi, I. Carreras, E. Altman, L. Yamamoto, I. Chlamtact, "Bio-Inspired Approaches for Autonomic Pervasive Computing Systems", Proc. of BioWire Workshop Notes, 2008.

[4.4] S. Alouf, E. Altman, J. Galtier, J.-F. Lalande, C. Touati, "Quasi-optimal bandwidth allocation for multi-spot MFTDMA satellites", Combinatorial Optimization in Communication Networks, Maggie Cheng, Yingshu Li and Ding-Zhu Du (Eds.) pp. 1 - 41 2005, Kluwer Academic Publishers

[4.5] G. He, M. Debbah and S. Lasaulce and E. Altman, "Resource Allocation Games with Incomplete Information", Game Theory for Wireless Communications and Networking, Auerbach Publications, Taylor and Francis Group, CRC Press, 2009

#### (5) Patents

[5.1] J.M. Kelif, C. Touati, J. Galtier, E. Altman, B. Fourestie, "Procédés et équipements d'allocations de débit de données pour terminaux mobiles de télécommunications", Brevet 04 291 785.6, Date de dépôt 13/7/04.

[5.2] Dinesh Kumar, Dhiman Barman, Eitan Altman, Jean-Marc Kelif, "An Improved TCP based Channel Switching Policy for Common and Dedicated Channels in 3G UMTS Downlink", Filed in European Patent Office by France Telecom R&D, May 2006 number 0651679.