

SELECTED BIBLIOGRAPHY

Books, Thesis

- [B8] F. BACCELLI and B. BLASZCZYSZYN, “Spatial Modeling of Wireless Communications – A Stochastic Geometry Approach”, **Foundations and Trends in Networking**, NOW Publishers, 2009.
- [B7] F. BACCELLI and P. BREMAUD, “ Modélisation et simulation des réseaux de communication” Cours **Ecole Polytechnique**, 2003.
- [B6] F. BACCELLI, A. JEAN-MARIE and I. MITRANI (Ed.) “Quantitative Methods in Parallel Systems”, Basic Research Series, **Springer Verlag**, 1995.
- [B5] F. BACCELLI and P. BREMAUD, “Elements of Queueing Theory”, **Springer Verlag**, Applications of Mathematics, 1994. Second edition 2003.
- [B4] F. BACCELLI, G. COHEN, G. OLSDER and J.P. QUADRAT “Synchronization and Linearity”, **Wiley**, 1992.
- [B3] F. BACCELLI and P. BREMAUD, “Palm probabilities and Stationary Queues”. **Lecture Notes in Statistics No. 41**, Springer Verlag, March 1987.
- [B2] F. BACCELLI, “Modèles Probabilistes de systèmes informatiques distribués”. **Thèse de Doctorat d’Etat**, April 1983, Université Paris-Sud.
- [B1] F. BACCELLI, “Files d’attente avec pannes et applications à la modélisation des systèmes informatiques”. **Thèse de 3e cycle**, janvier 1980, Université Paris-Sud.

Publications in journals

- [J105] F. BACCELLI, A. EL GAMAL and D. TSE, “Interference Networks with Point-to-Point Codes”, to appear in the special issue of **IEEE Tr. Information Theory** on Interference Networks, April 2011, <http://arxiv.org/abs/1102.2868>.
- [J104] J. ANDREWS, F. BACCELLI and R. GANTI, “A Tractable Approach to Cellular Network Modeling”, The 48th Allerton conference on communication, control and computing, 2010, under revision for **IEEE Transactions on Communications**.
- [J103] F. BACCELLI and S. FOSS “Poisson Hail on a Hot Ground.” To appear in the **Journal of Applied Probability (J.A.P.)**, 2011.
- [J102] V. ANANTHARAM and F. BACCELLI, “Information Theoretic Capacity and Error Exponents of Stationary Point Processes with Additive Displacement Noise”, submitted for publ., **Annals of Applied Probability**, 2010, <http://arxiv.org/abs/1012.4924>.
- [J101] F. BACCELLI, N. BAMBOS and N. GAST, “Distributed delay-power control algorithms for bandwidth sharing in wireless networks”, to appear in **IEEE/ACM Transactions on Networking (ToN)**, 2011.

- [J100] F. BACCELLI, B. BLASZCZYSZYN and O. MIRSADEGHI, “Optimal Paths on the Space-Time SINR Random Graph”, arXiv:0911.3721v1, to appear in **Advances in Applied Probability** 2009. <http://fr.arxiv.org/abs/0911.3721>.
- [J99] F. BACCELLI, B. KAUFFMANN and D. VEITCH, “Towards multihop available bandwidth estimation”, **ACM SIGMETRICS Performance Evaluation Review**, Vol. 37, No. 2, pp. 83–84, 2009.
- [J98] F. BACCELLI and T. KONSTANTOPOULOS, “Stationary flows and uniqueness of invariant measures”, **Quart. Appl. Math.**, 2009.
- [J97] F. BACCELLI, S. MACHIRAJU, D. VEITCH and J. BOLOT, “The Role of PASTA in Network Measurement”, **IEEE/ACM Transactions on Networking (ToN)**, Vol. 17, No. 4, p.p. 1340-1353, August 2009.
- [J96] F. BACCELLI, B. BLASZCZYSZYN and P. MUHLETHALER, “Stochastic analysis of spatial and opportunistic Aloha”, **IEEE JSAC, special issue on Stochastic Geometry and Random Graphs for Wireless Networks**, Vol. 27, pp. 1105–1119, 2009.
- [J95] F. BACCELLI, B. BLASZCZYSZYN and P. MUHLETHALER, “Time-Space Opportunistic Routing in Wireless Ad Hoc Networks, Algorithms and Performance”, **the Computer journal**, 2009.
- [J94] F. BACCELLI, B. KAUFFMANN and D. VEITCH, “Inverse problems in queueing theory and Internet probing”, **Queueing Systems**, Vol. 63, Special Issue: 100 Years of Queueing — The Erlang Centennial, 2009.
- [J93] M. HAENGGI, J. ANDREWS, F. BACCELLI, O. DOUSSE and M. FRANCESCHETTI, Introduction of the “Special Issue on Stochastic Geometry and Random Graphs for Wireless Networks”, **IEEE Jsac**, Vol. 27, 2009.
- [J92] F. BACCELLI, G. CAROFIGLIO and S. FOSS, “Proxy Caching in Split TCP: Dynamics, Stability and Tail Asymptotics”, Proceedings **IEEE INFOCOM 2008**. Journal version in “From Semantics to Computer Science, Essays in honour of Gilles Kahn”, Yves Bertot, Gérard Huet and Gordon Plotkin Ed., **Cambridge University Press**, 2009.
- [J91] F. BACCELLI, and McDONALD, D., “A Stochastic Model for the Throughput of Non-Persistent TCP Flows”, Proceedings of *ValueTools 06*, Pisa, October 2006, **Performance Evaluation** Vol. 65, No. 6-7, pp. 512-530, June 2008.
- [J90] S. MACHIRAJU, D. VEITCH, F. BACCELLI and J. BOLOT “Adding Definition to Active Probing” **ACM Computer Communication Review**, Vol. 37, No 2, pp. 17–28, April 2007.
- [J89] F. BACCELLI and C. BORDENAVE, “The Radial Spanning Tree of a Poisson Point Process”, Proceedings of the *43-th Allerton Conference*, 2005, **Annals of Applied Probab.** Vol. 17, No. 1, 305-359, 2007.
- [J88] F. BACCELLI, P. MUHLETHALER and B. BLASZCZYSZYN, “An Aloha Protocol for Multihop Mobile Wireless Networks”, Proceedings of the *Allerton 03 Conference*, Illinois. **IEEE Transactions on Information Theory**. Vol. 52, No. 2, pp. 421–436, Jan. 2006.
- [J87] F. BACCELLI, “Les réseaux de communication” **La Lettre de l’Académie**, No. 19, Spring 2006.
- [J86] F. BACCELLI, A. CHINTREAU, D. DE VLEESCHAUWER and D. Mc DONALD, “HTTP Turbulence”, **Networks and Heterogeneous Media (AIMS)**, Vol. 1 No. 1, March 2006.

- [J85] F. BACCELLI, R. CRUZ and A. NUCCI, "On Wireless Channel Parameters Maximizing TCP Throughput", in **IMA Volume 143 in Mathematics and its Applications**: Wireless Communications. P. Agrawal, M. Andrews, P.J. Fleming, G. Yin, and L. Zhang Ed., Springer, 2006.
- [J84] F. BACCELLI, K.B. KIM and D. McDONALD, "Equilibria of a Class of Transport Equations Arising in Congestion Control," **Queueing Systems**, Volume 55, Number 1, pp. 1–8, January, 2007.
- [J83] F. BACCELLI, S. FOSS, and M. LELARGE, "Tails in Generalized Jackson Networks with Subexponential Service Distributions," **J. Appl. Probab.** 42, no. 2 513-530, 2005.
- [J82] O. DOUSSE, F. BACCELLI and P. THIRAN, "Impact of Interferences on the Connectivity of Ad Hoc Networks", Proceedings *IEEE INFOCOM'03* (nomination for the best paper award), San Francisco, 2003, **IEEE Transactions on Networking**, Volume 13, Number 1, Feb. 2005.
- [J81] F. BACCELLI, A. CHINTREAU, D. DE VLEESCHAUWER and D. Mc DONALD, "A Mean-Field Analysis of Short Lived Interacting TCP Flows", Proceedings of *ACM Sigmetrics'04*, New York, June 2004 and **Performance Evaluation**.
- [J80] F. BACCELLI, S. FOSS, and M. LELARGE, "Asymptotics of Subexponential Max Plus Networks; the Stochastic Event Graph Case, **Queueing Systems**, 46-1,2, 75–96, 2004.
- [J79] E. LETY, T. TURLETTI, and F. BACCELLI, "Cell-based Multicast Grouping in Large-Scale Virtual Environments", **IEEE Transactions on Networking**, Volume 12, Issue 2 247–260, April 2004.
- [J78] F. BACCELLI, B. BLASZCZYSZYN, B. and M. KARRAY, "Up and Downlink Admission and Congestion Control and Maximal Load in Large Homogeneous CDMA Networks" Proceedings *WIOPT'03*, Sophia Antipolis, **ACM MONET**, Vol. 9, No. 6, Dec. 2004.
- [J77] F. BACCELLI, D. Mc DONALD and J. REYNIER, "A Mean-field Model for Multiple TCP Connections Through a Buffer Implementing RED", Proceedings of *IFIP Performance'02*, Rome, sept. 2002. Performance Evaluation, 49, pp. 77-97, 2002.
- [J76] F. BACCELLI and D. HONG, "Interaction of TCP flows as Billiards", Proceedings of **IEEE INFOCOM'03** (nomination for the best paper award), San Francisco, 2003, **IEEE Transactions on Networking** Volume 13 , Issue 4 Pages: 841 - 853, August 2005.
- [J75] F. BACCELLI, B. BLASZCZYSZYN and F. TOURNOIS, "Spatial Averages of Coverage Characteristics in Large CDMA Networks", proceedings of **IEEE INFOCOM'02**, NY, jun. 2002, **ACM WINET (Wireless Networks)**, 8, 2002.
- [J74] F. BACCELLI, "Modéliser le trafic pour mieux le gérer", in *L'explosion des mathématiques*, **SMF-SMAI**, pp. 75-79, jul. 2002.
- [J73] F. BACCELLI and S. FOSS, "Moments and Tails in Monotone-Separable Stochastic Networks", *IFAC Workshop on Max-Plus Algebras and their Applications to Discrete-event Systems, Theoretical Computer Science, and Optimization*, Prague, 2001, **Annals of Applied Probability**, 14-2, pp. 621-650, 2004.
- [J72] F. BACCELLI, D. DE VLEESSCHAUWER, D. HONG, and G. PETIT, "End to End Network Performance Modeling", **Alcatel Telecommunications Review (ATR)**, 3, pp. 223-227, 2001.

- [J71] A. CHINTREAU, F. BACCELLI and C. DIOT, "Impact of Network Delay Variation on Multicast Session Performance with TCP-like Congestion Control", proceedings **IEEE INFOCOM'01**, (nomination for the best paper award), Anchorage, **IEEE Transactions on Networking (ToN)**, 10, pp. 500-513, 2002.
- [J70] F. BACCELLI and D. HONG, "Slotted Jackson Networks", submitted to **Queueing Systems (QUESTA)**, 2001.
- [J69] F. BACCELLI, B. GAUJAL and D. SIMON, "Analysis of Preemptive Periodic Real Time Systems using the (max,plus) Algebra", **IEEE transactions on Control Systems Technology (CST)**, 10-3, pp. 368-380, may 2002.
- [J68] A. AYHAN and F. BACCELLI, "Expansions for Joint Laplace Transform of Stationary Waiting Times in (max,plus)-Linear Systems with Poisson Input", **Queueing Systems (QUESTA)**, 37, pp. 291-328, 2001.
- [J67] F. BACCELLI and B. BLASZCZYSZYN, "On a Coverage Process Ranging from the Boolean Model to the Poisson-Voronoi Tessellation", **Advances in Applied Probability**, 33, pp. 293-323, 2001.
- [J66] F. BACCELLI, A. BOROVKOV and J. MAIRESS, "Asymptotic Results on Infinite Tandem Queueing Networks", **Probability Theory and Related Fields (PRTF)**, 118(3), pp. 365-405, 2000.
- [J65] F. BACCELLI, C. GLOAGUEN and S. ZUYEV, "Superposition of Planar Voronoi Tessellations", **Stochastic Models**, 16(1), 1999 (best paper award, Marcel Neuts Prize).
- [J64] F. BACCELLI and D. Mc DONALD, "Rare Events for Stationary Processes", **Stochastic Processes and their Applications**, 89, pp. 141-173, 2000.
- [J63] F. BACCELLI and D. HONG, "Analyticity of Iterates of Random Non-Expansive Maps", **Advances in Appl. Prob.** 32(1), mar. 2000
- [J62] F. BACCELLI and T. BONALD, "On the Stable Behaviors of Window Flow Control", *36th IEEE Conference on Decision and Control*, San Diego, USA, 1997, **Queueing Systems (QUESTA)**, 32, 195-231, 1999.
- [J61] F. BACCELLI, S. HASENFUSS and V. SCHMIDT, "Differentiability of Functionals of Point Processes", **Stochastic Processes and their Applications**, 81, 299-321, 1999.
- [J60] F. BACCELLI and S. ZUYEV, "Poisson-Voronoi spanning trees with applications to the optimization of communication networks", **Operations Research**, 47(4), 619-631, 1999.
- [J59] F. BACCELLI and D. HONG, "Analytic Expansions of (max,+) Lyapunov Exponents", **Annals of Appl. Prob.**, 10(2), 779-827, 2000.
- [J58] F. BACCELLI, S. SCHLEGEL and V. SCHMIDT, "Asymptotics of Stochastic Networks with Subexponential Service Times", **Queueing Systems (QUESTA)**, 33, 205-23, 1999.
- [J57] R. AGRAWAL, F. BACCELLI and R. RAJAN, "An Algebra for Queueing Networks with Time Varying Service and its Application to the Analysis of Integrated Service Networks", to appear in **Mathematics of Operations Research**.
- [J56] F. BACCELLI, K. TCHOUMATCHENKO and S. ZUYEV, "Markov Paths on the Poisson-Delaunay Graph with applications to routing in mobile networks", 1998, **Adv. Appl. Prob.** 32, 1-18, 2000.
- [J55] F. BACCELLI, S. HASENFUSS and V. SCHMIDT, "Expansions for Steady State Characteristics in (max, +)-linear Systems," Rapport INRIA No. 2785, 1996, **Stochastic Models** 14, 1998.

- [J54] F. BACCELLI and J. MAIRESSE, “Ergodic Theory of Stochastic Operators and Discrete Event Networks”, in **Idempotency**, Cambridge Univ. Press, Vol. 11, pp. 171-208, J. Gunawardena Ed., 1998.
- [J53] F. BACCELLI and S. ZUYEV, “Stochastic Geometry Models of Mobile Communication Networks”, in **Frontiers of Queueing Theory**, Volume 2, pp. 227-244, CRC Press, 1997.
- [J52] F. BACCELLI, S. HASENFUSS and V. SCHMIDT, “Transient and Stationary Waiting Times in $(\max,+)$ -Linear Systems with Poisson Input”, **Queueing Systems (QUESTA)**, 26, 1997.
- [J51] F. BACCELLI, M. KLEIN, M. LEBOURGES and S. ZUYEV, “Stochastic geometry and architecture of communication networks” **Telecommunications Systems**, 7, pp. 209–227, 1997.
- [J50] F. BACCELLI and V. SCHMIDT, “Taylor Series Expansions for Poisson-Driven $(\max,+)$ -linear Systems,” **Annals of Applied Probability**, No. 6-1, pp. 138-185, 1996.
- [J49] F. BACCELLI, S. FOSS and B. GAUJAL, “Free-choice Petri Nets, an Algebraic Approach”, **IEEE Tr. Aut. Contr.**, No. 41-12, pp. 1751-1778, 1996.
- [J48] F. BACCELLI, S. FOSS and J. MAIRESSE, “Jackson Networks under Stationary Ergodic Assumptions, Results and Counter Examples”, **Proceedings of the Royal Statistical Society on Stochastic Networks**, Oxford University Press, 1996.
- [J47] F. BACCELLI, M. KLEIN and S. ZUYEV, “Perturbation Analysis of Functionals of Random Measures.” **Adv. Appl. Probab.**, No. 27, pp. 306-325, 1995.
- [J46] F. BACCELLI and S. FOSS “On the Saturation Rule for the Stability of Queues.” **Journal of Applied Probability (J.A.P.)**, No. 32, pp. 494-507, 1995.
- [J45] F. BACCELLI, B. GAUJAL, A. JEAN-MARIE et J. MAIRESSE, “Analysis of Parallel Processing Systems via the $(\max,+)$ Algebra”, in Quantitative Models in Parallel Systems, Springer Verlag Basic Research Series, pp. 220–236, 1995.
- [J44] F. BACCELLI, W.A. MASSEY and P. WRIGHT, “Determining the Exit Time Distribution for a Closed Cyclic Jackson Network”, **Theoretical Computer Science (T.C.S.)**, Special Issue on Performance Evaluation, No 125, pp. 149–165, 1994.
- [J43] F. BACCELLI and S. FOSS, “Ergodicity of Jackson-type Queueing Networks”, **Queueing Systems (QUESTA)**, No. 17, pp. 5-72, 1994.
- [J42] F. BACCELLI, M. KLEIN, M. LEBOURGES and S. ZUYEV, “Stochastic Geometry and Architecture of Communication Networks” *Selected Proceedings of the third INFORMS telecommunications conference*, et **Annales des Télécommunications**, 51, Vol 3-4, 1996.
- [J41] F. BACCELLI, G. BALBO, R. BOUCHERIE, J. CAMPOS and G. CHIOLA, “Annotated Bibliography on Stochastic Petri Nets”, **CWI Tract 105**, pp. 1-24 (O.J. Boxma and G.M. Koole ed.), 1994.
- [J40] F. BACCELLI, Z. LIU and D. TOWSLEY, “Optimal Scheduling of Parallel Processing Systems with Real Time Constraints”, **Journal of the Association for Computer Machinery (J.A.C.M.)**, No. 5, pp. 1209–1237, 1993.
- [J39] F. BACCELLI, G. COHEN and B. GAUJAL, “Recursive Equations and Basic properties of Timed Petri Nets”, **Journal of Discrete Event Systems**, No. 1, pp. 415-439, 1992.
- [J38] F. BACCELLI and M. CANALES, “Parallel Simulation of Stochastic Petri Nets Using Recursive Equations”, **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, No. 3(1), pp. 20–41, jan. 1993.

- [J37] F. BACCELLI and T. KONSTANTOPOULOS, "Estimates of Cycle Times in Stochastic Petri Nets", Proceedings du Workshop Franco-Américain sur les Probabilités Appliquées, Springer Verlag, **Lectures Notes in Control and Information Sciences**, No. 177, pp. 1-20, 1992
- [J36] F. BACCELLI and Z. LIU, "Comparison Properties of Stochastic Decision Free Petri Nets", **IEEE Trans. on Automatic Control**, Vol. 37, pp. 1905-1920, 1992.
- [J35] A. JEAN-MARIE and F. BACCELLI, "Communication and Time Complexity of a Distributed Election Protocol", Special Issue of **Queueing Systems (QUESTA)** sur les communications, No. 9, pp. 83-111, 1991.
- [J34] F. BACCELLI and A. MAKOWSKI, "Synchronization in Queueing Systems", in the volume on **Stochastic Analysis of Computer and Communication Systems**, pp. 57-131, H. Takagi Edit., North Holland, 1990.
- [J33] F. BACCELLI, N. BAMBOS, J. WALRAND, "Flow Analysis of Stochastic Marked Graphs", Proceedings **C.D.C. 89**, Tampa, dec. 1989. **Probability in Engineering and Information Sciences**, No. 5 pp. 145-157, 1991.
- [J32] F. BACCELLI, "Stochastic Ordering of Random Processes with an Imbedded Point Process", **Journal of Applied Probability**, No. 28, pp. 553-567, 1991.
- [J31] F. BACCELLI and P. BREMAUD, "Virtual Customers in Sensitivity Analysis and Light Traffic Analysis via Campbell's Formula for Point Processes", **Advances in Applied Probability**, No. 25, pp. 221-234, 1993.
- [J30] F. BACCELLI and A. MAKOWSKI, "Exponential Martingales for Queues in a Random Environment, the M/GI/1 Case", **Stochastic Processes and their Applications**, No. 38, pp. 99-133, 1991.
- [J29] T. KONSTANTOPOULOS and F. BACCELLI, "On the Cutt-off Phenomenon in some Queueing Systems", **Journal of Applied Probability.**, No. 28, pp. 683-694, 1991.
- [J28] F. BACCELLI, "Ergodic Theory of Stochastic Petri Networks", Proceedings C.D.C. 89, Tampa, dec. 1989, **The Annals of Probability**, No. 20, pp. 375-396, 1992.
- [J27] F. BACCELLI and D. TOWSLEY, "The Response Times in The Processor Sharing Queue are Associated", **Queueing Systems (QUESTA)**, No. 7, pp. 269-282, 1990.
- [J26] F. BACCELLI and Z. LIU, "On a Class of Stochastic Evolution Equations", **The Annals of Probability**, No. 20, 1992.
- [J25] D. TOWSLEY and F. BACCELLI, "Comparison of Service Disciplines in a Tandem Queueing Network with Real Time Constraints", **Operations Research Letters**, No. 10, pp. 49-55, 1991.
- [J24] F. BACCELLI and Z. LIU, "On the Execution of Parallel Programs on Multiprocessor Systems- A Queueing Theory Approach", **Journal of the Association for Computer Machinery (J.A.C.M)**, Vol. 27 No. 32, pp. 373-414, apr. 1990
- [J23] F. BACCELLI and Z. LIU, "Architectures et performances des systèmes multiprocesseurs", **Annales des Mines**, pp. 45-48, 1991.
- [J22] F. BACCELLI and Z. LIU, "Generalized Precedence Based Queueing Systems". Actes du *Colloque C3*, Angoulême, oct. 1988, **Mathematics of Operations Research**, No. 17, pp. 615-639, 1992.
- [J21] F. BACCELLI, E.G. COFFMAN and E. GILBERT, "Tandem Conveyor Queues", **Probability in Engineering and Informational Sciences**, Vol. 3 No. 4, pp. 517-536, 1989.

- [J4] F. BACCELLI, E. GELENBE and B. PLATEAU, "An End to End Approach to the Resequencing Problem", **Journal of the Association for Computing Machinery, (J.A.C.M.)** Vol. 31, No. 3, pp. 474-485, jul. 1984.
- [J3] F. BACCELLI and E.G. COFFMAN, "A Data Base Replication Analysis Using an M/M/m Queue with Service Interruptions". **Performance Evaluation Review** No. 11, 4, pp. 102-107, 1982.
- [J2] F. BACCELLI and T. FLEURY, "Parsing Arithmetic Expressions in a Multiprocessing Environment". **Acta Informatica** No. 17, pp. 287-310, Springer Verlag, 1982.
- [J1] F. BACCELLI, "Analysis of a Service Facility with Periodic Checkpointing", **Acta Informatica** No. 15, pp. 67-81, 1981.

Publications in International Conferences, not published in journals

- [C46] F. BACCELLI, J. LI , T. RICHARDSON, S. SHAKKOTTAI, S. SUBRAMANIAN and X. WU "On Optimizing CSMA for Wide Area Ad-hoc Networks", Proceedings of **WIOPT-SPASWIN'11**, Princeton, April 2011.
- [C45] F. BACCELLI and J. BOLOT, "Modeling the Economic Value of the Location Data of Mobile Users", Proceedings of **IEEE INFOCOM 2011**, Shanghai, April 2011.
- [C44] F. BACCELLI and B. BLASZCZYSZYN, "A New Phase Transition for Local Delays in MANETs", Proceedings of **IEEE INFOCOM 2010**, San Diego, March 2010.
- [C43] F. MORLOT, F. BACCELLI and S. ELAYOUBI, "An Interaction-Based Mobility Model for Dynamic Hot Spot Analysis", Proceedings of **IEEE INFOCOM 2010**, San Diego, March 2010.
- [C42] H. ZANG, F. BACCELLI and J. BOLOT, "Bayesian Inference for Localization in Cellular Networks", Proceedings of **IEEE INFOCOM 2010**, San Diego, March 2010.
- [C41] T.V. NGUYEN and F. BACCELLI, "A Probabilistic Model of Carrier Sensing Based Cognitive Radio", Proceedings of **IEEE Symposium Dynamic Spectrum Access Networks, DYSPAN'10**, Singapore, Apr. 2010.
- [C40] C.S. CHEN and F. BACCELLI, "Self-Optimization in Mobile Cellular Networks: Power Control and User Association", Proceedings **IEEE ICC'10**, Cape Town, South Africa, May 2010.
- [C39] F. BACCELLI, G. Carofiglio and M. Piancino, "On Scalable TCP", Proceedings of **IEEE INFOCOM'09**, Rio de Janeiro, Brazil 2009.
- [C38] F. BACCELLI, B. BLASZCZYSZYN and P. MUHLETHALER, "On the performance of time-space opportunistic routing in multihop Mobile Ad Hoc Networks", Proceedings of **IEEE WiOpt**, Berlin, April 2008.
- [C37] F. BACCELLI, B. BLASZCZYSZYN, E. ERMEL and P. MUHLETHALER, "An optimized relay self selection technique for opportunistic routing in mobile ad hoc networks", Proceedings of the **IEEE European Wireless Conference**, Prague, June 2008.
- [C36] V. ANANTHARAM and F. BACCELLI, "A Palm theory approach to error exponents", Proceedings of **IEEE Symposium on Information Theory**, Toronto, Canada, July 2008.

- [C35] F. BACCELLI, S. MACHIRAJU, D. VEITCH and J. BOLOT, “On Optimal Probing for Delay and Loss Measurement”, Proceedings **2007 ACM SIGCOMM Internet Measurement Conference**, San Diego, California, Pages 291–302, October 2007.
- [C34] H.Q. NGUYEN, F. BACCELLI and D. KOFMAN, “A Stochastic Geometry Analysis of Dense IEEE 802.11 Networks” Proceedings **IEEE INFOCOM’07**, Anchorage, Page(s): 1199 - 1207 May 2007.
- [C33] V. MHATRE, K. PAPAGIANNAKI and F. BACCELLI, “Interference Mitigation Through Power Control in High Density 802.11 WLANs Proceedings **IEEE INFOCOM’07**, Anchorage, Page(s): 535 - 543 May 2007.
- [C32] B. KAUFFMANN, F. BACCELLI, A. CHINTREAU, V. MHATRE, K. PAPAGIANNAKI and C. DIOT, “Measurement-Based Self Organization of Interfering 802.11 Wireless Access Networks” Proceedings **IEEE INFOCOM’07**, Anchorage, Page(s):1451 - 1459, May 2007.
- [C31] F. BACCELLI and McDONALD, D., “Mellin Transforms for TCP Throughput with Applications to Cross Layer Optimization”, Proceedings of **CISS’06**, Princeton University, March 2006.
- [C30] F. BACCELLI, S. MACHIRAJU, D. VEITCH and J. BOLOT “The Role of PASTA in Network Measurement” Proceedings of **ACM SIGCOMM’06**, Pisa, October 2006.
- [C29] F. BACCELLI, N. BAMBOS and C. CHAN. “Optimal Throughput and Routing for Wireless Link Arrays”. Proceedings of **IEEE INFOCOM’06**, Barcelona, March 2006.
- [C28] S. MACHIRAJU, D. VEITCH, F. BACCELLI, A. NUCCI and J. BOLOT, “Theory and Practice of Cross-Traffic Estimation”, Proceedings of **ACM SIGMETRICS’05**, Banff, Canada, June 2005.
- [C27] F. BACCELLI, K.B. KIM and D. DE VLEESCHAUWER, “Analysis of the Competition between Wired, DSL and Wireless Users in an Access Network”, Proceedings of **IEEE INFOCOM’05** Miami, March 2005.
- [C26] F. BACCELLI, B. BLASZCZYSZYN and M. KARRAY, “Blocking Rates in Large CDMA Networks via a Spatial Erlang Formula”, Proceedings of **IEEE INFOCOM’05** Miami, March 2005.
- [C25] F. BACCELLI, A. CHINTREAU, Z. LIU, S. SAHU and A. RIABOV, “The One to Many TCP Overlays”, Proceedings of **IEEE INFOCOM’05** Miami, March 2005.
- [C24] F. BACCELLI and K.B. KIM, “TCP Throughput Analysis under Transmission Error and Congestion Losses”, Proceedings of **IEEE INFOCOM’04** Hong Kong, March 2004.
- [C23] D. HONG, P. POPPE, J. REYNIER, F. BACCELLI, G. PETIT, “The Impact of Burstification on TCP Throughput in Optical Burst Switching Networks, Proceedings of **ITC’03**, Berlin, Sept. 03.
- [C22] F. BACCELLI, A. CHINTREAU and Z. LIU, “An Analysis of Overlay Multicast Communication via First Passage Percolation”, Proceedings of **MTNS’04**, Louvain, Belgium, July 04.
- [C21] F. BACCELLI, A. CHINTREAU, Z. LIU, S. SAHU and A. RIABOV, “Scalability of Reliable Group Communication Using Overlays”, Proceedings of **IEEE INFOCOM’04** Hong Kong, March 2004.
- [C20] F. BACCELLI and D. HONG, “Flow Level Simulation of Large IP Networks”, Proceedings of **IEEE INFOCOM’03** San Francisco, Apr. 2003.

- [C19] F. BACCELLI, B. BLASZCZYSZYN and F. TOURNOIS, "Downlink Capacity and Admission - Congestion Control in CDMA Networks", Proceedings of **IEEE INFOCOM'03**, San Francisco, Apr. 03.
- [C18] F. BACCELLI and S. HAAR, "Counter Equations for Timed Competition Nets". Proceedings of the *Workshop on Max-plus Algebras and Their Applications to Discrete-event Systems, Theoretical Computer Science, and Optimization, 1st IFAC Symposium on System Structure and Control*, aug. 2001, Prague.
- [C17] F. BACCELLI, D. HONG and Z. LIU, "Fixed Point Methods for the Simulation of a Large Number of Interacting TCP Connections." Proceedings of the **ITC Specialists Seminar on Access Networks and Systems**, Girona, pp. 233-244, 2001.
- [C16] F. BACCELLI and D. HONG, "A.I.M.D, Fairness and Fractal Scaling of TCP Traffic". Proceedings of **IEEE INFOCOM'02**, NY, jun. 2002.
- [C15] F. BACCELLI, D. KOFMAN and J.L. ROUGIER, "Self Organizing Hierarchical Multi-cast Trees and their Optimization", Proceedings of **IEEE INFOCOM'99**, New York.
- [C14] F. BACCELLI and D. HONG, "The AIMD Model for TCP Sessions Sharing a Common Router", Proceedings of the **39th Annual Allerton Conf. on Communication, Control and Computing**, Allerton Illinois, 2001.
- [C13] F. BACCELLI and D. HONG, "TCP is max-plus Linear", Proceedings of **ACM SIGCOMM'00**, Stockholm, Vol. 30, No. 4, pp. 219-230, sept. 2000.
- [C12] F. BACCELLI, S. GAUBERT and D. HONG, "Representation and Expansion of Max-Plus Lyapunov Exponents", Proceedings of the **37th Annual Allerton Conf. on Communication, Control and Computing**, Allerton Illinois, 1999.
- [C11] F. BACCELLI, S. SCHLEGEL and V. SCHMIDT, "Asymptotics of Tandem Queues with Subexponential Service Times", Proceedings of the **Workshop on Stochastic Modeling of High Speed Networks**, Technical University, Munich, 1998.
- [C10] E. ALTMAN, F. BACCELLI and J. BOLOT, "Discrete-time Analysis of Adaptive Rate Control Mechanisms", Proceedings **5th international conference on High Speed Networks**, pp. 121-140. North Holland, 1994.
- [C9] F. BACCELLI, N. FURMENTO and B. GAUJAL, "Parallel and Distributed Simulation of Free Choice Petri Nets", Proc. Ninth Workshop on Parallel and Distributed Systems, Parallel and Distributed Simulation **PADS'95**, Lake Placid, 1995.
- [C8] F. BACCELLI, "A Queueing Model of Timestamp Ordering in a Distributed System". Proceedings of **Performance'87**, Bruxelles, dec. 1987, pp. 411-431, North Holland.
- [C7] F. BACCELLI and W.A. MASSEY, "On the Busy Period of Certain Classes of Queueing Networks". Invited paper, **2nd International Workshop on Applied Mathematics**, University of Rome 2, apr. 1987, pp. 3-11, North Holland.
- [C6] F. BACCELLI, "Queues with Locking ; the Multiclass Problem". Invited paper, **International Seminar on Teletraffic Analysis and Computer Performance Evaluation**, Amsterdam, pp. 359-373, jun. 86, North Holland.
- [C5] F. BACCELLI and A. MAKOWSKI, "Simple Computable Bounds for the Fork Join Queue". Proceedings of the **Johns Hopkins Conference on Information Science and Systems**, pp. 436-141, Johns Hopkins University, mar. 1985.
- [C4] F. BACCELLI and Ph. ROBERT, "Analysis of Update Response Times in a Distributed Data Base Maintained by the Conservative Time Stamps Ordering Algorithm", Proceedings of **Performance'83** (9th International Conference on Comp., Perf. Model), College Park, Maryland, pp. 415-436, may 1983, North Holland.

- [C3] F. BACCELLI and K.S. TRIVEDI, "Analysis of M/G/2 Standby Redundant System", Proceedings of **Performance'83**, College Park, Maryland, pp. 457-476, may 1983, North Holland.
- [C2] F. BACCELLI and T. ZNATI, "Queueing Systems with Breakdowns in Data Base Modeling", Proceedings of **Performance'81** (8th IFIP International Symposium on Comp. Perf. Model.), Amsterdam, pp. 213-232, nov. 1981, North Holland.
- [C1] F. BACCELLI and G. HEBUTERNE, "On Queues with Impatient Customers", Proceedings of **Performance'81**, Amsterdam, pp. 159,180, nov. 1981, North Holland.