

Prof. Krzysztof Pawlikowski

PUBLICATIONS and PRESENTATIONS (until 31 December 2008)

*Together: 152 peer-reviewed publications in books, scientific journals and conference proceedings (on Dec 31, 2008). The most important publications are marked by **

1. Books

- *4. J. Spragins, J. Hammond and K. Pawlikowski. *Telecommunication Networks: Protocols and Design*. Addison Wesley, New York, 1991, 716 pages
Between 1991 and 1996, this textbook was adopted in more than 100 universities around the world
3. J. Spragins, J. Hammond and K. Pawlikowski. *Solutions Manual. Telecommunication Networks: Protocols and Design*. Addison-Wesley, New York, 1991, 239 pages
Solutions of problems listed in the book [4]; separately published and distributed by Addison-Wesley.
2. J. Konorski, K. Pawlikowski and J. Wozniak. *Data Communication Systems-Theory and Problem Solutions (2nd Extended Edition)*. Published by Technical Univ. of Gdansk, Poland, 1983, 350 pages (in Polish).
1. J. Konorski, K. Pawlikowski and J. Wozniak. *Data Communication Systems-Theory and Problem Solutions*. Published by Technical Univ. of Gdansk, Poland, 1981, 272 pages (in Polish).

2. Books (edited)

1. *AICCSA 2007. The 5th IEEE/ACS International Conference on Computer Systems and Applications*. Editors: M. Obaidat, K. Pawlikowski, J. L. Marzo and P. Lorenz. IEEE 2007 (ISBN 1-4244-1031-2).

3. Articles/papers in refereed scholarly and professional journals

34. S. K. Ray, K. Pawlikowski and H. Sirisena. "Handovers in Mobile WiMAX Networks: the State of Art and Research Issues". *Submitted to IEEE Communication Surveys; after the 1st review*.
33. H.-D. J. Jeong, J.-S. R. Lee, D. McNickle and K. Pawlikowski. "Comparison of Various Estimators in Simulated FGN". *Simulation Modelling Practice and Theory*. 2007, 15(10), 1173-1191
- 32*. H.-D. J. Jeong, J.-S. R. Lee, D. McNickle and K. Pawlikowski. "Suggestions of Efficient Self-Similar Generators". *Simulation Modelling, Practice and Theory*, 2007, 15(3): 328-353
31. S. Perera, H. Sirisena and K. Pawlikowski. "Optimal Packetization Interval for VoIP Applications over IEEE 802.16 Networks". *African J. of Information & Communication Technology* (ISSN: 1449-2679), vol. 2, no 4, Dec. 2006, 145-155
- *30. M. Eikhoff, D. McNickle and K. Pawlikowski. "Analysis of the Time Evolution of Quantiles in Simulation". *Int. J. on Simulation: Systems, Science & Technology* (UK), vol. 7, no 6, Sept. 2006, 44-55
29. K. Pawlikowski. "Comments on Proportions Estimation of Correlated Sequences". *Simulation*, vol. 81, Nov. 2005, 789
28. H.-D. J. Jeong, J.-S. R. Lee, D. McNickle and K. Pawlikowski. "Distributed Steady-state Simulation of Telecommunication Networks with Self-similar Teletraffic". *Simulation Modelling Practice and Theory*, vol. 13, issue 3, April 2005, 233-56
- *27. S. R. Cho, K. Pawlikowski and H. Sirisena. "An Efficient Transport Protocol for Ad Hoc Networks: An End-to-End Freeze TCP with Timestamps". *J. of Communications and Networks*, Dec. 2004, 376-86

The paper proposes a modification of the TCP protocol for mobile ad-hoc networks which overcomes previously reported problems with TCP

- 26. A. Haider, H. Sirisena and K. Pawlikowski. "PID based Congestion Control Algorithm for AQM Routers supporting TCP/IP flows". *IEICE Transactions on Communications*, March 2004, 102-17
The paper proposes a novel technique of congestion avoidance in the Internet-type networks
25. A. Haider, H. Sirisena and K. Pawlikowski. "Fair End-to-End Optimal Minimum Variance Window Control". *IEICE Transactions on Communications*, March 2004, 85-101
The paper proposes an optimal flow control algorithm for the Internet-type networks
- *24. M. Rezvan, K. Pawlikowski and H. Sirisena. "A Distributed Cache Architecture with Snooping for QoS Routing in Large Networks". *Computer Networks*, 44, 2, Feb. 2004, 189-209
The paper introduces a novel caching technique for improving performance of the Internet-type networks.
23. H.-D. J. Jeong, D. McNickle and K. Pawlikowski. "Generation of Self-Similar Processes for Simulation Studies of Telecommunication Networks". *J. Mathematical and Computer Modeling*. 38, 2003, 1249-57
The paper presents a new pseudorandom generator of selfsimilar processes based on wavelet transform.
22. N. Sarkar and K. Pawlikowski. "A Delay-Throughput Performance Improvement to the p_i-persistent Protocol". *Pakistan J. of Applied Sciences*, vol. 2, no.3, March 2002, 390-399.
- *21. K. Pawlikowski, H.-D. J. Jeong and J-S. R. Lee. "On Credibility of Simulation Studies of Telecommunication Networks". *IEEE Comms Magazine*, Jan. 2002, vol.40. no.1, 132-9
A paper questioning the current methodology used in the majority of research papers on performance evaluation of computer networks published in technical literature during the last decade.
- *20. M. Rezvan, K. Pawlikowski and H. Sirisena. "An Adaptive Reservation Scheme for VBR Voice Traffic in Wireless ATM Networks". *Int. Journal on Telecommunication Networks*, vol. 12, 2001, no.1-2, 103-113.
A paper proposing a new communication protocol for wireless networks.
- *19. K. Pawlikowski and V. Yau. "Parallel Simulation Methodology for Speedup and Obtaining Performance Estimates with Specific Accuracy: Experiences of Its Applications in Studies of Metropolitan Area Networks". *Simulation J.*, 75, 4, Oct. 2000, 211-24
This paper presents a novel methodology of performance evaluation studies of computer networks. This research project was partially supported by a research grant from the University of Canterbury.
18. K. Pawlikowski and V. Yau. "Analysis of Dual-Bus Metropolitan Area Networks Using Distributed Quantitative Stochastic Simulation". *Simulation J.*, 75, 3, Sept. 2000, 157- 69.
This paper evaluates performance of communication protocols proposed for multimedia high-speed metropolitan area networks. The research project was partially supported by a research grant from the Univ. of Canterbury.
- *17. K. Pawlikowski and V. Yau. "An Algorithm that Uses Forward Planning to Expedite Conflict-Free Traffic Assignments in Time-Multiplex Switching Systems". *IEEE Trans. on Communications*, 47, 11, Nov. 1999, 1757-65
A novel algorithm proposed in this paper, for scheduling transmissions of data packets in a conflict-free way, outperforms all algorithms that have been previously proposed to solve such problems.
- *16. V. Yau and K. Pawlikowski. "CA-Star: A Centrally-Arbitrated Passive Broadcast-and-Select Star Architecture for Lightwave Network". *J. of High Speed Networks*, 8, 3, 1999, 173-93/
This paper proposes a novel architecture for all-optical computer networks
- *15. K. Pawlikowski, G. Ewing and D. McNickle. "Coverage of Confidence Intervals in Sequential Steady-State Simulation". *J. Simulation Practice and Theory*, 6, 3, 1998, 255-67.
This publication introduces a new methodology for testing credibility of quantitative stochastic simulation. This is an extended version of a paper that, together with 21 other papers, has been selected for publication by the editor of J.S.P&T, after its presentation at the European Simulation Congress, ESC'95, in Vienna (Austria).
- *14. R. Mathar and K. Pawlikowski. "A Random Access Protocol for Unidirectional Bus Networks". *Computer Communications*, 20, 7, August 1997, 535-43
This paper analyses limitations characterizing stochastic scheduling of services in fast data networks of bus topology.
13. F. Hartanto, W. Kreutzer, K. Pawlikowski and H. Sirisena. "DESC++: an Object-Oriented Tool for Simulating Telecommunication Networks". *Int. J. on Computers and Electrical Eng.*, 1996, 22, 6, 367-81
This paper presents a novel solution for automatic quantitative stochastic simulation of telecommunication networks, and its object-oriented implementation in a simulation package DESC++ designed by the authors.
12. I. Bosley, T. Kuchlein, K. Pawlikowski and A. Steward "On Priority Promotion DQDB

Networks to Improve Fairness". *Computer Communications*, 18, 1, Jan.1995, 48-9

This publication points out errors in another publication and is the result of class discussion in COSC811 (an Honours paper)

- *11. K. Pawlikowski. "Steady State Simulation of Queueing Processes: A Survey of Problems and Solutions". *ACM Computing Surveys*, 22, 2, June 1990, 123-70
This paper has been placed on the list of "30 papers every PhD student in the field of networks should know". The list has been compiled by the Department of Computer Science, Columbia, University, NY, USA; see www.cs.columbia.edu/~hgs/netbib/standard.html (April 1998), I am still receiving requests for copies.
- 10. K. Pawlikowski and J. Wozniak. "Influence of Message Length on Information Throughput in Random Access Channel". *Archiwum Automatyki i Telemekhaniki*, 1, 1985, 31-9 (in Polish)
- 9. K. Pawlikowski. "Evaluation of Slot-Assignment Techniques in Loop Communication Networks". *Archiwum Automatyki i Telemekhaniki*, 4, 1984, 443-54
- 8. K. Pawlikowski. "Competition for Slots versus STDM in Conflict-Free Common Channel with Access en Route". *J. Inst. of Telecommunications and Acoustics*, 48, 1982, 122-7 (in Polish).
- *7. K. Pawlikowski. "Message Waiting Time in a Packet Switching System". *J. of ACM*, 1, 1980, 30-41
- 6. K. Pawlikowski and W. Szpankowski. "An Approximate Analysis of a Packet Switching with a Multiple Satellite Channels". *Systems Science*, 3, 1979, 299-313
- *5. K. Pawlikowski. "Channel Occupation in a Computer Communication System with Access on the Way". *Bull. de l'Academie Polonaise des Sciences, Series des Sci. Techniques*, 3, 1979, 33-41
- 4. K. Pawlikowski. "Loop Communication Networks in Data Processing Systems". *Informatyka*, 1, 1979, 14-16 (in Polish)
- *3. K. Pawlikowski. "Virtual Delay Distributions in some Loop Computer Network". *Bull. De l'Academie Polonaise des Sciences, Series des Sci. Techniques*, 7, 1974, 63-70
- *2. K. Pawlikowski. "Queue Length Distributions in some Loop Computer Network". *Bull. de l'Academie Polonaise des Sciences, Series des Sci. Techniques*, 7, 1974, 55-62
- 1. K. Pawlikowski and J. Szklanny "A Method of Aggregation and its Application for Optimisation of Dynamic Processes". *Archiwum Automatyki i Telemekhaniki*, 1, 1970, 409-29 (in Polish)

4. Chapters in books

- 11. A. Roxburgh, K. Pawlikowski and D. McNickle. "The State of Grid Computing". In *Grid Computing: An Introduction*, A. Y. Krishna (ed.), ICFAI Press, 2006, Chapter 6, 87-107
- 10. A. Haider, H. Sirisena and K. Pawlikowski. "Interaction between TCP Reno and TCP Vegas in End-to-End Congestion Control". *Lecture Notes in Computer Science*, vol. 3090, 2004, 321-31. Published also in Proc. Int. Conf. on Information Networking (ICOIN'2004, Busan, Korea, Feb. 2004).
- 9. S. J. Yi, K. Pawlikowski, H. Sirisena and Prasan De Silva. "Post-dialing Delay of Multimedia Sessions in 3G Mobile Networks". *Lecture Notes in Computer Science*, vol. 3090, 2004, 514-23. Published also in Proc. Int. Conf. on Information Networking (ICOIN'2004, Busan, Korea, Feb. 2004).
This was an invited paper presented at the opening of the conference.
- *8. K. Pawlikowski. "Do Not Trust All Simulation Studies of Telecommunication Networks". *Lecture Notes in Computer Science*, vol. 2662, 2003, 899-908. Published also in Proc. Int. Conf. on Information Networking, ICOIN'03 (Jeju Island, Korea, February 2003).
This was an invited key-note paper of the conference. A paper proposes novel techniques which are able to overcome main problems of automated distributed simulation
- 7. K. Pawlikowski. "Distributed Stochastic Discrete-Event Simulation". In: *Simulation in Research and Development*, L. Bobrowski and R. Bogacz (eds.), Polish Society of Computer Simulation and Polish Academy of Sciences, Warszawa, 2000, 8-17.
- *6. K. Pawlikowski and T. Bell. "The Effect of Data Compression on Packet Sizes in Data Communication Systems". In *Teletraffic and data traffic in a period of change*, A. Jensen and V.B. Iversen (eds.), Studies in Telecommunication, v.14, Amsterdam, North-Holland, 1991, 556- 62

- *5. K. Pawlikowski and M. Asgarkhani. "Sequential Procedures in Simulation Studies of Satellite Communication Protocols". In: *Teletraffic Science for New Cost-Effective Systems, Networks and Services*, M.Bonatti (ed.). Studies in Telecommunication, vol.12, part 2, North-Holland, Amsterdam, 1989, 1270-6
4. K. Pawlikowski. "Analysis of Buffer Memories". In: *Wlasnosci i Funkcje Sieci Komputerowych (Performance Modeling of Computer Networks)*, Biblioteka WASC, vol.2, published by Tech. Univ. of Wroclaw, Poland, 1980, 84 -100 (in Polish)
3. K. Pawlikowski and M. Rojewski. "Computer Networks". Chapter 3 in *Problems of Integrated Computer Communication Networks*. W. Sobczak (ed.), published by WKL., Warszawa, Poland, 1984, 100-34 (in Polish).
2. K. Pawlikowski. "Loop Computer Communication Networks: A Survey". In: *Problems of Control and Management of Computer Networks*; published by PWN, Warszawa, 1979, 165-82 (in Russian) .
1. K. Pawlikowski and M. Rojewski. "Computer Communication Networks". Chapter 3 in *Introduction to Computer Communication Networks*. W. Sobczak (ed.), published by WKL, Warszawa, Poland, 1979, 93-124 (in Polish).

5. Papers published in refereed conference proceedings

106. W. Liu, H. Sirisena and K. Pawlikowski, "FoF-R Ant: A New Ant-Based Distributed Routing Scheme Implemented in OMNeT++". Submitted for OMNET++ 2009 (2nd International Workshop on OMNeT++, Rome, Italy, March 2009)
105. W. Liu, H. Sirisena and K. Pawlikowski. "FoF-R Ant: Ant-Based Survivable Routing Scheme for Shared Path Protection". Proc. ATNAC 2008, Adelaide, Dec 2008.
104. S.K.Ray, K.Pawlikowski and H.Sirisena. "A Fast MAC-layer Handover for an IEEE 802.16e-based WMAN". Proc. 3rd ICST Int. Conf. on Access Networks (AccessNets 2008), Las Vegas, USA, Oct. 2008.
103. R. Bolla, R. Bruschi, K. Pawlikowski and M. Sciuto. "Network Layer Performance in Peer-to-Peer File Sharing Systems". Proc. 4th EURO-NGI Conf. on Next Generation Internet Networks, Krakow, Poland, April 2008
102. C. L. Begg, K. Pawlikowski, H. Sirisena and P. De Silva. "Suitability of SCTP for High Quality Video Streaming over CDMA2000". Proc. ATNAC'07 (Australasian Telecommunication Networks and Applications Conf.), Christchurch, New Zealand, Dec. 2007 (*archived in IEEE Xplore Digital Library*)
101. W. Li, H. Sirisena and K. Pawlikowski. "An Address-Based Routing Scheme for Static Applications of Wireless Sensor Networks". Proc. ATNAC'07 (Australasian Telecommunication Networks and Applications Conf.), Christchurch, New Zealand, Dec. 2007(*archived in IEEE Xplore Digital Library*)
100. S. K. Ray, A. Mandal, K. Pawlikowski and H. Sirisena. "Hybrid Predictive Base Station (HPBS) Selection Procedure in IEEE 802.16e based WMAN". Proc. ATNAC'07 (Australasian Telecommunication Networks and Applications Conf.), Christchurch, New Zealand, Dec. 2007. (*archived in IEEE Xplore Digital Library*)
99. A. Jayanathan, H. Sirisena and K. Pawlikowski. "TCP Enhancement over Wireless Links by Minimizing Spurious TCP Timeouts". Proc. ATNAC'07 (Australasian Telecommunication Networks and Applications Conf.), Christchurch, New Zealand, Dec. 2007 (*archived in IEEE Xplore Digital Library*)
- *98. M. Eickhoff, D. McNickle and K. Pawlikowski. "Using Parallel Replications for Sequential Estimation of Multiple Steady State Quantiles". Proc. ACM ValueTools'07 ((2nd Int. Conf. on Performance Evaluation Methodologies and Tools), Nantes, France, Oct. 2007 (*archived in ACM Digital Library*)
- *97. M. Eickhoff, D. McNickle and K. Pawlikowski. "Detecting the Duration of Initial Transient in Steady State Simulation of Arbitrary Performance Measures". Proc. ACM ValueTools'07 (2nd

Int. Conf. on Performance Evaluation Methodologies and Tools, Nantes, France, Oct. 2007
(*archived in ACM Digital Library*)

- *96. D. McNickle, K. Pawlikowski and G. C. Ewing, "Transient Deletion and the Quality of sequential Steady-state Simulation". ECMS'07, Prague, Czech Republic, June 2007
- 95. R. Bolla, M. Eickhoff, K. Pawlikowski, M. Sciuto. "Modeling File Popularity in Peer-to-Peer File Sharing Systems". ASMTA'07, Prague, Czech Republic, June 2007
- 94. A. Jayanathan, H. Sirisena and K. Pawlikowski. "Improving TCP Performance over 801.11 WLAN with Radio Network Feedback". Proc. ATNAC'06 (Australian Telecommunication Networks and Applications Conf., Dec. 2006, Melbourne, Australia), 2006, 9-14.
- *93. K. Pawlikowski, M. Schoo and D. McNickle. "Modern Generators of Multiple Streams of Pseudo-Random Numbers". Proc. Int. Mediterranean Modelling Multiconf., European Modeling and Simulation Symp. (EMSS'06), Barcelona, Spain, Oct. 2006, 553-59
- 92. S. Perera, H. Sirisena and K. Pawlikowski. "Optimal Packetization Interval for VoIP Applications over IEEE 802.16 Networks". Proc. 17th ITC (Int. Teletraffic Congress) Specialist Seminar, Melbourne, Australia, May 2006
- 91. A. Jayanathan, H. Sirisena and K. Pawlikowski. "TCP Performance Enhancement over UMTS Network with RNC Feedback". Proc. IEEE Int. Conf. on Wireless Broadband and Ultra Wideband Communications, AuSWireless'06, Sydney, Australia, March 2006
- 90. F. L. Chong, I. V. McLoughlin and K. Pawlikowski. "A Methodology for Improving PESQ Accuracy for Chinese Speech". Will be published in Proc. IEEE TENCON'05 (IEEE Int. Conf. of Region 10, Melbourne, Australia, Nov. 2005).
- 89. P. De Alwis, H. Sirisena and K. Pawlikowski. "Control-theoretic Adaptive Admission Control in WCDMA Networks". Published in Proc. 2005 Int. Symp. Performance Evaluation of Computer and Telecommunication Systems (SPECTS'05), Philadelphia, USA, July 2005, 165-171
- *88. M. Eickhoff, K. Pawlikowski and D. McNickle. "Efficient Truncation Point Estimation for Arbitrary Performance Measures". Proc. 3rd Int. Industrial Simulation Conf. (ISC'2005), Berlin, Germany, June 2005, 5-12
- 87. M. Eickhoff, K. Pawlikowski and D. McNickle. "Depiction of Transient Performance Measures using Quantile Estimation". Proc. 19th European Conf. on Modelling and Simulation, ECMS'2005, Riga, Latvia, June 2005, 358-63
- 86. S. R. Cho, K. Pawlikowski and H. Sirisena. "An End-to-End Freeze TCP with Timestamps for Mobile Ad Hoc Networks". Proc. IEEE Int. Conf. on Communications (IEEE ICC'2005), Buzen, Korea, May 2005, vol.5, 3576-82
- 85. H. Sirisena, A. Haider and K. Pawlikowski. "Ziegler-Nichols based Design of Adaptive PI Controller for AQM Routers". Proc. ATNAC'04 (Australian Telecommunication Networks and Applications Conf., Dec. 2004, Sydney, Australia), 2004, 9-14.
- 84. F. Chai, H. Sirisena and K. Pawlikowski. "Implementation of Freeze-TCP with Cellular IP in a Wireless LAN". Proc. ATNAC'04 (Australian Telecommunication Networks and Applications Conf., Dec. 2004, Sydney, Australia), 2004, 604-11
- 83. A. Haider, H. Sirisena and K. Pawlikowski. "Generalised Ziegler-Nichols Design of PI Controllers for AQM in TCP/IP routers". Proc. ICOTA'04 (Int. Conf. on Optimization: Techniques and Applications, Dec. 2004, Ballarat, Australia), 2004, 140-5.
- 82. T. Hofffeld, K. Leibnitz, R. Pries, K. Tutschku, P. Tran-Gia and K. Pawlikowski. "Single-File Diffusion in eDonkey-like P2P Networks". Proc. ATNAC'04 (Australian Telecommunication Networks and Applications Conf., Dec. 2004, Sydney, Australia), 2004, 427-35.
- 81. D. McNickle, G. C. Ewing and K. Pawlikowski. "Refining Spectral Analysis for Confidence Interval Estimation in Sequential Simulation". Proc. ESS'04 (European Simulation Symp., Oct. 2004, Budapest, Hungary), 2004, 75-81.
- 80. A. Firag, H. Sirisena and K. Pawlikowski. "An Analytical Model of a Distributed Wireless MAC with Service Differentiation". Proc. 9th International Conference on Communications Systems 2004 (ICCS 2004), Singapore, Sept. 2004, 80-5
- 79. E. C. Kao, K. Pawlikowski, S. Perera and H. Sirisena. "A Dynamic Random Channel Reservation for MAC Protocols in Multimedia Networks". Proc. of 11th Int. Conf. On Analytical and

Stochastic Modelling Techniques and Applications (ASMTA'04, Magdeburg, Germany, June 2004), 31-7

78. A. Haider, H. Sirisena and K. Pawlikowski. "Interaction between TCP Reno and TCP Vegas in End-to-End Congestion Control". Proc. of Int. Conf. on Information Networking (ICOIN'2004, Busan, Korea, Feb. 2004), 55-64.
77. S. J. Yi, K. Pawlikowski and H. Sirisena. "Post-dialing Delay of Multimedia Sessions in 3G Mobile Networks". Proc. of Int. Conf. on Information Networking (ICOIN'2004, Busan, Korea, Feb. 2004), 103-12
76. F. L. Fong, K. Pawlikowski and I. V. McLoughlin. "Evaluation of ITU-T G.728 as a Voice over IP Codec for Chinese Speech". Proc. ATNAC'03 (Australian Telecommunication Networks and Applications Conf., Dec. 2003, Melbourne, Australia), 251-5
- *75. H. Sirisena, A. Haider, H. Mahbub and K. Pawlikowski. "Transient Fairness of Optimized End-to-End Window Control". Proc. IEEE GLOBCOM'2003 (December 2003, San Francisco, USA), 546-52
This is one of two top-ranked IEEE conferences on telecommunication networks.
74. A. Haider, H. Sirisena and K. Pawlikowski. "A Control-theoretical Design of RED for Improved Congestion Control in TCP/IP Routers". Proc. 3rd Int. Conf. Dynamics of Continuous, Discrete and Impulsive Systems, DCDIS'03, Guelph, Canada, May 2003, 450-5 .
- *73. M. Rezvan, K. Pawlikowski and H. Sirisena. "A Distributed Cache Architecture for Routing in Hierarchical QoS-Capable Networks". Proc. IEEE ICC'2003, Anchorage, USA, May 2003, 1749-53.
- *72. K. Pawlikowski. "Distributed Quantitative Stochastic Simulation". Proc. Int. SCS Conf. on Design, Analysis and Simulation of Distributed Systems, DASD'03, Orlando, USA, April 2003, V-XII.
A major international conference on computer simulation organized by the ISCS and ACM. This was the invited key-note paper of this conference.
71. A. Haider, K. Pawlikowski and H. Sirisena. "Improved Congestion Control with Hybrid RED". Proc. 10th Int. Conf. on Telecommunications, ITC'03, Papeete, French Polynesia, Feb/March 2003, 923-8
- *70. K. Pawlikowski. "Do Not Trust All Simulation Studies of Telecommunication Networks". Proc. Int. Conf. on Information Networking, ICOIN'03, Jeju Island, Korea, Feb. 2003, 3-12.
This was an invited paper presented at the opening of the conference.
- *69. A. Haider, H. Sirisena and K. Pawlikowski. "Auto-tuning RED for Accurate Queue Control". Proc. IEEE GLOBCOM'2002 (Taipei, Taiwan, Nov. 2002). IEEE Press, 2002, vol.2, 2011-6.
This is one of two top-ranked IEEE conferences on telecommunication networks.
68. G. Ewing, D. McNickle and K. Pawlikowski. "Spectral Analysis for Confidence Interval Estimation under Multiple Replications in Parallel". Proc. European Simulation Symposium, ESS'2002 (Dresden, Germany, Oct. 2002), ISCS Press, 2002, 56-5&61.
A paper presented a new method of on-line analysis of simulation output data based on a new class of distributed estimators.
- *67. C. Cook, K. Pawlikowski and H. Sirisena. "ComAN: A Multiple-Language Active Network Architecture Enabled via Middleware". Proc. IEEE Open Architectures and Network Programming Conf., OPENARCH 2002 (New York, USA, June 2002), IEEE Press, 2002, 129-40
This is one of the top-ranked IEEE conferences on networking. Following this publication my Network Research Group has been invited by a research team from Princeton University to participate in their research project on active networks.
66. S. Mahmud, H. Sirisena and K. Pawlikowski. "Call Admission Control for Mobile Multimedia Wireless Networks". Proc. IEEE/IEEE Int. Conference on Telecommunications, ICT'2002 (Beijing, China, June 2002), vol.2, IEEE Press, 2002, 684-689
- *65. K. Pawlikowski and D. McNickle. "Speeding Up Stochastic Discrete-Event Simulation". Proc. European Simulation Symposium, ESS'01, Marseille, France, Oct. 18-20, ISCS Press, 2001, 132-8.
This paper reports a newly discovered law for speedup under distributed discrete-event simulation.
64. K. Pawlikowski and N. Sarkar. "A Delay-Throughput Performance Improvement to the p_i -Persistent Protocol". Proc. 6th IEEE Symposium on Computers and Communications, ISCC'2001,

Hammamet, Tunisia, July 3-5, IEEE Press, 2001, 145-51.

63. K. Pawlikowski and N. Sarkar. "A Simulation Study of the p_i -Persistent Protocol in Unidirectional Bus Networks". Proc. ICCIT'2001 (Int. Conf. on Computer and Information Technology), Dhaka, Bangladesh, January 25-26, 2001, 84-8.
62. F. Fitzek, E. Ewers, E. Mota, K. Pawlikowski and A. Wolisz. "An Efficient Approach for Speeding Up Simulation of Wireless Networks". Proc. Communication Networks and Distributed Systems Modelling and Simulation Conf., CNDS'2001, Phoenix, Arizona, USA, Jan. 7-11, IEEE Press, 2001, 375-81.
This paper reports results of cooperative research carried on during my stay at the Technical University of Berlin, Germany, in 1999.
- *61. E. Mota, K. Pawlikowski and A. Wolisz. "A Perspective of Batching Methods in a Simulation Environment of Multiple Replications in Parallel". Proc. Winter Simulation Conf. (WSC'2000, Orlando, USA, Dec. 2000), IEEE Press, 761-6.
The most prestigious annual conference on in the area of computer simulation, organized by ISCS (Int. So. Computer Simulation), ACM and IEEE. The annual proceedings of this conference are archived by libraries around the world on the same basis as journals.
- *60. K. Pawlikowski and W. Kreutzer. "Integrating Modelling and Data Analysis in Teaching Discrete Event Simulation". Proc. Education of Simulation, Winter Simulation Conference (WSC'2000, Orlando, USA, Dec. 2000), IEEE Press, 2000, 1645-50
The most prestigious annual conference on in the area of computer simulation, organized by ISCS (Int. Society for Computer Simulation), ACM and IEEE. The annual proceedings of this conference are archived by libraries around the world on the same basis as journals.
59. H.-D. J. Jeong, D. McNickle and K. Pawlikowski. "Some Problems with Sequential Simulation with Selfsimilar Processes". Proc. Int. Summer Computer Simulation Conf. (SCSC'2000, Vancouver, Canada, July 16-20, 2000), Int. Society for Computer Simulation, 2000, S214.1-6.
58. J.-S. R. Lee, K. Pawlikowski and D. McNickle. "Initial Transient Period Detection for Steady-State Quantile Estimation". Proc. Int. Summer Computer Simulation Conf. (SCSC'2000, Vancouver, Canada, July 16-20, 2000), Int. Society for Computer Simulation, ISCS Press, 2000, S213.1-6
57. E. De Souza Mota, K. Pawlikowski and A. Wolisz. "Towards Credible and Efficient Network Simulation Experiments". Proc. High Performance Computing Symp. (HPCS'2000, April 16-20, 2000, Washington D.C.), ISCS Press, 2000, 116-21.
56. E. De Souza Mota, K. Pawlikowski and A. Wolisz. "Comparing Overlapping Batch Means and Standardised Times Series under Multiple Replications in Parallel". Proc. European Simulation Multiconf. (ESM'2000, Ghent, Belgium, May 23-26, 2000), ISCS Press, 2000, 230-5.
55. J. Macfarlane, K. Pawlikowski and H. Sirisena. "A Performance Study of a WDMA Protocol with Trespassing for Optical Networks". Proc. 2nd Int. Conf. on Information, Communications and Signal Processing, ICICS'99, Singapore, Dec. 7-10, 1999, 3C3.4, 1-5
- *54. J.-S. R. Lee, K. Pawlikowski and D. McNickle. "Sequential Stochastic Simulation: Rules of Thumb for Improving Accuracy of the Final Results". Proc. the European Simulation Symp. ESS'99, Erlangen, Germany, Oct. 26-28, ISCS Press, 1999, 618-22
53. H.-D. J. Jeong and D. McNickle and K. Pawlikowski. "Fast Self-Similar Teletraffic Generation Based on FGN and Wavelets". Proc. IEEE Int. Conf. on Networks, ICON'99 (Brisbane, Sept.28-Oct.1, 1999), IEEE Press, 1999, 75-82
52. J.-S. R. Lee, D. McNickle and K. Pawlikowski. "Experimental Coverage Analysis of Interval Estimators for Sequential Stochastic Simulation". Proc. 1st Western Pacific/3rd Australia-Japan Workshop on Stochastic Models, Christchurch, New Zealand, Sept. 1999, 340-8
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- *48. G. Ewing, K. Pawlikowski and D. McNickle. "Akaroa2: Exploiting Network Computing by Distributing Stochastic Simulation". Proc. European Simulation Multiconf. (ESM'99, Warsaw, June 1999), Int. Society for Computer Simulation, 1999, 175-81
(one of 10 papers <of total of 176 papers> nominated for the Best Paper Award)
- *47. K. Pawlikowski. "Simulation Studies of Telecommunication Networks and Their Credibility". Proc. European Simulation Multiconf. (ESM'99, Warsaw, June 1999), Int. Society for Computer Simulation, 1999, 349-55
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- *46. H.-D. J. Jeong, D. McNickle and K. Pawlikowski. "A Comparative Study of Three Selfsimilar Tele-traffic Generators". Proc. European Simulation Multiconf. (ESM'99, Warsaw, June 1999), Int. Society for Computer Simulation, 1999, 356-62
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45. J.-S. R. Lee, D. McNickle and K. Pawlikowski. "Quality of Sequential Regenerative Simulation". Proc. European Simulation Multiconf. (ESM'99, Warsaw, June 1999), Int. Society for Computer Simulation, 1999, 161-7
44. E. De Souza Mota, K. Pawlikowski and A. Wolisz. "Sequential Batch Means Techniques for Mean Value Analysis in Distributed Simulation". Proc. European Simulation Multiconf. (ESM'99, Warsaw, June 1999), Int. Society for Computer Simulation, 1999, 129-34
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43. J.-S. R. Lee, D. McNickle and K. Pawlikowski. "Quantile Estimations in Sequential Steady-State Simulation". Proc. European Simulation Multiconf. (ESM'99, Warsaw, June 1999), Int. Society for Computer Simulation, 1999, 168-74
42. J.-S. R. Lee, D. McNickle and K. Pawlikowski. "Confidence Intervals Estimators for Coverage Analysis in Sequential Steady-State Simulation (Corrected Version)". *Australian Computer Science Comm.*, vol. 21, 1, Appendix (Proc. Australasian Computer Science Conf. ASC'99, Auckland, Jan. 1999, Springer 1999, 1-12
41. H.-D. J. Jeong, D. McNickle and K. Pawlikowski. "A Search for Computationally Efficient Generators of Synthetic Selfsimilar Teletraffic". *Australian Computer Science Comm.*, vol. 21 (Proc. Australasian Computer Science Conf. ASCS'99, Auckland, January 1999), Springer, 1999, 75-86
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39. E. De Souza Mota, K. Pawlikowski and A. Wolisz. "Getting Speedup with Accuracy in Simulation Experiments of Communication Networks". Proc. Advanced Simulation Technologies Conf., Symp. on High Performance Computing, ASTC'99 (San Diego, USA, April 15-17, 1999), Int. Society for Computer Simulation, 1999, 405-10.
This paper reports results of my cooperation with a research team from the Technical University of Berlin, Germany.
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37. E. De Souza Mota, K. Pawlikowski and A. Wolisz. "Experience with AKAROA: Speeding Up Stochastic Simulation Using Parallel Replications". Proc. High Performance Computing and Advanced Simulation Technologies Conf., HPC&ASTC'98, Boston, USA, April 1998), Int. Society for Computer Simulation, 1998, 296-301
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This paper reports a discovery that statistical methods with non-uniform data consumption are unable to work fast in parallel simulation

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- *34. K. Pawlikowski and V. Yau. "A Conflict-free Traffic Assignment Algorithm Using Forward Plan-ning". Proc. IEEE INFOCOM'96 (San Francisco, March 1996), IEEE Computer So. Press, 1996, 1277-284
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33. F. Hartanto, K. Pawlikowski and H. Sirisena. "Performance Comparison of Congestion Controls for ABR Services in ATM Networks". Proc. Australian Telecommunication Networks and Applications Conf., ATNAC'95 (Sydney, Dec. 1995) AOTC Press, 1995, 115-20
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30. F. Hartanto, K. Pawlikowski and H. Sirisena. "Equivalent Bandwidth for Connections with Pretagged Traffic". Proc. Australian Telecommunication Networks and Applications Conf., ATNAC'94 (Melbourne, Dec.1994) AOTC Press, 1994, 811-5
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- *28. K. Pawlikowski, V. Yau and D. McNickle. "Distributed Stochastic Discrete-Event Simulation in Parallel Times Streams". Proc. Winter Simulation Conf. WSC'94, IEEE Press, 1994, 723-30
The most prestigious annual conference on in the area of stochastic simulation, organized by ISCS (Int. So. Computer Simulation), ACM and IEEE. The annual proceedings of this conference are archived by libraries around the world on the same basis as journals.
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- *18. K. Pawlikowski and V. Yau. A Class of Protocols for Heavy Loaded Multiple Channel Local Area Networks". Proc. IEEE Int. Conf. on Communications, ICC'92 (Chicago, June 1992), IEEE Comm. So. Press, 1992, vol.1, 23-7
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12. M. Asgarkhani and K. Pawlikowski. "Analysis of a Satellite TDMA-Reservation Channel with Multi-Message Buffers in Mixed Traffic Environment". Proc. 2nd Int. Conf. Communication Systems, ICCS'90, (Singapore, Nov. 1990), Elsevier Science Publ. B.V., 1990, vol.1, 4.2.1-5
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4. K. Pawlikowski. "Synchronous versus Asynchronous Time Division Multiplexing in a Loop Computer Communication Networks". Proc. 5th Int. Conf. on Remote Data Transmission, Karlovy Vary, Czechoslovakia, Oct. 1981, 1, 11/38 -40
3. K. Pawlikowski. "A Study of Data Multiplexing Techniques for Loop Computer Communication Networks". Proc. Int. Symp. on Computer Networks, COMNET'81, Budapest, Hungary, May 1981, 112-21
2. K. Pawlikowski. "A Case Study: Loop Data Communication Networks". Proc. SNT'80: Statistische Nachrichtentheorie und Ihre Adwendungen, Akademie-Verlag, Berlin, East Germany, 1981, 96-103 (in Russian)

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6. Non-refereed articles published in professional journals or in non-refereed conference proceedings

4. K. Pawlikowski, H.-D. J. Jeong and J.-S. R. Lee. "Letters to the Editor re 'On Credibility of Simulation Studies of Telecommunication Networks'". *IEEE Communications Magazine*, March 2003, vol.41. no.3, 8 &10
A rebuttal to a reader's comments about the paper [21] on the list of papers in refereed journals; see page 6 of this application. It provides additional arguments that the conclusions of the paper [21] are correct.
3. A. Haider, H. Sirisena, K. Pawlikowski and M. J. Ferguson. "Congestion Control Algorithms in High Speed Telecommunication Networks". Proc. 36th Annual Conference of Operations Research Society of New Zealand, ORSNZ'2002 (Christchurch, New Zealand, Dec. 2001), 2001, 88-97
2. H.-D. J. Jeong, K. Pawlikowski and D. McNickle. "Hurst Parameter Estimation Techniques: A Critical Review". Proc. 36th Annual Conference of Operations Research Society of New Zealand, ORSNZ'2002 (Christchurch, New Zealand, Dec. 2001), 2001, 165-172
1. J.-S. R. Lee, K. Pawlikowski and D. McNickle. "Interval Estimators of Proportions in Coverage Analysis of Simulation Output Results". Proc. 36th Annual Conference of Operations Research Society of New Zealand, ORSNZ'2002 (Christchurch, New Zealand, Dec. 2001), 2001, 173-181.

7. Publicly-Available Software Systems:

1. "Akaroa2: a controller for distributed stochastic simulation", offered as freeware for non-profit research activities at universities; see
www.cosc.canterbury.ac.nz/research/RG/net_sim/simulation_group/akaroa/about.shtml
(since 1 May 2001: 1264 downloads registered by users from over 80 countries <on Nov 11, 2007>)

8. Professional publications, reports and theses (refereed):

20. T. Hossfeld, K. Leibnitz, R. Rastin, R. Pries, K. Tutschku, P. Tran-Gia and K. Pawlikowski. "Information Diffusion in eDonkey Filesharing Networks". University of Wuerzburg, Institute of Computer Science, Research Report series, Report No 341, Sept. 2004.
19. W. Kennedy, K. Pawlikowski and R. Lynders. "Methodology of Stochastic Simulation for Studying Nonstationary Behaviour of Telecommunication Networks. Report for Telecom New Zealand". Tech. Rep. COSC 02.94, Univ. of Canterbury, Christchurch, 1994, 182 pages
Reviewed by the Telecom New Zealand, and accepted as the final report on the research project sponsored by the Telecom New Zealand.
18. K. Pawlikowski and V. Yau. "Methodology of Stochastic Simulation for Performance Evaluation of Data Communication Networks. Report for Telecom New Zealand". Tech. Rep. COSC 03.93, Univ. of Canterbury, Christchurch, 1993, 90 pages
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17. K. Pawlikowski, V. Yau and D. McNickle. "The Final Report on R&D Investigations of Experimental Control for Simulation: Part II. Report for Telecom Australia Research Labs". Tech. Rep. COSC 01.93, Univ. of Canterbury, Christchurch, 1993, 114 pages
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11. K. Pawlikowski et al. "Software System for a Model of Telegraph Switching Central Based on PDP11 Computer and Propositions of Improvement of Reliability". Tech. Rep. 06.2, Inst. Telekomunikacji, Technical Univ. of Gdansk, Gdansk, 1977, 182 pages (in Polish).
10. K. Pawlikowski et al. "Simulation of Computer Communication Networks". Tech. Rep. PW06.5.1, Inst. Telekomunikacji, Technical Univ. of Gdansk, Gdansk, 1975, 230 pages (in Polish).
9. K. Pawlikowski. "Analysis of Message Delays in Nodes of Computer Communication Networks with Packet Switching". Tech. Rep. PW06.1.3, Inst. Telekomunikacji, Technical Univ. of Gdansk, Gdansk, 1975, 55 pages (in Polish).
8. K. Pawlikowski et al. "Analytical Models of Computer Communication Networks". Tech. Rep. PW 06.5.1, Institute Telekomunikacji, Technical Univ. of Gdansk, Gdansk, 1975, 276 pages (in Polish).
7. K. Pawlikowski. "Performance Modelling of Slotted Loop Computer Communication Networks". PhD thesis, Inst. Computer Engineering, Technical Univ. of Gdansk, Gdansk, 1975, 211 pages (in Polish).
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5. K. Pawlikowski. "Computer Communication Networks: a Survey". Tech. Rep. PW06.1.1, Inst. Telekomunikacji, Technical Univ. of Gdansk, Gdansk, 1974, 44 pages (in Polish).
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1. K. Pawlikowski. "Control of Large Dynamic Systems by the Method of Aggregation of States". M.Eng. thesis, Inst. Computer Engineering, Technical Univ. of Gdansk, Gdansk, 1968, 78 pages (in Polish).

9. Some professional reports (non-refereed):

12. L. Begg, W. Liu, K. Pawlikowski, S. Perera and H. Sirisena. "Survey of simulators of Next Generation Networks for Studying Service Availability and Resilience". Technical Report TR-COSC 05/06, Univ. of Canterbury, Christchurch, 2005, 76 pages.
11. H.-D. Jeong, D. McNickle and K. Pawlikowski. "Comparison of Various Estimators of Hurst Parameter in Simulated FGN". Technical Report TR-COSC 02/06, Univ. of Canterbury, Christchurch, 2005, 25 pages.
10. M. Schoo, K. Pawlikowski and D. McNickle. "A Survey and Empirical Comparison of Modern Pseudo-Random Number Generators for Distributed Stochastic Simulations". TR-COSC 03/05, Univ. of Canterbury, Christchurch, 2005, 18 pages

Results of the research project conducted with support of a UoC Undergraduate Summer Scholarship

9. A. Roxburgh, K. Pawlikowski and D. McNickle. "Grid Computing: the Current State and Future Trends (in general and from the University of Canterbury's perspective)". TR-COSC 01/04, Univ. of Canterbury, Christchurch, 2004, 13 pages
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8. J.-S. R. Lee, K. Pawlikowski and D. McNickle. "Interval Estimators of Proportions in Coverage Analysis of Simulation Output Results". Proc. 36th Annual Conference of Operations Research Society of New Zealand, ORSNZ'2002 (Christchurch, New Zealand, Dec. 2001), 2001, 173-181.
7. H.-D. J. Jeong, K. Pawlikowski and D. McNickle. "Hurst Parameter Estimation techniques: A Critical Review". Proc. 36th Annual Conference of Operations Research Society of New Zealand, ORSNZ'2002 (Christchurch, New Zealand, Dec. 2001), 2001, 165-172
6. A. Haider, H. Sirisena, K. Pawlikowski and M. J. Ferguson. "Congestion Control Algorithms in High Speed Telecommunication Networks". Proc. 36th Annual Conference of Operations Research Society of New Zealand, ORSNZ'2002 (Christchurch, New Zealand, Dec. 2001), 2001, 88-97
5. K. Pawlikowski, T. Bell, A. H. Emberson and P. Ashton. "Compression of data traffic in packet-based LANs". Proc. IEEE Data Compression Conf., Utah, March 1995, IEEE Press, pp.430.
4. K. Pawlikowski. "On 'Network Security' by M. Devargas". In: Book Reviews, *Australian Computer J.*, Feb. 1995, p.31
3. K. Pawlikowski. "Deserves a place on the bookshelf". Review of "Performance Modelling of Communication Networks and Computer Architectures by P. G. Harrison and N. M. Patel". In: Book Reviews, *Computer Communications*, vol.17, no. 11, Nov. 1994, pp.820.
2. K. Pawlikowski. "On 'Modelling Techniques and Tools for Performance Analysis '85' by Alan El Ata (ed.)". In: Book Reviews, *Australian Computer J.*, Nov. 1987, pp. 232-233
1. K. Pawlikowski. *Wprowadzenie do Sieci Komputerowych*. PWN, Warszawa, 1976 (translation of *Computer Communication Networks*, eds. N. Abramson and F. Kuo, Prentice-Hall, 1973)

10. Invited Lectures, Research Seminar Talks and Tutorials

I have given eight invited talks at international conferences, as well as over 110 lectures or seminar talks at over 70 different universities in Australia, Asia, Europe and North America.

57. "Quantitative Computer Simulation as a Paradigm of Scientific Investigations":
 - School of Computer Science, University of Nevada at Las Vegas, NV, USA, October 2008
 - Faculty of Information Technology, University of Technology, Sydney, Australia, June 2008
 - ARC Special Research Centre for Ultra-Broadband Information Networks (CUBIN), Univ. of Melbourne, AUSTRALIA, November 2007
 - LIP6 Laboratory, University of Paris VI in Paris, France, October 2007
56. "Introduction to Accurate Stochastic Discrete-Event Simulation". A half-day tutorial at 2007 ACS/IEEE Int. Conf. on Computer Systems and Applications, AICCSA '2007, in Amman, Jordan, May 2007
55. "Discrete-Event Computer Simulation as a Paradigm of Scientific Investigations". Keynote Speech at 2007 ACS/IEEE Int. Conference on Computer Systems and Applications. AICCSA'2007, in Amman, Jordan, May 2007
54. "Towards Credible and Fast Quantitative Stochastic Simulation Studies of the Internet and Related Telecommunication Networks", presented at:
 - Faculty of Telecommunication, AGH University of Technology, Krakow, Poland, May 2006
 - Faculty of Electrical Eng., Automatics & Computer Science, Kielce Univ. of Technology, Kielce, Poland, June 2006
53. "Stochastic Simulation and Its Applications in Performance Evaluation Studies of Telecommunication Networks", a series of lectures for Ph.D. students given at:
 - Department of Electronic Eng, Technical University of Torino, Italy,

- Ph.D. School of the Faculty of Informatics and Electrical Eng, Technical Univ. of Berlin, Germany, April 2006
- Ph.D. School in Informatics of Aachen Academy of Technology (RWTH), Aachen, Germany, May 2006
- 52. “Stochastic Simulation”, in the Ph.D. School of the Institute of Advanced Studies, University of Genoa, Italy, March 2006.
- 51. “Distributed Quantitative Stochastic Simulation”, in Dept of Information Eng and Telecommunication, University of Catania, Italy, March 2006
- 50. “Towards Credible and Fast Quantitative Stochastic Simulation of Telecommunication Networks”, presented at:
 - Faculty of Informatics, University of Würzburg, Germany, May 2004
 - Dept. Technical Informatics and Telecommunication Networks, ETH, Zurich, Switzerland, May 2004
 - Laboratory of Informatics, University of Paris VI, Paris, France, May 2004
 - Faculty of Informatics and Electrical Eng., Technical University of Berlin, Germany, May 2004
 - Department of Computer Science, Technical Univ. of Poznan, Poland, June 2004
 - a joint seminar of the Dept. of Informatics and Institute of Intelligent Production and Logistics Systems, University of Bremen, Germany, June 2004
- 49. "Can We Trust All Simulation Studies of Telecommunication Networks ?". Invited paper at the opening of the Int. Scientific Meeting of COST276, the European Research Program on Networks' Control, Paris, France, May 2004
Conference participants: invited scientists from 29 European countries participating in COST 276, a research program of EU
- 48. “Advances in Distrubuted Stochastic Simulation”, presented at Dept. of Informatics (Distributed Systems), University of Würzburg, Germany, May 2004
- 47. “Overview of the Basic Problems of Stochastic Simulation of Telecommuncation Networks”, presented in Dept. of Informatics (Distributed Systems), University of Würzburg, Germany, April 2004
- 46. “Distributed Quantitative Stochastic Simulation”. The key-note talk of the Int. Conference on Design, Analysis and Simulation of Distributed Systems, DASD’03, Orlando, USA, March 2003
(a major international conference on computer simulation organized by the ISCS and ACM).
- 45. “Do Not Trust All Simulation Studies of Telecommunication Networks”. Invited talk presented at the opening of the Int. Conf. on Information Networking, ICOIN’03, Jeju Island, South Korea, February 2003.
- 44. “Simulation Studies of the Internet and Other Telecommunication Networks’. Invited talk of the 7th Annual Teletraffic Workshop in Grampians, Victoria, December 2002
(an annual research workshop organized by the University of Melbourne and University of Adelaide, Australia)
- 43. “Automation of Simulation Studies of Telecommunication Networks”. Invited lecture, Allied Telesys Research, Christchurch, August 2002.
- 42. “Credibility of Simulation Studies of the Internet and Other Telecommunication Networks”, presented at:
 - Department of Electrical and Electronic Eng., University of Melbourne, Australia, Feb. 2002
 - Department of Computer Science, Monash University, Melbourne, Australia, Feb. 2002
 - Teletraffic Research Centre, University of Adelaide, Adelaide, Australia, Feb. 2002
 - Department of Computer Science & Software Eng., Univ. of WA, Perth, Australia, Feb. 2002
 - Department of Information Engineering, Chinese Univ. of Hong Kong, Hong Kong., Feb. 2002
 - Computing Laboratory, Imperial College, University of London, London, UK, Feb. 2002
 - Dept. of Communications, Computers and Systems Science, Univ. of Genoa, Italy, March 2002
 - Dept. of Electronic and Information Eng., University of Milano, Milano, Italy, March 2002
 - Italian National Laboratory for Multimedia Communications, Napoli, Italy, March 2002
 - Italian Research Centre on Telecommunication Networks, Pisa, Italy, March 2002
 - Department of Distributed Computer Systems, Technical Uni. of Gdansk, Poland, April 2002

- Department of Computer Science, University of Hannover, Hannover, Germany, May 2002
- 41. "Basic Conditions of Credibility of Stochastic Simulation in Performance Evaluation of Telecommunication Networks", presented at:
 - Department of Computer Science, Technical University of München, Germany, Nov. 1999
 - Department of Electronic Engineering, Technical University of Torino, Italy, May 2000
 - Dept. Econometrics and Information Systems, Tilburg University, the Netherlands, June 2000
- 40. "Akaroa2: Exploiting Network Computing by Distributing Stochastic Simulation", presented at:
 - Department of Computer Science, Technical Univ. of Würzburg, Germany, Nov. 1999,
 - Dept. Econometrics and Information Systems, Tilburg University, the Netherlands, June 2000
- 39. "Automation of Distributed Quantitative Stochastic Simulation", presented at:
 - Dept. of Computer Science, Univ. of Trier, Germany, Oct. 1999
 - Department of Information Systems, Academy of Economy, Poznan, Poland, June 2000.
- 38. "On Credibility of Simulation Studies of Telecommunication Networks". Invited paper at the 2nd Int. Scientific Workshop of the Center for Network Optimisation (Aachen, Germany, Oct. 7-8, 1999). *Conference organizers: NORTEL, Aachen Academy of Technology, Univ. of Trier and Univ. of Würzburg, Germany.*
- 37. "Distributed Quantitative Stochastic Simulation". Invited lecture at the opening of the 6th Workshop of the Polish Society for Computer Simulation, in Bialystok, Poland, August 25-27, 1999 (*and the celebration of the 10th Anniversary of Bialystok University of Technology, Poland*)
- 36. "Simulation Studies of Telecommunication Networks and Their Credibility". Invited paper at the SCS Conf. on Applications of Simulation in Telecommunications, a part of the European Simulation Multiconf. (ESM'99), Warsaw, Poland, June 1999.
- 35. "Quantitative Stochastic Discrete-Event Simulation": a series of four invited lectures at
 - GMD FOKUS (German National Research Center for Information Technology) in Berlin, Germany, Jan. 1997
 - Dept. of Computer Science, Technical Univ. of Berlin, in Berlin, Germany, March 1997
- 34. "Problem of Transient Non-stationarity in Steady-State Simulation", presented at:
 - Dept. of Computer Science, Univ. of Bremen, March 1997
 - Dept. Computer Science, Univ. of Würzburg, Würzburg, Germany, March 1997
 - Institute of Automation, University of Rostock, Rostock, Germany, March 1997
 - Dept. of Information Eng., Univ. of Pisa, Pisa, Italy, April 1997
 - Dept. of Electronic Eng., Univ. of Torino, Torino, Italy, April 1997
- 33. "Multiple Replications in Parallel: a Novel Scenario of Quantitative Stochastic", presented at:
 - Dept. of Computer Eng., Technical Univ. of Gdansk, Poland, Feb. 1997
 - Dept. of Computer Science, Univ. of Hamburg, Hamburg, Germany, February 1997
 - Dept. of Computer Science, Univ. of Munich, Munich, Germany, March 1997
 - Dept. of Information Systems, Tilburg University, the Netherlands, March 1997,
 - Research Center for Innovative Technologies, Pisa, Italy, April 1997
 - Dept. of Electronic Eng., Univ. of Florence, Florence, Italy, April 1997
 - Dept. of Computer and Electronic Eng., Univ. of Padova, Padova, Italy, April 1997
 - Dept. of Comms, Computer and Systems Science, Univ. of Genova, Italy, April 1997
 - Dept. of Electronic Eng., Univ. of Milano, Milano, Italy, April 1997
 - Dept. of Electrical Eng., Technical Univ. of Aachen, Aachen, Germany, May 1997
- 32. "The state-of-art in simulation of telecommunication networks", invited talk as an expert during the IEEE INFOCOM'96, San Francisco, March 1996
This invited talk, followed by a panel discussion (between me and three other, well known, experts on simulation modeling and analysis of telecommunication networks) was recorded (filmed) by the organizers, and later distributed by the IEEE. The IEEE INFOCOM is the most prestigious annual conference of the IEEE society on research in the area of data communication networks.
- 31. "Credibility of Results from Quantitative Stochastic Simulation", presented at:
 - Dept. Computer Science, Technical Univ. of Aachen, Aachen, Sept. 1995

- Dept. of Mathematics and Statistics, Technical University of Berlin, Germany, Sept.1995
 - Franco-Polish School of Advanced Network Technology, Poznan, Poland, Sept. 1995
30. "Distributed Stochastic Discrete-Event Simulation in Parallel-Time Streams", presented at:
- Monash University, Dept. of Computer Science, Melbourne, Australia, Nov. 1994
 - Dept. Computer Eng., Univ. of California in Santa Cruz, USA, Dec.1994
 - Dept. Computer Science, Univ. of California in Davis, USA, Dec.1994
 - Dept. Computer Science, Univ. of North Carolina in Charlotte, USA, Dec.1994
 - Dept. Electrical and Computer Eng., Univ. of Hawaii in Manoa, USA, Jan. 1995
 - Dept. Computer Science, University of NSW, Sydney, Australia, Jan. 1995
 - Research Centre of Microsoft Australia, Sydney, Australia, Jan. 1995
 - Dept. Computer Science, Univ. of Wollongong, Australia, Jan. 1995
 - Dept. Electrical Eng., ADFA, Canberra, Australia, Jan. 1995
 - School of Information Technology, Bond Univ., Gold Coast, Australia, Feb. 1995
 - Dept. Computer Science, Deakin Univ., Geelong, Australia, Feb.1995
29. "Sequential Analysis of Output data in Quantitative Steady-State Simulation", presented at:
- Dept. Mathematics, Univ. of Maryland, Park College, USA, Jan.1995
 - Dept. Electrical and Computer Eng., Univ. of Melbourne, Australia, Feb.1995
28. "Quantitative Simulation Studies of Nonstationary Behaviour of Telecommunication Networks", presented at:
- Dept. Computer Science, Technical Univ. of Aachen, Aachen, Oct.1994
 - Dept. Computer System Eng., RMIT, Melbourne, Australia, Nov. 1994
 - Int. Computer Science Institute, Univ. of California at Berkeley, USA, Dec.1994,
 - Dept. Electrical and Computer Eng., Clemson Univ., South Carolina, USA, Dec.1994.
27. "On the Initial Transient Period of Quantitative Steady-State Simulation", presented at:
- Dept. Computer Science, Univ. of Frankfurt, Frankfurt, Germany, Oct.1994
 - AOTC Research Labs, Melbourne, Australia, Nov.1994
26. "Distributed Quantitative Stochastic Simulation". Dept. of Electrical and Electronic Eng., Univ. of Canterbury, Oct. 1993.
25. "Automation of Quantitative Stochastic Simulation". Dept. Mathematics and Statistics, Univ. of Canterbury, Sept. 1993.
24. "Parallel Quantitative Stochastic Simulation in AKAROA". AOTC Research Labs, Melbourne, Australia, Feb. 1993.
23. "Computer Science Education at Universities in New Zealand". Dept. Electronics Telecommunication and Informatics, Technical Univ. of Gdansk, Gdansk, Poland, Nov. 1992
22. " Parallel Processing and Its Applications in Quantitative Discrete-Event Simulation". Dept. Electronics, Telecommunication and Informatics, Technical Univ. of Gdansk, Gdansk, Poland, Nov. 1992
21. "Automation of Quantitative Parallel Stochastic Simulation", presented at:
- National Research Centre of Data Communication Networks, Berlin, Germany, Nov. 1992
 - Dept. Computer Science, Technical Univ. of Dresden, Dresden, Germany, Nov. 1992
20. "High-Speed Fiber-Optic Data Communication Networks and their Performance Evaluation", presented at:
- National Research Centre of Data Communication Networks, Berlin, Germany, Nov. 1992
 - Dept. Computer Science, Technical Univ. of Dresden, Dresden, Germany, Nov. 1992
19. "Output Data Analysis in Parallel Stochastic Simulation". AOTC Research Labs, Melbourne, Australia, July 1992.
18. "Output Data Analysis in Stochastic Steady-State Simulation". Dept. Electrical and Electronic Eng., Univ. of Auckland, Auckland, February 1992
17. "A General Queueing Model for Packet Switching in Time Slotted Channels: an $M^b/D/C$ Queue with Periodically Available Servers", presented at:
- Dept. Computer Science, Univ. of Würzburg, Würzburg, Germany, June 1991

- Institute of Computer Systems and Switching, Univ. of Stuttgart, Germany, June 1991
- Dept. Electrical Engineering, Politecnico di Milano, Milano, Italy, June 1991
- Computer Laboratory, Univ. of Cambridge, Cambridge, England, July 1991
- Faculty of Information Technology, Univ. of Kent, Canterbury, England, July 1991
- 16. "Sequential Analysis of Output Data in Stochastic Steady-State Simulation", presented at:
 - Dept. Electrical Eng., Univ. of Hawaii at Manoa, Honolulu, USA, April 1991
 - Institute of Telecommunications, Technical Univ. of Poznan, Poland, May 1991
 - Dept. Electronic Eng., Technical Univ. of Gdansk, Gdansk, Poland, May 1991
 - Dipartimento di Informatica, Sistemistica e Telematica, Univ. of Genova, Italy, June 1991
 - IBM European Networking Center, Heidelberg, Germany, June 1991
 - Institute of Electronic Systems and Switching, Univ. of Dortmund, Germany, June 1991
 - Information Technology Institute, Univ. of Salford, Salford, England, July 1991
 - Computer Laboratory, Univ. of Cambridge, Cambridge, England, July 1991
- 15. "Algorithms for Sequential Estimation in Discrete-Event Steady State Simulation". Nat. Univ. of Singapore, Dept. Electrical Eng., Singapore, Nov. 1990.
- 14. "Spectral Analysis of Confidence Intervals in Steady-State Simulation". Telecom Research Laboratories, Melbourne, Australia, May 1990.
- 13. "Statistical Analysis of Simulation Output Data". Telecom Research Laboratories, Melbourne, Australia, May 1990.
- 12. "Methodology of Automatically Controlled Stochastic Simulation". Dept. Electrical and Electronic Eng., Univ. of Canterbury, Christchurch, May 1989
- 11. "A General Model of Packet Switching Buffers: An $M^b/D/C$ Queue with Periodically Available Servers. A Survey of Results and Problems", presented at:
 - Dept. Electrical and Computer Eng., Univ. of California in Davis, USA, Jan. 1989,
 - Telecom Australia Research Labs, Melbourne, Australia, Feb. 1989
- 10. "Sequential Analysis of Output Data in Discrete-Event Steady-State Simulation", presented at:
 - Dept. Electrical and Computer Eng., Clemson Univ., South Carolina, USA, Oct. 1988
 - Dept. Mathematics, Univ. of Maryland, Park College, USA, Dec. 1988
 - Computer Science Dept., Purdue Univ., West Lafayette, USA, Dec. 1988
 - Institut Nat. de la Recherche Scientifique, Univ. of Quebec, Montreal, Canada, Jan. 1989
 - Dept. Electrical Eng., Univ. of Waterloo, Waterloo, Canada, Jan. 1989
 - Dept. Computing Science, Univ. of Alberta, Edmonton, Canada, Jan. 1989
 - Dept. Electrical Eng. Systems, Univ. of Southern California, LA, USA, Jan. 1989
 - Dept. Electrical Eng., Univ. of Queensland, St. Lucia, Australia, Jan. 1989
 - Basser Dept. of Computer Science, University of Sydney, Sydney, Australia, Feb. 1989
 - Dept. Computer Science, Australian Defence Forces Academy, Canberra, Australia, Feb. 1989
 - Dept. Computer Science, Monash Univ., Melbourne, Australia, Feb. 1989
 - Dept. Computer Science, La Trobe Univ., Melbourne, Australia, Feb. 1989
- 9. "Analysis of Output Data from Stochastic Simulation Experiments. Survey of Problems and Solutions". Dept. Electrical Eng., Technical Univ. of Torino, Italy, June 1988
- 8. "How to Launch a Queueing System into a Stationary Orbit", presented at:
 - Dept. Computer Science, Univ. of Victoria, Wellington, New Zealand, Nov. 1986;
 - Massey Univ., Dept. Computer Science, Palmerston North, New Zealand, Nov. 1986.
- 7. "Various Approaches to Analysis of a Queue of Packets". Dept. of Computer Science, Univ. of Frankfurt, Frankfurt am Main, Germany, Oct. 1983.
- 6. "Performance Evaluation of Access Protocols to Slotted Ring Networks". Dept. of Computer Science, University of Frankfurt, Frankfurt am Main, Germany, May 1983.
- 5. "Decentralized Control Schemes in Local Computer Communication Networks". Research Inst. of Telecommunication, Dresden, Germany, Dec. 1982.
- 4. "Computer Communication Networks: Their Evolution, Interfaces and Status". Polish Society of Cybernetics, Gdansk, Poland, Dec. 1981 (in Polish).

3. "Analysis and Modelling Loop Communication Networks". The 5th Int. Winterschool on Computer Networks, Wroclaw, Poland, Nov. 1981, (in Polish).
2. "Local Computer Communication Networks. A Survey". The 5th Int. Winterschool on Computer Networks, Wroclaw, Poland, Nov. 1981 (in Polish).
1. "Buffering Problems in Computer Communication Networks". The 3rd Polish-Czechoslovakian Winterschool on Computer Networks Design, Karpacz, Poland, 1979 (in Polish).