Prof. Krzysztof Pawlikowski

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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).

Invited Lectures, Research Seminar Talks and Tutorials
In total: ten invited talks at international conferences, and over 120 lectures or seminar talks at over 80 different universities in Australia, Asia, Europe and North America (as on 31 Dec 2013).

66. "Fast and Credible Quantitative Discrete-Event Simulation":
- School of Electronics and Telecommunications, Hanoi University of Science and Technology, Hanoi, Vietnam, August 2012

65. "Quantitative discrete-event computer simulation as a credible paradigm of scientific investigations", a half-day tutorial at the Fourth International Conference on Communications and Electronics 2012 (ICCE 2012), Hue, Vietnam, August 2012.

64. "Quantitative Simulation of Networks: on-line analysis of statistical errors":
- invited talk at Swedish Workshop on "Survivability and Security Issues in All-optical Networks", Royal Institute of Technology (KTH) in Stockholm, Sweden, May 2011

63. "Pseudo-random Generators for the 21st Century":
- School of Information and Communication Technology, Royal Institute of Technology (KTH) in Stockholm, Sweden, May 2011

62. "Quantitative Computer Simulation as a Paradigm of Scientific Investigations":
- School of Information Technology, Deakin University, Geelong, Australia, October 2011
- School of Engineering Science, Simon Fraser University in Vancouver, June 2011
- Institute of Computer Science, Krakow University of Technology, Poland, June 2011
- Department of Computer Communications, Gdansk University of Technology, Poland, June 2011
- Department of Statistics, Hebrew University of Jerusalem, Israel, May 2011
- School of Computer Science, University of Nottingham, UK, May 2011
- Computer Laboratory, Cambridge University, UK, May 2011
- School of Computing and Technology, University of West London, UK, May 2011
- School of Computer Science & Software Engineering, University of Western Australia, WA, April 2011
- School of Engineering, Edith Cowan University, WA, April 2011
- invited lecture at Universiti Malaysia Perlis, in Perlis, Malaysia, June 2010
- invited talk at at Int. Workshop on G/MPLS Networks (WNG8), in Girona, Spain, June 2009

61. "Stochastic Simulation of Telecommunication Networks", a series of 15 lectures for research students of Computer Science at the University of Wuerzburg, Germany, May 2009

60. "Discrete-Event Computer Simulation as a Paradigm of Scientific Investigations":
- Department of Computer Science, University of Sevilla, Sevilla, Spain, June 2009
- Department of Telematics Engineering, Universidad Carlos III de Madrid, Spain, June 2009
- Department of Cybernetics, Wroclaw University of Technology, Wroclaw, Poland, May 2009

- Faculty of Electronics, Informatics and Telecommunications, Gdansk University of Technology, Gdansk, Poland, May 2009
- Department of Measurements and Information Systems, Budapest University of Technology and Economics, Hungary, April 2009

59. "Stochastic Simulation for Performance Evaluation of Telecommunication Networks", a series of 20 lectures for students of Euro-NF Center of Excellence, PhD course at University of Vienna, Austria, April 2009
    < http://euronf.enst.fr/p_en_Events_Events2009_PhDcourses_416.html>

58. "ITC Research at the University of Canterbury", a talk at the 2008 EU ICT Conference in Lyon, France, Nov. 2008

57. "Quantitative Computer Simulation as a Paradigm of Scientific Investigations":
- Department of Computer Systems, University of Nevada in Las Vegas, USA, October 2008
- Faculty of Information Technology, University of Technology in Sydney, Australia, June 2008
- LIP6 Laboratory, University of Paris VI in Paris, France, October 2007
- ARC Special Research Centre for Ultra-Broadband Information Networks (CUBIN), Univ. of Melbourne, AUSTRALIA, November 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: invitated 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 Enginerering, 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". <u>Invited paper</u> 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 199735.

32. "The state-of-art in simulation of telecommunication networks", <u>invited talk</u> as an expert during the IEEE INFOCOM¹96, San Francisco, March 1996

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 Wollogong, 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, Sistematica 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).