STAFF CURRICULUM VITAE

Name: GEMIKONAKLI,   Prof Orhan

Current Post

- Honorary professor Middlesex university London, UK.

Past Position

- Head of Department, Computer and Communications Engineering and Full professor
- Responsible of international relationship at university level
- School of Engineering and Information Sciences, Middlesex University

Education

- Lefke Gazi Lycee, Cyprus
- 1970-76

- Higher Technological Institute, Cyprus
- 1980-84

- King's College, London
- 1984-89

- Middlesex University
- 1999-2001

Qualifications

- BEng in Electrical Engineering
  Higher Technological Institute (now Eastern Mediterranean University)
  1984

- MSc in Digital Electronics, Computers and Communications
  King's College, University of London
  1985

- PhD in Electronic communications:
  - Investigating the performance of spectrally efficient digital modulations schemes (e.g. M-ary CPSK and QAM) transmitted through non-linear satellite and terrestrial

channels in inter-symbol interference, Gaussian and non-Gaussian impulsive noise and co-channel interface environment.

- King's College, London

  January 1990

- PGCert (HE)

  Middlesex University

  2001

Membership of Professional Bodies and Learned Societies

- MIET

  The Institute of Electrical Engineers

  1994

- CEng

  The Engineering Council

  1994

Career Details

Sept 2013
to date

Professor of Telecommunications

Aug 2007
to date

Head of Department, Computer Communications, Middlesex University

Jan - Aug
2007

Acting Academic Group Chair (CCM)

2001-2007

Postgraduate Curriculum Leader, Computer Communications

School of Computing Science, Middlesex University

2003 to
date

Principal Lecturer in Computer Communications

School of Computing Science & School of Engineering and Information Sciences, Middlesex University

1997-2003

Senior Lecturer in Computer Communications

School of Electronic Engineering & School of Computing Science, Middlesex University

1994 to   MSc Telematics & MSc Computer Networks Programme Leader
2004   School of Electronic Eng. & School of Computing Science, Middlesex
              University

1994-97 Leader of the Signal Processing Research Group
              School of Electronic Engineering, Middlesex University

1992-1997 Project Coordinator for Undergraduate Programmes
              School of Electronic Engineering, Middlesex University

1991-97   Senior Lecturer in Digital Communications
              School of Electronic Engineering, Middlesex Polytechnic/University

1990-91   Lecturer in Digital Communications
              School of Electronic Engineering, Middlesex Polytechnic

1989-90   Post-doctoral research associate in Communications
              King's College London

1986-90   Supervising students' experiments & projects
              King's College London

1985-86   Senior Lecturer
              Eastern Mediterranean University, Famagusta, Cyprus

1984   Assistant Editor
              Ortam Publications

1981   Electrical Technician
              BEM Cement Factory, Famagusta, Cyprus

Research and Scholarly Activity

Research:

- Performability modelling of computer networks: To develop mathematical models to evaluate the performance of multi-server network systems. Recent work includes work on multi-server systems with break-downs, reconfiguration and rebooting delays, and various repair strategies and performability of Beowulf clusters. A novel technique has been developed to ease the *state space expansion* problem in analytical models.

- Performability modelling of wireless sensor networks: Work is in progress in developing accurate models for the performability evaluation of wireless sensor networks.

- Network security: The development of effective security mechanisms/models/frameworks and protocols for both traditional and wireless networks.

- Modelling cellular systems and WLANs, and channel simulation.

Teaching, curriculum & programme development

The development and teaching of various modules.

UG teaching (BEng Electronic Engineering, HND Electronics, MEng in Electronic Product Design, BSc Computer Networks, BSc Computer Networks (Mobile Computing): Digital Communications (Level 6: 1990-98, Level 5: 1992-97), Analogue Communications (Level 5, 1990-1997), Analogue and Digital Signal Processing (Level 6: 1990-97), Multimedia (Level 6, 1997), Computer Networks (Level 4), Protocols and Implementation (Level 5, 2007-08), Protocols and Implementation (Level 5, 2007-08), and Wireless LANs and Mobile Computing (Level 5, 2009-10, and 2012-13), Host Operating Systems and Security (Level 5, 2010-11).

PG Teaching (MSc Sensors, MSc Telematics, MSc Computer Networks, MSc BIT): Telematics Systems and Services (1994-1995), Design of Telematics Systems/Network Design (1994-2005), Computer Networks (1994-1998), OOP Programming, Programming for Computer Networks (1997-2003), Network Operating Systems (1997-2001), Network Modelling and Simulation (2004-2007), Network Design, Modelling and Simulation (2007-2010), Programming for Telecommunication (2009-2011), Digital Transmission Systems (2009-2011), Network Systems and Services (2011-2012).

Leadership in Academic Programme Development: MSc Telematics, MSc Computer Networks, MSc Computer Network Management, MSc Computer and Network Security, MSc Professional Network Engineering (Portfolio Based), MSc Telecommunication Engineering, and MSc Mobile Telecommunication Engineering (Portfolio Based).

Accreditations:

Successfully represented the School of Electrical and Electronic Engineering in IEE accreditation of BEng Electronic Engineering and BEng Electronic Engineering and Management Programmes (1993).

Team Leader in the successful BCS accreditation of MSc Computer Networks and MSc Computer Network Management (2006).

BCS accreditation for all UG and PG programmes offered by the Computer Communication Department (November 2011).

Public Output from Research and Scholarly Activity

Journal Publications:

1. Krishna Doddapaneni, Ali Tasiran, Fredrick A. Omondi, Enver Ever, Purav Shah, Leonardo Mostarda, Orhan Gemikonakli: Does the assumption of exponential arrival distributions in wireless sensor networks hold? IJSNet 26(2): 81-100 (2018)

2. Ramona Trestian, Purav Shah, Huan Xuan Nguyen, Quoc-Tuan Vien, Orhan Gemikonakli, Balbir S. Barn: Towards connecting people, locations and real-world events in a cellular network. Telematics and Informatics 34(1): 244-271 (2017)

3. Eser Gemikonakli, Enver Ever, Glenford Mapp, Orhan Gemikonakli: Admission control and buffer management of wireless communication systems with mobile stations and integrated voice and data services. Telecommunication Systems 65(4): 663-675 (2017)

4. Quoc-Tuan Vien, Huan Xuan Nguyen, Ramona Trestian, Purav Shah, Orhan Gemikonakli: A Hybrid Double-Threshold Based Cooperative Spectrum Sensing over Fading Channels. IEEE Trans. Wireless Communications 15(3): 1821-1834 (2016)

5. Arindam Ghosh, Vishnu Vardhan Paranthaman, Glenford E. Mapp, Orhan Gemikonakli, Jonathan Loo:Enabling seamless V2I communications: toward developing cooperative automotive applications in VANET systems. IEEE Communications Magazine 53(12): 80-86 (2015)

6. Esmat Mirzamany, Aboubaker Lasebae, Orhan Gemikonakli:Comparison between resource reservation protocol and next steps in signalling in mobile IP networks. IET Networks 4(2): 83-92 (2015)

7. Yonal Kirsal, Enver Ever, Altan Koçyigit, Orhan Gemikonakli, Glenford E. Mapp: Modelling and analysis of vertical handover in highly mobile environments. The Journal of Supercomputing 71(12): 4352-4380 (2015)

8. Quoc-Tuan Vien, Brian G. Stewart, Huan X. Nguyen, and **Orhan Gemikonakli**, (2014), "Distributed Space-Time-Frequency Block Code for Cognitive Wireless Relay Networks", IET Communications, 8 (5). pp. 754-766. ISSN 1751-8628, , DOI:10.1049/iet-com.2013.0374

9. Ever, E., **Gemikonakli, O.**, Kocyigit, A., and Gemikonakli, E., "A Hybrid Approach to Minimize State Space Explosion Problem for the Solution of Two Stage Tandem Queues", Journal of Network and Computer Applications (JNCA), 2012, http://dx.doi.org/10.1016/j.jnca.2012.10.006, ISSN: 1084-8045.

10. Carlene E-A Campbell, Kok-Keong Loo, Shafiullah Khan, **Orhan Gemikonakli**, and Dhananjay Singh, (2011), "Multi-channel Distributed Coordinated Function over Single Radio for Wireless Sensor Networks", Sensors 2011, 11(1), 964-991; doi: 103390/s110100964, ISSN 1424-8220

11. Mapp, G., Thakker, D., and **Gemikonakli, O.**, (2010), "Exploring Gate-Limited Analytical Models for High Performance Network Storage Servers", Journal of Computer and System Sciences, PMECT/ICCCN 2009 Special Issue, J. Comput. System Sci. (2010), doi:10.1016/j.jcss.2010.08.002

12. **Gemikonakli, O.**, Ever, E., and Kocyigit, A., (2009), "Approximate Solution for Two Stage Open Networks with Markov-modulated Queues Minimizing the State Space Explosion

Problem", The Journal of Computational and Applied Mathematics (JCAM), **Vol 223**, Issue 1, pp.519–533,

13. Ever, E., **Gemikonakli, O.,** and Chakka, R., (2009), "Exact Solution to Performability Models and Computations for Typical and Highly Available Beowulf Clusters", The International Journal of Simulation Modelling Practice and Theory (SIMPAT), **Vol 17**, Issue 2, February 2009, pp. 327-347, http://dx.doi.org/10.1016/j.simpat.2008.08.016,

14. Chakka, R., Ever, E., **Gemikonakli, O.,** (2006) "An Approach to Modelling Open Networks with Unreliable Servers and Finite Buffers", WSEAS Transactions on Computers, **Vol 5**, Issue 11, November 2006, ISSN 1109-2750, pp.2536-2543

15. Eneh, A., and **Gemikonakli, O.,** (2005), "The Pre-emptive Protocol Design and Analysis: Hope for Secure Communication in Societies with Economic Deprivation", The International Journal of Technology, Knowledge and Society, **Vol 1,** Issue 5, 2005/2006, ISSN: 1832-3669, pp.35-42.

16. Brewster, B.D, Robertson, I.D, and **Gemikonakli, O.,** (1993), "Design and realisation of a reduced-sized microstrip 3dB rat-race hybrid coupler". Microwave and Optical Technology Letters, **Vol 6,** No 14, pp. 789-90.

17. Aghvami, A.H., **Gemikonakli, O.,** Kato, S. (1992), "Transmission of SDH signals through future satellite channels using high level modulation techniques". IEEE Journal of Selected Areas in Communications, **JSAC, Vol 10,** No 6, pp. 1030-1036.

18. **Gemikonakli, O.,** and Aghvami, A.H. (1989), "Impact of non-Gaussian noise on the performance of M-ary CPSK signalling transmitted through two-link non-linear channels". IEE Proc, **Part I,** No 5, pages 328-332.

19. Aghvami, A.H., **Gemikonakli, O.,** (1989), "16-ary QAM transmission through a two-link bandlimited non-linear satellite channel using a RF linearizer". IEE Electronic Letters, August 1989, **Vol 25,** No 16, pages 1055-1057.

20. **Gemikonakli, O.,** and Aghvami, A.H. (1989), "M-ary CPSK transmission through a two-link bandlimited non-linear satellite channel using an RF linearizer". IEE Proc, **Vol 136,** Pt I, No. 4, pages 291-297.

21. **Gemikonakli, O.,** and Aghvami, A.H (1988), "Power spectral density of M-ary CPSK signals transmitted through non-linear channels using an RF lineariser". IEE Electronics Letters, **Vol 24,** No 18, pages 1167-1169.

Contribution to Books:

22. Omondi, F. A., Ever, E., Shah, P., and **Gemikonakli, O.,** (2013),"Modelling Wireless Sensor Networks for Performability Evaluation", Ad-hoc, Mobile, and Wireless Networks, Series: Lecture Notes in Computer Science. J. Cichon´, M. Gebala, and M. Klonowski (Eds.): ADHOC-NOW2013, LNCS 7960, pp. 172–184, 2013. ©Springer-Verlag Berlin Heidelberg 2013

23. Navare, J., and **Gemikonakli, O.,** (2010), "Governance and Risk Management of Network and Information Security: The Role of Public Private Partnerships in Managing the Existing and Emerging Risks", Global Security, Safety, and Sustainability, Communications in Computer and Information Science Volume 92, 2010, pp 170-177, Springer Berlin Heidelberg, DOI: 10.1007/978-3-642-15717-2_19

24. Kirsal, Y., and **Gemikonakli, O.,** (2009), "Analysing the Kerberos Timed Authentication Protocol Using CSP-Rank Functions" in Novel Algorithms and Techniques In Telecommunications, Automation and Industrial Electronics, Chapter 45, pp.56-63, Springer Berlin Heidelberg, 2009, ISSN: 1865-0929 (Print) 1865-0937 (Online), DOI: 10.1007/978-3-642-04062-7_7

25. Kirsal, Y., and **Gemikonakli, O.,** (2008), "Further Improvements to the Kerberos Timed Authentication Protocol" in Global Security, Safety, and Sustainability, publisher Springer Berlin

Heidelberg, Chapter 44, 2008, ISBN: ISBN: 978-1-4020-6265-0 (Print) 978-1-4020-6266-7 (Online), DOI: 10.1007/978-1-4020-8737-0_99

26. Kirsal, Y., and **Gemikonakli, O.** , (2007), "An Authentication Protocol to Address the Problem of the Trusted 3rd Party Authentication Protocols" in Innovative Algorithms and Techniques in Automation, Industrial Electronics and Telecommunications, Chapter 18, Springer Netherlands, 2007, ISBN: 978-1-4020-6265-0 (Print) 978-1-4020-6266-7 (Online), 10.1007/978-1-4020-6266-7_95

27. **Gemikonakli, O.,** *"Computer Networks: Operation and Application"*, (2005), Editor: Aboubaker Lasebae, Middlesex University Press, ISBN: 1 898253 706

Refereed Conference Papers:

28. Clifford De Raffaele, Serengul Smith, Orhan Gemikonakli:An Active Tangible User Interface Framework for Teaching and Learning Artificial Intelligence. IUI 2018: 535-546 2017

29. Ramona Trestian, Purav Shah, Huan Xuan Nguyen, Quoc-Tuan Vien, Orhan Gemikonakli, Balbir S. Barn:Towards connecting people, locations and real-world events in a cellular network. Telematics and Informatics 34(1): 244-271 (2017)

30. Eser Gemikonakli, Enver Ever, Glenford Mapp, Orhan Gemikonakli:Admission control and buffer management of wireless communication systems with mobile stations and integrated voice and data services. Telecommunication Systems 65(4): 663-675 (2017)

31. Clifford De Raffaele, Serengul Smith, Orhan Gemikonakli:Explaining multi-threaded task scheduling using tangible user interfaces in higher educational contexts. EDUCON 2017: 1383-1390 2016

32. Quoc-Tuan Vien, Huan Xuan Nguyen, Ramona Trestian, Purav Shah, Orhan Gemikonakli:A Hybrid Double-Threshold Based Cooperative Spectrum Sensing over Fading Channels. IEEE Trans. Wireless Communications 15(3): 1821-1834 (2016)

33. Clifford De Raffaele, Serengul Smith, Orhan Gemikonakli:The aptness of Tangible User Interfaces for explaining abstract computer network principles. FIE 2016: 1-8

34. Ahmed Al-Jawad, Purav Shah, Orhan Gemikonakli, Ramona Trestian:Compression-based technique for SDN using sparse-representation dictionary. NOMS 2016: 754-758

35. Vishnu Vardhan Paranthaman, Arindam Ghosh, Glenford Mapp, Victor Iniovosa, Purav Shah, Huan Xuan Nguyen, Orhan Gemikonakli, Shahedur Rahman: Building a Prototype VANET Testbed to Explore Communication Dynamics in Highly Mobile Environments. TRIDENTCOM 2016: 81-90 2015

36. Arindam Ghosh, Vishnu Vardhan Paranthaman, Glenford E. Mapp, Orhan Gemikonakli, Jonathan Loo:Enabling seamless V2I communications: toward developing cooperative automotive applications in VANET systems. IEEE Communications Magazine 53(12): 80-86 (2015)

37. Esmat Mirzamany, Aboubaker Lasebae, Orhan Gemikonakli:Comparison between resource reservation protocol and next steps in signalling in mobile IP networks. IET Networks 4(2): 83-92 (2015)

38. Yonal Kirsal, Enver Ever, Altan Koçyigit, Orhan Gemikonakli, Glenford E. Mapp:Modelling and analysis of vertical handover in highly mobile environments. The Journal of Supercomputing 71(12): 4352-4380 (2015)

39. Krishna Doddapaneni, Purav Shah, Enver Ever, Ali Tasiran, Fredrick A. Omondi, Leonardo Mostarda, Orhan Gemikonakli:Packet Arrival Analysis in Wireless Sensor Networks. AINA Workshops 2015: 164-169

40. Fredrick A. Omondi, Purav Shah, Orhan Gemikonakli, Enver Ever:A Framework for Energy Based Performability Models for Wireless Sensor Networks. AINA Workshops 2015: 175-180

41. Ramona Trestian, Quoc-Tuan Vien, Huan Xuan Nguyen, Orhan Gemikonakli:On the impact of video content type on the mobile video quality assessment and energy consumption. BMSB 2015: 1-6

42. Ramona Trestian, Quoc-Tuan Vien, Huan Xuan Nguyen, Orhan Gemikonakli:ECO-M: Energy-efficient Cluster-Oriented Multimedia delivery in a LTE D2D environment. ICC 2015: 55-61

43. Quoc-Tuan Vien, Tayo Akinbote, Huan Xuan Nguyen, Ramona Trestian, Orhan Gemikonakli:On the coverage and power allocation for downlink in heterogeneous wireless cellular networks. ICC 2015: 4641-4646

44. Fredrick A. Omondi, Purav Shah, Orhan Gemikonakli, Enver Ever:An analytical model for bounded WSNs with unreliable cluster heads and links. LCN 2015: 201-204

45. Ahmed Al-Jawad, Ramona Trestian, Purav Shah, Orhan Gemikonakli:BaProbSDN: A probabilistic-based QoS routing mechanism for Software Defined Networks. NetSoft 2015: 1-5

46. Yonal Kirsal, Yoney Kirsal-Ever, Leonardo Mostarda, Orhan Gemikonakli:Analytical Modelling and Performability Analysis for Cloud Computing Using Queuing System. UCC 2015: 643-647 2014

47. Esmat Mirzamany, Aboubaker Lasebae, Orhan Gemikonakli:An efficient traffic engineering based on multi-topology routing for future Internet. Computer Networks 70: 170-178 (2014)

48. Arindam Ghosh, Vishnu Vardhan Paranthaman, Glenford E. Mapp, Orhan Gemikonakli:Exploring efficient seamless handover in VANET systems using network dwell time. EURASIP J. Wireless Comm. and Networking 2014: 227 (2014)

49. Quoc-Tuan Vien, Brian G. Stewart, Huan Xuan Nguyen, Orhan Gemikonakli:Distributed space-time-frequency block code for cognitive wireless relay networks. IET Communications 8(5): 754-766 (2014)

50. Yoney Kirsal-Ever, Agozie Eneh, Orhan Gemikonakli, Leonardo Mostarda:Analysing the Combined Kerberos Timed Authentication Protocol and Frequent Key Renewal Using CSP and Rank Functions. TIIS 8(12): 4604-4623 (2014)

51. Yonal Kirsal, Enver Ever, Altan Koçyigit, Orhan Gemikonakli, Glenford E. Mapp:A Generic Analytical Modelling Approach for Performance Evaluation of the Handover Schemes in Heterogeneous Environments. Wireless Personal Communications 79(2): 1247-1276 (2014)

52. Mahdi Aiash, Glenford E. Mapp, Orhan Gemikonakli:Secure Live Virtual Machines Migration: Issues and Solutions. AINA Workshops 2014: 160-165

53. Krishna Doddapaneni, Fredrick A. Omondi, Enver Ever, Purav Shah, Orhan Gemikonakli, Roberto Gagliardi:Deployment Challenges and Developments in Wireless Sensor Networks Clustering. AINA Workshops 2014: 227-232

54. Clifford Sule, Purav Shah, Krishna Doddapaneni, Orhan Gemikonakli, Enver Ever:On Demand Multicast Routing in Wireless Sensor Networks. AINA Workshops 2014: 233-238

55. Maher Ali Al Rantisi, Glenford E. Mapp, Orhan Gemikonakli:Simulation of an event-driven Wireless Sensor Network protocol for environmental monitoring. FGCT 2014: 33-38

56. Fredrick A. Omondi, Enver Ever, Purav Shah, Orhan Gemikonakli, Leonardo Mostarda:Performability Modelling and Analysis of Clustered Wireless Sensor Networks with Limited Storage Capacities. IDCS 2014: 369-382

57. Arindam Ghosh, Vishnu Vardhan Paranthaman, Glenford E. Mapp, Orhan Gemikonakli:Providing ubiquitous communication using handover techniques in VANET systems. Med-Hoc-Net 2014: 195-202

58. Quoc-Tuan Vien, Huan Xuan Nguyen, Ramona Trestian, Purav Shah, Orhan Gemikonakli:Performance analysis of cooperative spectrum sensing for cognitive wireless radio networks over Nakagami-m fading channels. PIMRC 2014: 738-742

59. Quoc-Tuan Vien, Huan Xuan Nguyen, Orhan Gemikonakli, Balbir Barn: An Efficient Cooperative Spectrum Sensing under Bandwidth Constraint with User Selection. VTC Fall 2014: 1-5Quoc-Tuan Vien, Brian G. Stewart, Huan X. Nguyen and **Orhan Gemikonakli**, (2013), "Distributed Space-Time-Frequency Block Code for Cognitive Wireless Relay Networks", IEEE Global Communications (GlobeCom'13), December 2013

60. Ghosh, A.; Vardhan, V. ; Mapp, G. ; **Gemikonakli, O.** ; Loo, J., (2013), "Providing ubiquitous communication using road-side units in VANET systems: Unveiling the challenges", ITS Telecommunications (ITST), October 2013, 13th International Conference on Digital Object Identifier: 10.1109/ITST.2013.6685524 Publication Year: 2013 , Page(s): 74 - 79

61. Esmat Mirzamany, Aboubaker Lasebae, and **Orhan Gemikonakli**, (2013), "NSIS Mobility Support for Mobile Networks", Personal Indoor and Mobile Radio Communications (PIMRC), 2013 IEEE 24th International Symposium on. Digital Object Identifier: 10.1109/PIMRC.2013.6666727, Publication Year: 2013 , Page(s): 3354 - 3359

62. F. A. Omondi, E. Ever, P. Shah, and **O. Gemikonakli**, (2013), "Modelling Wireless Sensor Networks for Performability Evaluation", the 12th International Conference on Ad Hoc Networks and Wireless, (ADHOC-NOW 2013), July 8-10, 2013, Wroclaw, Poland

63. Esmat Mirzamany, Aboubaker Lasebae, and **Orhan Gemikonakli**, (2013), "An Efficient Resource Reservation For Domain Based Mobile IP Networks: Analytical Approach", 2013 IEEE 77th Vehicular Technology Conference: IEEE VTC'2013-Spring, June 2013, Dresden, Germany

64. Kirsal, Y., Eneh, A., **Gemikonakli, O.**, Mostarda, L., (2013), "Modelling Attacker with Deciding Security Properties by Induction and Deduction", The 27th IEEE International Conference on Advanced Information Networking and Applications (AINA-2013), Barcelona, Spain, March 2013

65. Kirsal, Y., Ever, E., Mapp, G., **Gemikonakli, O.**, (2013), "Enhancing the Modelling of Vertical Handover in Integrated Cellular/WLAN Environments", The 27th IEEE International Conference on Advanced Information Networking and Applications (AINA-2013), Barcelona, Spain, March 2013

66. Antinisca Di Marco, Francesko Gallo, **Gemikonakli, O.**, Mostarda, L., and Franco Raimond, (2013), "Implementing Adaptation and Reconfiguration Strategies in Heterogeneous WSN", The 27th IEEE International Conference on Advanced Information Networking and Applications (AINA-2013), Barcelona, Spain, March 2013

67. Gemikonakli, E., Mapp, G., **Gemikonakli, O.**, and Ever, E., (2013) "Exploring Service and Buffer Management Issues to Provide Integrated Voice and Data Services in Single and Multi-Channel Wireless Networks", The 27th IEEE International Conference on Advanced Information Networking and Applications (AINA-2013), Barcelona, Spain, March 2013

68. Mirzamany, Esmat and Lasebae, Aboubaker and Gemikonakli, Orhan (2012) Using aggregated RSVP in nested HMIPv6. In: The 8th International Wireless Communications and Mobile Computing Conference (IWCMC), August 2012, Limassol, Cyprus.

69. M. A. Azam, J. Loo, U. Naeem, S. K. A. Khan, A. Lasebae, **O. Gemikonakli**, "A Framework to Recognise Daily Life Activities with Wireless Proximity and Object Usage Data", IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC'12), September 2012, Sydney, Australia

70. Doddapaneni, K., Ever, E., **Gemikonakli, O.**, Malavolta, I., Mostarda, L., Muccini, H., (2012), "Path Loss Effect on Energy Consumption in a WSN", Computer Modelling and Simulation (UKSim), Cambridge, UK, 2012

71. K. Doddapaneni, E.Ever, **O.Gemikonakli**, L. Mostarda and A. Navarra, "Effects of IDSs on the WSNs Lifetime: Evidence for the need of new approaches", Third International Symposium on Mobile and Wireless Network Security (MWNS-12), In conjunction with 11th IEEE International

Conference on Trust, Security and Privacy in Computing and Communications (IEEE TrustCom-12). Liverpool, UK, 25-27 June, 2012.

72. K. Doddapaneni, E. Ever, **O. Gemikonakli**, I. Malavolta, L. Mostarda, H. Muccini (2012), "A Model-Driven Engineering Framework for Architecting and Analysing Wireless Sensor Networks", In ACM/IEEE proceedings of Third International Workshop on Software Engineering for Sensor Network Applications SESENA 2012 (conjunction with ACM/IEEE Intl. Conference on Software Engineering, ICSE) June 2-9, 2012, Zurich, Switzerland.

73. Y. Kirsal, **O. Gemikonakli**, E. Ever, and G. Mapp, (2012), "Performance Analysis of Handovers to Provide a Framework for Vertical Handover Policy Management in Heterogeneous Environments", in IEEE Proceedings of 45thAnnual Simulation Symposium, (ANSS'12), March 26-20 2012, Florida.

74. Kirsal, Y., Ever, E., **Gemikonakli, O.**, Mapp, G., (2011), "Modelling and Performability Analysis of WLANs as a Queuing Model with Channel/Access Point Failures and Reconfiguration", European Modelling Symposium (EMS) 2011, Madrid.

75. Kirsal, Y., Ever, E., **Gemikonakli, O.**, Mapp, G., (2011), "Critical Review of Analytical Modelling Approaches for Performability Evaluation of the Handover Phenomena in Mobile Communication Systems", IEEE CIT (DSOC) 2011, Paphos, Cyprus.

76. Gemikonakli, E., Mapp, G., **Gemikonakli, O.**, and Ever, E., (2011), "Traffic Modelling in WLANs and Cellular Networks", IEEE CCSIE 2011, London, UK.

77. Rantisi, M., Maqousi, A., Mapp, G., and **Gemikonakli, O.**, (2011), "The Development of a Dynamic Event-Based Routing in Wireless Sensor Networks for Monitoring Soil Moisture in the Middle east", IEEE CCSIE 2011, London, UK.

78. Gemikonakli, E., **Gemikonakli, O.**, Ever, E., and Mapp, G., (2011), "Impacts of Buffering of Voice Calls in Integrated Voice and Data Services", In: Al-Dabass, David and Orsoni, Alessandra and Cant, Richard and Abraham, Ajith, (eds.) Computer Modelling and Simulation (UKSim), 2011 UkSim 13th International Conference IEEE, pp. 507-512. ISBN 9781612847054

79. Kirsal, Y., Gemikonakli, E., Ever, E., Mapp, G., and **Gemikonakli, O.**, (2010), "An Analytical Approach for Performance Analysis of Handoffs in the Next Generation Integrated Cellular Networks and WLANs", PMECT 2010, Zurich, Switzerland.

80. Taherkhani, S., Ever, E., and **Gemikonakli, O.**, (2010), "Implementation of Non-Pipelined and Pipelined Data Encryption Standard (DES) Using Xilinx Virtex-6 FPGA Technology", IEEE CIT (DSOC) 2010, Bradford, UK

81. Mapp, G., Thakker, D., **Gemikonakli, O.**, (2010), "Exploring a New Markov Chain Model for Multiqueue Systems" , UKSim-AMSS 2010, 12th International Conference on Computer Modelling and Simulation, Cambridge, UK, March 2010

82. **Gemikonakli, O.**, Ever, E., and Gemikonakli, E., (2010), "Performance Modelling of Virtualised Servers", UKSim-AMSS 2010, 12th International Conference on Computer Modelling and Simulation, Cambridge, UK, March 2010

83. Ever, E., Kirsal, Y., and **Gemikonakli, O.**, "Performability Modelling of a Kerberos Server with Frequent Key Renewal under Pseudo-Secure Conditions for Increased Security", CITT 2009, Dubai, December 2009, pp. 91-96

84. Ever, E., Kirsal, Y., and **Gemikonakli, O.**, "Performability Modelling of Handoff in Wireless Cellular Networks and the Exact Solution of System Models with Service Rates Dependent on Numbers of Originating and Handoff Calls", International Conference on Computational Intelligence, Modelling and Simulation (CSSim 2009), 7-9 September 2009, pp. 282-287.

85. Mapp, G., Thakker, D., **Gemikonakli, O.**, (2009), "Exploring Gate-Limited Analytical Models for High Performance Network Storage Servers",The 3rd IEEE International Workshop on

Performance Modeling and Evaluation in Computer and Telecommunication Networks (PMECT2009), San Francisco, August 2009, pp. 1-5

86. Thakker, D., Mapp, G., **Gemikonakli, O.**, (2009) "Modelling Mixed Access Patterns in Network-based Systems", UKSim 2009, 10th International Conference on Computer Modelling and Simulation, Cambridge, UK pp. 514-519

87. Kirsal, Y., **Gemikonakli, O.**, (2009), "Performability Modelling of Handoff in Wireless Cellular Networks with Channel Failures and Recovery", UKSim 2009, 10th International Conference on Computer Modelling and Simulation, Cambridge, UK, pp. 544-547

88. Thakker, D., Mapp, G., **Gemikonakli, O.**, (2008), "Balancing Streaming and Demand Accesses in a Network Based Storage Environment", International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering (CIS^{2}E 08), December 2008.

89. **Gemikonakli, O.**, Hadi Sanei, H., Enver Ever, E., Koçyiğit, A., (2008), "An Analytical Approach for Optimising the Number of Repairmen for Large Scale, Homogeneous, Multi-Server Systems", EMSS 2008, Italy

90. Koçyiğit, A., Gemikonakli, O., and Ever, E., (2008), "Analytical Modelling of Large Scale Multi-server Systems with Deferred Repairs: A Reward Rate Approach", EMS 2008, April 2008, Liverpool, UK

91. Kirsal, Y., and **Gemikonakli, O.**, (2008), "Improving Kerberos Security through the Combined Use of the Timed Authentication Protocol and Frequent Key Renewal", IEEE CIS 2008, London, UK, pp.153-158

92. Koçyiğit, A., Gemikonakli, O., and Ever, E., (2008), "Cost Reduction in High Power Computing Using a Deferred Repair Strategy: A Simulation Study", UKSim/EuroSim 10th International Conference on Computer Modelling and Simulation, Cambridge, UK, pp. 550-554

93. Kirsal, Y., and **Gemikonakli, O.** "Further Improvements to the Kerberos Timed Authentication Protocol", *CISSE 2007*, 2007, pp.550-554

94. Chakka, R., Ever, E., **Gemikonakli, O.**, (2007), "Joint-State Modelling for Open Queuing Networks with Breakdowns, Repairs and Finite Buffers" IEEE MASCOTs, Istanbul, October 2007

95. **Gemikonakli, O.**, Sanei, H., and Ever, E., "Approximate Solution for the Performability of Markovian Queuing Networks with a Large Number of Servers", The Fifth Workshop on Signal Processing for Wireless Communication (SPWC), London, June 2007.

96. Kirsal Yoney, and **Gemikonakli, O.**, "Frequent Key Renewal under Pseudo-Secure Conditions for Increased Security in Kerberos Authentication and Its Impact on System Performability", the International Conference on Global e-Security (ICGeS) 2007, April 2007.

97. **Gemikonakli, O.**, Mapp, G., Ever, E., and Thakker, D. (2007), "Modelling Network Memory Servers with Parallel Processors, Break-Downs and Repairs", IEEE Proceedings of the 40th Annual Simulation Symposium, Norfolk, VA, March 2007, pp. 11-20

98. Kirsal Y., and **Gemikonakli, O.**, (2006) "An Authentication Protocol to Address the Problem of the Trusted 3rd Party Authentication Protocols", International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering (*CISSE*) 2006, November 2006, pp. 523-526

99. Ever, E., **Gemikonakli, O.**, Chakka, R., (2006), "*Performability Analysis of Highly Available Clusters with Break-downs and Deferred Repairs*", In Proceedings of Fourth International Working Conference on Performance Modelling and Evaluation of Heterogeneous Networks, (HET-NETs'06), Ilkley, UK, September 2006, pp. P05/1-P05/9.

100. Ever, E. and **Gemikonakli, O.**, (2006), "*Mathematical Modelling for Performability Analysis of Homogeneous Multi-server Systems with Deferred Repairs*", European Modelling Symposium 2006, London, September 2006, ISBN = 0-9516509-3-9/978-0-9516509-3-6, pp. 84-88.

101. Chakka, R., Ever, E., **Gemikonakli, O.**, (2006) *"Modelling Open Networks with Breakdowns, Repairs and Finite Buffers, Using an IPP Departure Process Model"*, Proceedings of the 10th WSEAS Int. Conf. on Computers, Athens, Greece, July 2006, pp. 33-38.

102. Eneh, A., and **Gemikonakli, O.**, *"The Pre-emptive Protocol Design and Analysis: Hope for Secure Communication in Societies with Economic Deprivation"*, The International Journal of Technology, Knowledge and Society: , **Vol 1**, Issue 5, 2005/2006, ISSN: 1832-3669, pp.35-42.

103. **Gemikonakli, O.**, *"Analysis of a phase-shift technique for inter-modulation cancellation proposed for 2-Carrier QPSK Systems"*, (2006), ICTTA, Damascus, April 2006.

104. Eneh, H.E., **Gemikonakli, O.**, and Comley, R., (2006), *"Secure Electronic Commerce Authentication Protocols In Economically Deprived Communities"*, The Fifth Security Conference 2006, Las Vegas, Nevada, April 2006, ISBN: 0-9772107-2-3

105. Eneh, H.E., **Gemikonakli, O.**, and Comley, R., (2006), *"Towards the Modelling of Authentication Protocol Attacker"*, The Fifth Security Conference 2006, Las Vegas, Nevada, April 2006, ISBN: 0-9772107-2-3

106. Ever, E., **Gemikonakli, O.**, Chakka, R., (2006), *"A Mathematical Model For Highly Available Clusters With One Head And Several Identical Computing Nodes"*. In Proceedings of the 9th International Conference on Computer Modelling and Simulation (UKSim 2006), pp.32-37.

107. Ever, E., **Gemikonakli, O.**, Chakka, R., (2006), *"A Mathematical Model for Performability of Beowulf Clusters"*, IEEE Proceedings of the 39th Annual Symposium on Network Simulation, pp.118-126

108. **Gemikonakli, O.**, Mapp, G., Thakker, D., Ever, E., *"Modelling and Performability Analysis of Network Memory Servers"*, (2006), IEEE Proceedings of the *39th Annual Symposium on Network Simulation*, pp.127-134.

109. Ever, E., **Gemikonakli, O.**, Chakka, R., and Do., T. V., (2005), *"A Mathematical Model for Performability Evaluation of Heterogeneous Multiprocessor Systems with Reconfiguration and Rebooting delays"*, In *Proceedings of ESM 2005*, Porto, Portugal, October 2005.

110. **Gemikonakli, O.**, Van Do, T., Chakka, R., and Ever, E., (2005), *"Numerical Solution to the Performability of a Multiprocessor System with Reconfiguration and Rebooting Delays"*, European Simulation and Modelling Multiconference, June 2005, pp. 766-770.

111. Eneh, H.A., and **Gemikonakli, O.** (2005), *"An Overview of Analysis of Security Standards for Authentication in Distributed Systems"*, Proceedings of the 3rd International Workshop on Security in Information Systems (WOSIS-2005), May 2005, Miami, USA.

112. Eneh, H.A., and **Gemikonakli, O.** (2005), *"Analysis of security protocols for authentication in distributed systems"*, Proceedings of Conference on Applied Computing IADIS'05, Volume 2, Algarve, Portugal, pp 301-305.

113. Eneh, H.A., and **Gemikonakli, O.** (2005), *"The Analysis of Security Standards for Authentication in Distributed Systems"*, Abstracts, Technological Conference, Berkeley California, February 2005.

114. Van Do, T., Chakka, R., **Gemikonakli, O.**, and Papp, D. (2004), *"Level dependent band QBD processes: Steady state solution and applications"*, Second International Working Conference on Performance Modelling and Evaluation of Heterogeneous Networks (HET-NETs 2004), Ilkley, West Yorkshire, U.K., ISBN: 0-9540151-6-9, pp.WP8/1-WP8/6.

115. Chakka, R., Van Do, T., Le Xhat, T., and **Gemikonakli, O.** (2004) *"A New Performance Model for Web Servers"*, 5th EUROSIM Congress on Modelling and Simulation, (EURISIM '04), ESIEE Paris, Sept. 06-10. 2004. September 2004, Paris, France

116. Eneh, H.A., Singh, H., and **O. Gemikonakli** (2004) *"Three-way authentication framework for IEEE 802.11b networks"*, INC'04, July 2004, Plymouth, UK.

117. **Gemikonakli, O.** (2003) "A phase-shift technique for intermodulation cancellation", IEE Ninth International Conference on HF Radio Systems and Techniques, Bath, UK

118. Chakka, R., **Gemikonakli, O.**, and Basappa P. (2002), "Modelling multiserver systems with time or operation dependent breakdowns, alternate repair strategies, reconfiguration and rebooting delays", SPECTS 2002, San Diego, CA, USA

119. Chakka, R., **Gemikonakli, O.** and Harrison P., (2000), *Approaches to Modelling Open Networks with Bursty Arrivals*, Eighth IFIP Workshop on Performance Modelling and Evaluation of ATM & IP Networks (IFIP ATM & IP 2000).

120. Okyere-Boateng, J., and **Gemikonakli, O.**, (1998), "Telematics in Education", International Workshop on Technology Transfer and Telecommunications Programmes, TEMPUS JEP-12044, University of Miskolc, Hungary

121. Grega, J., **Gemikonakli, O**, (1994), "Reference signal recovery and correction using digital techniques", ASME Second Biennial European Joint Conference on Engineering Systems Design and Analysis, Vol 8, edited by Eslami, M.R; Sabir, A; Martelli, F., UK, pp. 789-794. ISBN 0-7918-1280-4.

122. **Gemikonakli, O** (1994), "Linearisation techniques for non-linear channels", Miskolc-Egyetemvaros, microCAD'94 International Computer Science Conference, Hungary, March pages 56-62.

123. Brewster, B.D; Robertson, I.D., and **Gemikonakli, O.**, (1993), "An adaptive quadrature phase QPSK modulator with C-band IF for VSAT system applications", IEE Colloquium on "Recent Advances in microwave sub-systems for space and satellite applications". Col Digest No 1993/062, pages 8/1-8/5.

124. **Gemikonakli, O.** & Aghvami, A.H. (1992), "Transmission of SDH signals through satellite channels using 8-ary PSK technique", IEE Colloquium on Recent Advances in Satellite Communications, Digest No 1992/019, pages 9/1-9/4.

125. **Gemikonakli, O.**, Aghvami, A.H, and Kato, S., (1991) "Transmission of SDH signals through future satellite channels using 64-ary QAM modulation technique". Proc 2nd European Conf on Satellite Communications, ECSC-2, Leige, Belgium, pages 477-480.

126. **Gemikonakli, O.**, and Aghvami, A.H. (1991), "Performance of Trellis coded 16-QAM in a two-link satellite channel". IEEE International Communications Conference (ICC'91), Denver, Conference Proceedings, pages 216-220.

127. Fines, P, **Gemikonakli, O.**, and Aghvami, A.H. (1991), "Performance of a medium-data-rate 16-Mary DE-QAM modem in a non-linear rician channel". IEE 3rd Int Conf on Telecommunications, Edinburgh, Conference Proceedings, pages 41-46.

128. **Gemikonakli, O.**, Aghvami, A.H., and Kato, S, (1990) "Transmission of SDH signals through future satellite channels using 16-ary QAM modulation technique", IEEE Global Telecommunications Conference (GLOBECOM'90), Atlanta, Conference Proceedings, pages 510-514.

129. **Gemikonakli, O.**, and Aghvami, A.H. (1990), "Comparison of 16-ary QAM and MAMSK transmissions over a two-link non-linear satellite channel", 1990 International Symposium on Information Theory and its Applications, ISITA'90, Hawaii, Conference Proceedings.

130. **Gemikonakli, O.**, and Aghvami, A.H. (1990), "Performance study of Trellis coded 16-QAM in non-linear satellite channels". IEEE International Conference on Communications (ICC'90), Atlanta, Georgia, Conference Record, Vol 4, pages 1409-1412.

131. **Gemikonakli, O.**, and Aghvami, A.H. (1990), "A new M-ary CPSK system for low-data-rate satellite services". Bilkent Int Conf on New Trends in Communication, Control and Signal Processing, BILCON'90, Ankara, Turkey, Conference Proceedings, vol 1, pages 326-331.

132.   **Gemikonakli, O.,** and Aghvami, A.H. (1989), "A semi-analytical method for evaluating the performance of digital modulations transmitted through non-linear channels", IEEE Global Telecommunications Conference (GLOBECOM'89), Dallas, Texas, Conference Record, vol 3, pages 1735-1737.

133.   **Gemikonakli, O.,** and Aghvami, A.H. (1989), "M-ary CPSK transmission through a two-link non-linear satellite channel using a RF linearizer in Gaussian noise and CCI", URSI International Symposium on Signals, Systems and Electronics (ISSSE'89), Erlangen, FR Germany, Conference Proceedings, pages 578-581.

134.   **Gemikonakli, O.,** and Aghvami, A.H. (1989), "Performance of 256-QAM modem for high capacity radio systems in presence of co-channel interference", Second European Conference on Radio Relay Systems, Padua, Italy, Conference Proceedings, pages 183-186.

Invited Talks

135.   **Gemikonakli, O.,** "Current Trends in Computer and Communications Engineering", Middle East Technical University, Cyprus, 2014

136.   **Gemikonakli, O.,** "Dumanla Haberleşmeden 5G'ye – Günümüzde Telekommunikasyonda Eğilimler", European University of Lefke, Cyprus, 2014

137.   **Gemikonakli, O.,** Keynote: "Security and performance", ICGS3, London, 2013

138.   **Gemikonakli, O.,** Keynote: "From Smoke Signal to xG and Current Trends in Communications", The 6th International Conference on Information Technology, (ICIT 2013), Amman, Jordan, May 2013

139.   **Gemikonakli, O.,** (2011), "Social Impacts of Computers", Nazim Hikmet Academy, Istanbul, Turkey, November 2011

140.   **Gemikonakli, O.,** (2011), "From Smoke Signal to Future Trends: A Travel into the World of Telecommunications", *Public Lecture* at the University of West Indies, Barbados, June 2011

141.   **Gemikonakli, O.,** (2010), IFIP-TC6 School in Networking Trends Conference, One day tutorial, "Virtualization", Ecole Superieure Privee d'Ingenierie et de Technologies (esprit), Tunisia, 2010

142.   **Gemikonakli, O.,** (2009), *"An Insight into Information, Computer, and Network Security"*, Plymouth University, January 2010

143.   **Gemikonakli, O.,** (2009), "Quality Assurance and Strategic Decision Making", Internal Quality Assurance System in Armenian Higher Education Institutions TEMPUS -TACIS JEP No. 27178-2006 "ARMQA", London, UK

144.   **Gemikonakli, O.,** (2008), "Objectives, principles and techniques of Quality Assurance and Institutional Quality Assurance: A Case Study", Internal Quality Assurance System in Armenian Higher Education Institutions TEMPUS -TACIS JEP No. 27178-2006 "ARMQA", Yerevan, Armenia

145.   **Gemikonakli, O.,** (2007), "E-Government and its Applications", the Chamber of Architects and Engineers, Nicosia, Cyprus, August 2006.

146.   **Gemikonakli, O.,** (2006), "The role of research in shaping higher education and informing teaching", International Conference on Higher Education and Development, Pakistan HEC, Islamabad, Pakistan, May 2006.

147.   **Gemikonakli, O.,** (2003), "On the British Higher Education", the Chamber of Architects and Engineers, Nicosia, Cyprus, August 2003.

Other Conference Papers:

148. Ramiah, R., Gemikonakli, E., and **Gemikonakli, O.,** "Development of a Network Configuration Management System Using Artificial Neural Networks", Kaspersky IT Security Conference for the Next Generation, London, November 2009

149. Palikhe, P., Gautam, S., and **Gemikonakli, O.,** "A Software Tool Assisting SMEs in Managing Network Security", Kaspersky IT Security Conference for the Next Generation, London, November 2009

150. Gemikonakli, E., **Gemikonakli, O.,** Bavan, S., "Intelligent Network Monitoring Using a Connectionist Inference Model", Proceedings of PGNet 2009, June 2009, Liverpool, ISBN: 978-1-902560-22-9

151. Kirsal, Y., **Gemikonakli, O.,** "Approaches to Modelling and Analysis for Performability Evaluation of Handoff Schemes in Wireless Cellular Networks", Proceedings of PGNet 2009, June 2009, Liverpool, ISBN: 978-1-902560-22-9

152. Kirsal, Y., and **Gemikonakli, O.,** (2009), "Analysing the Kerberos Timed Authentication Protocol Using CSP-Rank Functions", Kaspersky Student Conference on Computer Security Issues "the IT Security Conference for the New Generation", Moscow, April 2009

153. Cavdir, E., **Gemikonakli, O.,** and Deniz, D.Z., "*An Approach to the Performance Evaluation of Wireless Sensor Networks*", Proceedings of PGNet 2005, June 2005, Liverpool, ISBN: 1-902-56011-6., pp. 451-455.

154. Kirsal, Y., Eneh, H.A., and **Gemikonakli, O.,** "*A Solution for the Problem of Trusted Third Party for IEEE 802.11b Networks*", Proceedings of PGNet 2005, June 2005, Liverpool, ISBN: 1-902-56011-6., pp. 333-338.

155. Ever, E., **Gemikonakli, O.,** Chakka, R., "The Use of Markov Modulated Poisson Process (MMPP) in Open Queuing Systems with Breakdowns and Repairs", EPSRC PG Symposium, April 2005, pp. 48/298- 52/298

156. Okyere-Boateng, J., Gemikonakli, O., Chakka, R. (2000) "*MDX-CME: A protocol specification for collaborative multimedia environment*", PG Net 2000

Research Supervision

- Brian Brewster, Bachelor of Philosophy (BPhil)
- Director of Studies
- 1995-1997

- Josef Grega, Doctorate (Hungarian)
- Director of Studies
- 1995-1998

- John Okyere-Boateng
- Director of Studies
- 1996

- Manohar Menon
- Second Supervisor

- 2003

- Agozie Eneh
- Director of Studies
- 2003-2007

- Enver Ever
- Director of Studies
- 2004-2008

- Yoney Kirsal
- Director of Studies
- 2004-2011

- Michael Cheng
- Second Supervisor
- 2004-2008

- Dhawal Thakker
- Second Supervisor
- 2007-2010

- Maher Rantisi (Distance Learning)
- Director of Studies
- 2008

- Eser Gemikonakli
- Second Supervisor
- 2007

- Yonal Kirsal
- Director of Studies
- 2008

- Esmat Mirzamany
  Second Supervisor
  2010

- Arindam Ghosh
  Director of Studies
  2010

- Krishna Doddapaneni
  Director of Studies
  2010

- Fredrick Adero
  Director of Studies
  2012

Membership of University Committee and Task Group

- Teaching Loads Working Party
- January – June 1995

- Academic Planning Committee
- 2001-02

- Academic Planning, Quality and Learning Enhancement Committee (APQLE).
- November 2006 to date

- Academic Standards and Quality Committee (ASQC)
- 2008 to 2010

- Student Buddy Scheme Steering Committee
  2011

- Teaching and Learning Committee,
  January 2011 to date

Administrative/Managerial Roles

Aug 2007   Head of Department, and Member of School Executive
to date

Jan-July 2007	Academic Group Chair (Acting)
2005-2008	Link Tutor, DNV-CIBIT, Bilthoven, The Netherlands
2001-2007	Postgraduate Curriculum Leader (Computer Communications)
1994-98	Program Leader, MSc Telematics
1998-2004	Program Leader, MSc Computer Networks
1992-97	Undergraduate Project Coordinator, School of Electronic Engineering

Relevant External Activities

- IEEE UK&RI Section
- Communications Chapter Committee
- 1990-95
- Student Officer

- CIBIT, Utrecht
- Development and Validation of an MSc Programme in Telematics
- 1993

- ASME Second Biennial European Joint Conference on Engineering Systems Design and Applications
  Session Developer & Session Chair
  1993-94

- TEMPUS Projects, University of Craiova, Romania
- 1994

- TEMPUS Projects, University of Miskolc, Hungary
  1994-2000

- Editorial Responsibilities:

- Associate Editor: The International Journal of Technology Knowledge & Society, 2005

- Member of the Editorial Board; International Journal of Electronic Security and Digital Forensics, Inderscience Publishers, 2008 to date

- Member of International Advisory Board; International Journal of Scholarly Papers "Transformations in Business and Economics", 2010

- Programme Committee/Advisory Panel Memberships (Sample of):
  - Annual Symposium on Network Simulation, April 2006-2008

  - International Conference on Security, Sustainability, and Safety, 2008 to date
  - The International conference on the Current Trends in Information Technology, Dubai, 2009
  - IEEE International Conference on Computer and Information Technology, 2010
  - Conference on IT Security for the Next Generation, Kaspersky Laboratories, 2009 to date
  - 25th IEEE International Conference on Advanced Information Networking and Applications ((Distributed and Parallel Systems Track), 2011
  - The International Conference on Computational Intelligence and Communication Networks (CICN2010)
  - International Conference on Cyber Terrorism: a threat to inter-nation, 2011.
  - DCNET 2011 – 2012
- Chair
  - IEEE International Conference on Cybernetics and Intelligent Systems, 2008 (Local Chair)
  - The IEEE Conference on Communication, Science & Information Engineering (CCSIE) 2011 (Operations Chair)
  - The IEEE Conference on Communication, Science & Information Engineering (CCSIE) 2011 (Chair)

- Session Chair (sample of):
  - Conference on Applied Computing (IADIS'05), Algarve, Portugal, February 2005
  - European Simulation and Modelling Multiconference, Riga, June 2005
  - Annual Symposium on Network Simulation, 2006-2008
  - ICTTA, Damascus, Syria, April 2006
  - 40th Annual Symposium on Network Simulation, Huntsville, AL, USA, April 2007
  - IEEE International Conference on Cybernetics and Intelligent Systems, 2008

- Refereeing papers (sample of):
    - The International Journal of Technology Knowledge & Society, 2005
    - IEEE Globecom, 2006
    - IEEE ICC, 2006
    - Annual Symposium on Network Simulation, 2006-2008
    - Simulation Modelling Practice and Theory (Elsevier Science), 2006
    - Journal of Mathematical Modelling and Algorithms (JMMA), 2006
    - The International Journal of Simulation Modelling Practice and Theory (SIMPAT), 2008
    - The International conference on the Current Trends in Information Technology, 2009
    - The International Journal of Computers and Applications
    - Elsevier, Computers & Operations Research

Media Experience

- Assistant Editor in a daily newspaper, 1984

External Examining Experience

- DNV CIBIT, Utrecht, The Netherlands – Role included attendance to assessment boards, examining MSc Projects

- Programme Validation/Review

    Various panels (including validations for Foundation Degree - Southgate College, HNC/HND - Swansea Institute of Technology)

- Latest one: May 2011 – University of east London; Review of Computing Science UG and PG Curriculum

- Current appointment as external examiner:

    - Subject External Examiner for modules associated with B6CNET (Networks) and CNETPG, University of Plymouth

    - Subject and Programme External Examiner, FdSc Network Technology, University Campus Suffolk

Research Grants and Awards

- Travel Awards
- Fellowship of Engineering, Royal Society
- 4 times between 1989-91
- £350 - £550

- IEEE Best Student Paper ($800 travel grant), 1989

- Small Research Grant
- School of Electronic Engineering, 1992
- £2000

Overseas Links

- University of Craiova, Tempus Project, 1994

- Miskolc University,

  Research Supervision, supervising and assessing UG projects in Electrical and Electronic Engineering, Tempus Projects (1994-2000)

- British Council's Education Fair

  Ankara, Izmir and Istanbul, Turkey, Sofia (2004)

  1995 – 1999 and 2003-2004

- CIBIT, Utrecht, The Netherlands

  PG Project assessment for MSc programmes, 1994 – 1999; Link Tutor 2006-2008

- British Council's Education Fair

  India

  February, 2004

- Student interviews and Recruitment, India, February and December 2004, May-June 2009, May-June 2010

- Middle East Technical University, Turkey, Staff Mobility, Socrates, 2007 & 2008

- Uludag University, Turkey, Staff Mobility, Socrates, 2009

- University of Vilnius, Kaunas, Lithuania, Staff Mobility, Socrates, 2010

Any Other Relevant Information

OTHER COURSES/CONFERENCES ATTENDED

1995	Brunel University
	Borland C++, 4.5

1999 -2000	Cisco Certified Network Associate (CCNA)
2001	Cisco Certified Academic Instructor (CCAI)
2002-2003	Cisco Certified Network Professional (CCNP)
	Completed 2 out of 4 semesters.

Previous training at Middlesex University:

Pegasus Mail

Appraiser Course

WebCT

Teaching and assessing more students

Short Course on Conducting Interviews, 2005

Financial Management – February 2007

OASISPlus, 2007

Leadership Development, 2007-08

OpNet Modeller, 2008

Podcasting, 2009

Essential Conversation, 2010

Time management, 2011

Leading in a Changing Workplace, 2011

Senior Leadership Development Programme, 2011