

Personal Details

Name	Professor Madjid Merabti, BSc, MA, PhD, CEng, FIET
Nationality	British
Current Post	Dean of the College of Sciences and Professor of Networked Systems and Security.
Research Interests	Distributed Multimedia Systems, Network Security, Networking, Wireless & Mobile Computing, Networked Appliances, Forensic Computing, Games Technology, Creative Technology.

Education and Qualifications

Lancaster University, UK	PhD in Computer Science (Networking)
Lancaster University, UK	M.A. in Computer Studies
Liverpool Polytechnic, UK	BSc in Maths., Statistics., and Computing

Leadership Training

Senior Managers Leadership Training by Senn-Delaney, USA, 2004.

Previous Employment Record

02 – 14 Liverpool John Moores University	Dean of a multidisciplinary School of Computing & Mathematical Sciences. Professor of Networked Systems and Security. The School consists of 4 departments: Networked Systems and Security; Information, Media, and Computer Entertainment; Software Systems; and Mathematics and Statistics, 100 staff, 1200 undergraduates, 120 MSc, and 65 PhD students. Director, PROTECT: Research Centre for Critical Infrastructure Protection. A centre addressing research in Cyber Security threats and protection against them. www.protect-ci.org
00 – 02 Liverpool John Moores University	Professor of Networked Systems, Deputy Director of School, and Director of Research. In addition to my management responsibilities, I was in charge of future strategy and new developments.
98 – 00 Liverpool John Moores University	Reader, Deputy Director of School, and Director of Research
97 – 98 Liverpool John Moores University	Reader in Distributed Systems, Head of Department of Computer Systems (18 academics). Under my leadership the

	department produced about 70% of all new developments in courses, and research.
96 – 97 Liverpool John Moores University	Principal Lecturer, Head of Department of Computer Systems (18 academics).
90 – 95 Liverpool John Moores University	Senior Lecturer in Computing. Taught various topics. I started research in Distributed Multimedia Systems (in 1992).
87 – 90 Lancaster University	Senior Research Associate in Computing. Developed novel industrial networks Research.
85 – 87 University of London	Research Associate in Computing University College London (UCL) Developments of the first UK 2 Mbits/s Communications Network. An experimental Government funded Internet including BT research and GEC-Marconi Research Labs.

University Wide Management Responsibilities and Experience

- 2002 -- 14 Member of the University Senior Management Group, Chaired by Vice-Chancellor and Chief Executive. The management group is made up of all senior academics and senior service managers and oversees the delivery of University strategy and goals.
- 2003 -- 05 Member of the University Quality Committee. This is the highest University committee responsible for the quality processes in all academic matters. It reports directly to the academic board and vice-Chancellor. The quality committee is responsible for accreditation, validation, course proposals, student surveys, teaching and other standards in delivery, interaction with government Quality Agency (QAA), and other outside stakeholders.
- 2002 -- 2004 Member of the Academic Board. The highest academic board, chaired by the Vice-Chancellor, oversees and ratifies all academic decisions on all awards from undergraduate to PhD as well academic policy. Academic are voted by the academics of the University onto this board for a fixed period.
- 1997 - - 02 Member of the University's Research Degrees Committee. This committee, made of a small number of experienced scholars, oversees the management, quality control, and award of PhD degrees University wide. All appointments of research supervisors, PhD external and internal examination, student appeals, and accreditation are part of its remit.
- 1996 - - 02 Member of the University's Committee for Research & Enterprise Funding & Strategy. This university wide committee manages strategy and operation of research and enterprise initiatives.
- 1996 ; 2000 UK Research Assessment Exercise UOA 25/23 (Computer Science)
2007; Coordinator - responsible for the submission and liaison with the government body overseeing the evaluation process and eventual ranking.

Advisory/Consultancy Activities at International & National Levels

- UK *National Crime Agency (NCA)*, UK Home Office – Academic Advice for creation of UK First Cyber Crime Unit, 12 April 2012, November 2012.
- Canada National Research Council – research grants review, Oct 2012 - now
- UK Engineering & Physical Research council/Foreign Office -Workshop on the creation of a UK Research Institute in the Science of Cyber Security – one of 20 selected experts, December 2011.
- Switzerland Swiss National Science Foundation (SNSF) project review, Dec 2011 – Now.
- Algeria Higher Education Ministry – Review of Higher Education Reform, May 2011.
- France Research Council Research (STW) funding project review, Oct 2010 – Now.
- Netherlands Research Council Research (STW) funding project review, Oct 2010 – Now.
- UK FORSIGS LTD – Board Member of start company for the provision of Forensic Computing Software Tools, 2010 – Now.
- UK *UK - Board Member* – Appointment to the Board of MERIT, Information and Communication Technology Group, June 2007 –
- Qatar State *Qatar State* – Research Advisor/Reviewer for Qatar National Research Foundation 2007 – Now.
I have and continue to advise on the funding of research proposals from Qatar and International Consortia by the Qatar Research Foundation.
- UK Engineering & Physical Research Council (*EPSRC*) - Funding Panel Member for Communications Research (~once a year), 2002 – Now.
- UK Engineering & Physical Research Council (*EPSRC*) – Expert Reviewer of Research grant applications (an average of 8 a year), 2000 – Now.
- Algeria *Algeria, Algerian Higher Education Ministry* – Review of Higher Education Reform, Introduction of Bologna Agreement and the UK experience, May 20 – 25, 2006. This work was commissioned by the Algerian Higher Education Minister and involved a three workshop with the Minister and all Algerian Universities Rectors (Presidents).
- Taiwan *Taiwan* – consultant to Chung-Hwa Telecom, July 5 -19, 2006 (Chung-Hwa is Taiwan National Telecoms Company) on Network Security Infrastructures.
- Saudi Arabia *Saudi Arabia* – King Fahd University of Petroleum and Minerals, Research Funding Proposals Review, 2006 - 2010.
- Taiwan consultant to Chung-Hwa Telecoms. Company on New Technology, (Chung-Hwa is Taiwan National Telecoms Company). August, 15 – 30, 2005
- Germany Wismar University, Department of Electronic Engineering, Manufacture and Control. Development of curriculum for Multimedia courses. July 5 – 15, 2005.
- Taiwan Consultant to Chung-Hwa Telecoms. Company on New Technology, (Chung-Hwa is

- Taiwan National Telecoms Company). January, 12 – 30, 2004
- Taiwan Consultant to Chung-Hwa Telecom. Company on New Technology, (Chung-Hwa is Taiwan National Telecoms Company). January, 14 – 21, 2003
- South-Africa University Policy and IT Research Strategy - Cape Town Technikon, South Africa (July/August 2000). I spent two weeks working with the University Vice-Chancellor to devise some recommendations for the University on the above areas.
- Mauritius Mauritius University, – Computing subject advisor, June 4-15 2001
- UK ICT Advisory Panel, North-West Government Office, 2000 - - 2006. The panel advised on investment strategy for IT in the North-West of England. The funds equate to hundreds of millions pounds.
- UK UK EPSRC – Coordinator for UK Government (EPSRC) Supported Network of Excellence on the Convergence of Telecommunications, Networking and Broadcasting (NETWORK), 2004 – 2008. This involves a number of Universities and leading Industrial members.
- UK UK Government - QAA (Accreditation, Audit, and Quality Control Agency), Computing Subject reviewer. As a subject reviewer I visited and audited a number of computing, engineering, and business departments that offered Computing related degrees in UK Universities on behalf of the QAA, 2001 -2004.
- UK JISC (Joint Infrastructure for Sciences Committee for Universities) – JCIEL Programme Reviewer, 2000 - - 2002. I had acted as reviewer of infrastructure support of Science in Universities.
- UK UK Government - Office of the Prime Minister funded to set and run a Security WARP node for the Police forces Office and County Councils of the North West of England. The WARP provides advice about computer and network security breaches and problems. It also provided a forum for exchange of information and experience between the various stake holders.
- Promotion/Hiring (External Panel Member) *Teeside University, UK, November 2006 – Appointment Panel (chaired by the Vice-Chancellor and Chief Executive of the University) for The appointment of Professor and Director of the Digital Innovation Institute. This is a University Wide Institute which includes the Departments of Computing, Sociology, and Engineering.*
- Wolverhampton University, UK, May 2007 – Appointment Panel for Professor of Computer Science. The panel was chaired by the Vice-Chancellor and Chief Executive.*
- Leeds Metropolitan University, UK, October 2006 – Professorial Appointment Panel for Professor in Mobile Computing. The appointment panel was chaired by the Deputy Vice-Chancellor.*
- Salford University, UK, April 2003 - Professorial Appointment Panel for Professor of Computer Science. The appointment panel was chaired by the Deputy Vice-Chancellor.*

Honours & Awards

USA IEEE '11 Elected by USA IEEE as Communications Society Distinguished Lecturer, 2011 – 2013. Criteria are: the strength of the references in the nominations, expert subject matter of candidates, and oratorical reputation of candidates.

USA IEEE '10 Elected to USA IEEE's Chair of Comm. Society (COMSOC) - Home Networking (10-13).

UK '00-14 Engineering & Physical Research Council (EPSRC) - elected to Peer College for Networking Research (2000 – 2014). Peer College helps shape UK research agenda and strategy. The election is a national vote by UK researchers on leading members to represent them.

Malaysia Visiting Professor, University Malaysia Pahang, 2009 – 2010.

Peru Honorary Professorship, Universidad Dr Antenor Orrego, Trujillo, Peru, November 2005. This Honorary Professorship was awarded to me for my contributions to the field of computing as a researcher and teacher.

BSI British Standard Institute (BSI) Elected Member of Fieldbus standard Committee 1987 – 1990

IEE Elected MIEE, MIET 1992 –

UK Engineering Council, UK – Chartered Engineer (CEng) 1992 –

Keynote Speaker at International Events

- UK'15 "The Challenge of cascading effects of cyber-attacks in a network of critical infrastructures ", 14th European Conference on Cyber Warfare and Security ECCWS-2015, Hatfield, UK, 2-3 July 2015.
- Indonesia'14 " ICT in Sustainable Development", 3rd International Conference on Sustainable Technology and Development, Bali, Indonesia, October 2014
- Cyprus'14 "Three Decades of Ubiquitous Computing Development: Opportunities and New Challenges", WIMOB 2014 - 10th IEEE International Conference on Wireless and Mobile Computing, Networking and Communications", 8-10 October 2014, Larnaca, Cyprus.
- Jordan'13 "*Managing Macro and Micro Production and Distribution of Electricity*", 1st Int. Conference & Exhibition on the Applications of Information Technology in Developing Renewable Energy Processes and Systems, Amman-Jordan 29th-31st May 2013.
- Colombia'13 "*Cloud Computing and Security*", Cátedra Europa 2013, Universidad Del Norte, March 18-22, Barranquilla, Colombia,
- Ireland'12 "Security as a Service for Mobile Cloud", 5th IEEE Wireless Days Conference, November, 21-23, Dublin Ireland.
- Ireland '12 "Security in a federated world – How can you trust somebody when you've only just been introduced? ", Panel Member, tmforum – Management World, Dublin, Ireland, 21 - 24 May 2012.
- UK '12 "Protecting Our Critical National Infrastructure From Cyber Security Attacks ", Inside Government - UK Cyber Security Strategy: Embracing Innovation, Managing Threats forum, London, 20 March 2012.
- UK '11 "Critical Infrastructure Cyber Security: The Global Challenge", Symposium on Cyber Risk, Cyber Crime and Critical Infrastructure, Edinburgh, Dec. 2011.
- Brazil '11 "Energy Supply Chain Security", IEEE 3rd Latin America Conference on Communications, Belem, Brazil, October 2011.
- Germany '11 "Wireless Communications Security in Critical Infrastructure", IEEE 24th Local Area Communications Networks Conference, Bonn, Germany, Oct. 2011.
- Jordan '11 "Critical Infrastructure Protection: A 21st Century Challenge", IEEE International Conference on Communications Technology, Aqaba, Jordan, March 2011.
- Italy '10 "Ubiquitously Sharing Human Digital Memories – Practical Challenges", IEEE Wireless Days International Conference, Venice, Italy, October 2010.
- Yemen '09 "State of the Art in Wireless Networking", The 10th International Arab Conference on Information Technology, Sana'a, Yemen, December 2009.
- Abu Dhabi '09 "The Challenge of Society in the 21st Century - Being Remote but Always Connected", IEEE DeSE'09 International Conference in eSystems Engineering, Abu Dhabi, UAE, December 2009.

- Morocco '09 "Sharing and Protecting Digital Life Memories in a Networked Environment", IEEE International Conference on Multimedia Computing and Systems", Ouarzazate, Morocco, April 02-04, 2009.
- China '08 Edutainment Games and Learning Conference, Nanjing, China, June, 26 -27, 2008.
- Australia '06 "Networked Appliances and Computer Entertainment", International Conference on Cyber Games and Computer Entertainment, Perth, Australia, December, 2 -6, 2006.
- Algeria '07 *Algeria* – "The State of the Art in Network Security Research", Journée D'études de Cryptographie et Sécurité des Systèmes d'Informations, EMP, Algiers, 4-5 Nov. 2007.
- USA '06 "On Line Games and Security", Naval Postgraduate School, Monterey, USA, Sept. 2006.
- USA '06 "Digital Rights Management", IEEE WCPC Conference, San Diego, USA, Sept. 2006.
- UK '06 *UK FUTURE TV* live interview discussing topical issues on "Networking technologies and their use in online games and security systems", 2006. Interview can be accessed, internet streaming, on www.ukfuturetv.com/
- Peru '05 "Security in Ubiquitous Computing Environments", 2nd International Congress of Computing Systems, Trujillo, Peru, 07 – 1 November 2005.
- Japan '05 "Networked Appliances and Home Networking", International Workshop on the Ubiquitous Home, 16 March 2005, Tokyo, Japan.
- Japan '04 "Security for Seamless Global Connectivity and Services Anywhere, Anytime", International Conference on Broadband Networks, 7-9, April 2004, Kobe, Japan.
- UK '03 "Networked Appliances", The British Association - Festival of Science, September 2003, Manchester, UK.
- UK '03 "Networked Appliances and Programmable Networked Research", Engineering and Physical Research Council (EPSRC) Workshop on the future of research in Programmable Networks, Warwick, UK, 31Oct. – 1Nov. 2003.

Media External Communications/ Wider World Reputation

My research reputation and work has allowed me to contribute to a number of interviews in media outlets such as magazines and journals worldwide (as can be found in Google search engines). An example of this is a recent IEEE press release on security threats. The email from the IEEE showing the impact is included below.

Wednesday, 1 February 2012 21:50

Subject: IEEE Public Visibility - Kudos and Thanks

Dear Dr. Merabti,

We would like to thank you for your willingness to assist with IEEE's Public Visibility efforts by sharing your expertise to help us understand the latest in mobile hacking trends.

As a result of your assistance, we are pleased to share with you a number of pieces of coverage which we also encourage you to share with colleagues and other IEEE members. Coverage includes an [article](#) that appeared in CIO Brazil Magazine, and was picked-up by [Techlider.com](#), and [ITWeb](#) for a total of nearly 60,000 monthly views.

This is excellent press for you, the IEEE Public Visibility program and the IEEE as an organization. We are very excited about this success and appreciate all of the assistance we have received from you. We look forward to working with you again!

Sincerely,

Tracey Caliendo and the IEEE Public Visibility Team

cc: Vijay Bhargava, President, Communications Society

cc: Chuck Adams, Chair, IEEE Public Visibility Committee

I was also invited to contribute a video piece to UKFUTURE TV on my career, inspirations, and research contributions, as well as my views about the future of technology. As you can see from the web link, <http://www.ukfuturetv.com/>, the contributors are some of the most prominent personalities in all fields.

I have contributed BBC radio topical show on security and identity theft. A further contribution was a short interview with one of the UK regional newspaper on the effect on society of the game second life. Other interviews on Critical Infrastructure Protection have appeared in various Brazilian and UK Internet publications.

Journal Editorships

1. Associate Editor, "Computer Networks Journal", Elsevier, 2012 – Now.
2. Area Editor, "Consumer Communications", IEEE Communications Magazine, 2010 – Now.
3. Associate Editor, "Security and Communications Networks", Wiley, July 2007 – Now.
4. Editorial Board Member, "Journal of Computer Systems, Networking, and Communications", Hindawi Pub., June 2007 – Now.
5. Editorial Board Member, "Peer-to-Peer Networking and Applications Journal", Springer, January 2007 – Now.
6. Area Editor, "Home Networking", IEEE Communications Magazine, Sept 2005 – Now.
7. Associate Editor, "Computer Communications Journal", Elsevier, 2000 – – Now

8. Co-Editor in-chief for, “ International Journal of Pervasive Computing and Communications (JPCC)”, April 2005 -- 2008
9. Associate Editor, “IEEE Transactions on Multimedia”, 2004 --08
10. Guest Editor, Special Issue on “Research Developments In Consumer Communications and Networking”, Multimedia Tools and Applications: An International Journal, Kluwer, September 2005.

PhD Students Supervision

I have supervised the following student to successful PhD award (with thesis title):

1. Michael Carew, “Multimedia Network Architectures”, 1996.
2. Martin Hanneghan, “An Architecture to Support Virtual Concurrent Engineering”, 1998.
3. Robert Askwith, “A Mobile Networks Privacy Architecture”, 2000
4. Putra Sumari, “A Study of Storage Architecture for Video on Demand Services”, 2000.
5. Saeed Mahfouz, “Mechanisms for Differential Services in the Access Networks”, 2001.
6. John Haggerty, “DiDDeM: A System for Early Detection of Denial-of-Service Attacks”, 2004.
7. Hala Mokhtar, “Admissions Control Mechanisms in Multimedia Networks”, 2003.
8. Anirach Mingkhwan, “An Integrated Personal Mobility Services Architecture”, 2004.
9. Kenvi Wang, “Dynamic Priority Management Strategies of High Speed Internet Services”, 2005.
10. Chris Bewick, “Admission Control and Routing of Smoothed Video Streams”, 2005.
11. Paul Fergus, “Framework for Self-Adaptive Networked Appliances”, 2006.
12. Omar Abuelma'atti, “An Interoperability Architecture for Wireless Networked Appliances”, 2006.
13. Ted Huang, “A Collaborative Architecture for the Support of Next Generation Operation Support Systems”, 2006.
14. Gurleen Arora, “A Framework for Cascading Payment and Content Exchange with P2P Systems”, 2006.
15. Humayun Bakht, “Investigation of Mechanisms for Routing in Ad-Hoc Networks”, 2006.
16. Bo Zhou, “SUIDS: A Resource-Efficient Intrusion Detection System for Ubiquitous Computing Environments”, 2007.
17. Faycal Bouhafs, “Semantic Clustering Mechanisms for Communication in Wireless Sensor Networks”, 2007.
18. Alexander Soulahakis, “An Architecture for Mobile Communications in Hazardous Situations and Physical Disasters”, 2007.
19. Tarag Fahad, “Detecting Drop Packets in Ad Hoc Networks”, 2007.
20. Catherine Watts, “An Autonomic Control Plane for Networked Appliances”, 2007.

21. Huma Javed, "Middleware for Sensor Networks", 2008.
22. Kashif Kifayat, "Key Management and Security in Wireless Sensor Networks", 2008.
23. Muhammad Asim, "Active Control in Sensor Networks", 2010.
24. S. Abbas, "Identity-based Attacks Against Reputation-based Systems in MANETs", 2011.
25. K. Benahmed, "Distributed Monitoring for Secure Wireless Sensor Networks", 2011.
26. Chunling Song, "Region-Adaptive Watermarking System", 2012
27. A. Arabo, "Identity management in mobile ad-hoc networks", 2012.
28. H. Ur Rahman, "Memory for Life Systems Using Peer to Peer Networks", 2013.
29. Robert Hagerty, "Distributed Forensic in Cloud Computing Architectures", 2013.
30. M Zahid Khan, "A Zone Based Fault Management Architecture for Wireless Sensor Networks ", 2013.
31. Brett Lempereur, "Information Flow Monitoring: Model, Policy, and Analysis for Forensic Computing", 2013.
32. Chelsea Dobbins, "A System for Creating Rich and Interactive Human Digital Memories", 2013.
33. William Hurst, "Critical Infrastructure Protection", June 2014.
34. Ahmed Kozal, "Cognitive Radio Networks ", 2015
35. Bashar Alohai, " Key Management Scheme ", 2016

External Examiner for PhD Degrees

I have examiner over 42 PhD degrees in various topics (UK and overseas). These include:

Imperial College London (University of London) 1997, 2004, 2007; 2008, 2016; University College London (University of London) 2002; Glasgow University, 2007, 2011; Loughborough University 2006, 2011; Bradford University 1997, 2003, 2007; Lancaster University 1997, 2003, 2006, 2008; De Montfort University 2000, 2007, 2011; Salford University 2003, 2006; London South Bank University 1999, 2007; Heriot-Watt University 2007, 2014; Middlesex University 2008; Oxford Brooks University 2002. Sussex University, 2011; Essex University, 2011. 2013; Queens University (Belfast) 2012; Manchester University 2013, Napier University 2013. Huddersfield University 2017.

University of Bologna, Italy, January 2014

Waterford Institute of Technology, Waterford, Ireland November 2013.

University of Oulu, Finland, October 2013

University Paris XIII, -- France, January 2013

University of Franche-Comte – France, 2011

Royal Melbourne University (RMIT), Melbourne, Australia, 2007

University of Oviedo, Oviedo, Spain 2005

International Research Conferences Memberships

Conference Proceedings Editor/Co-editor	<p>IEEE 5th Workshop on Networked Appliances (IWNA), Liverpool, October 2002.</p> <p>PGnet - EPSRC Annual Conference Series on Networking, Liverpool 1999 – 2013</p> <p>GTWD Annual Series on Games Technology, Liverpool, 2002 – 2007</p> <p>ACSF – Advances in Computer Security Forensics, Liverpool, 2007 –09</p>
Steering Committees International Conferences	<p>IEEE Consumer Communications and Networking Conference (CCNC) series of conferences, from 2005 -- 2013</p> <p>IEEE International Workshop on Networked Appliances (IWNA) from July 2000 - - 2004</p> <p>UK PG Net (1999 – 2014) – Postgraduate Networking: The convergence of Telecommunications, Networking, and Broadcasting, a series of yearly research conferences sponsored by the UK EPSRC (Government) and various companies (Agilent, Cisco, HP, BT, Philips).</p>
Chair of international Conferences	<p>Chair of Special Areas in Communications Symposium, IEEE ICC'09 International Conference in Communications, Germany, 2009.</p> <p>Chair of EuroIMSA – The 5th International Conference on Internet and Multimedia Systems and Applications, July 13 -15, 2009, Cambridge, UK.</p> <p>Symposium Chair of Networking Security and Information Assurance, CHINACOM'06, Beijing, China, October 16 –19 2006.</p> <p>Conference Co-Chair for 4th International Workshop on Games Technology, Liverpool, Oct/Nov 2006.</p> <p>P2P Multimedia Workshop in IEEE 2006 International Conference on Multimedia and Expo, Toronto, Canada, July 9-12, 2006.</p> <p>Co-Chair for 1st ACSF Conference on Computer Security and Forensic, Liverpool, July 2006</p> <p>Chair of IEEE 2nd Digital Rights Management (DRM) Workshop, Las Vegas, January 2006 (Chair).</p> <p>2nd IEEE CCNC'05, IEEE Consumer Communications and Networking Conference, Las Vegas, USA, 2005 (Vice Chair)</p> <p>Conference Co-Chair for 3rd International Workshop on Games Technology, Liverpool, Oct/Nov 2005.</p> <p>IEEE Globecom'04, Co-chair of Symposium on Security and Network Management, Dallas, USA, November 2004.</p> <p>Programme Chair of IWNA 2002 – 5th IEEE International Workshop on</p>

Networked Appliances, Liverpool, October 2002

Membership of Conference Technical PC	2008	8 th IEEE Workshop on Wireless Local Networks (WLN'08), Montreal, Canada, 14 – 17 October, 2008.
Membership of Conference Technical PC	2008	8 th IEEE Workshop on Wireless Local Networks (WLN'08), Montreal, Canada, 14 – 17 October, 2008 IEEE International Symposium on Multimedia (ISM08) Dec 15 – 17, 2008, Berkely, Cal., USA. Innovation'08, Dec 2008, Dubai.
	2006	IEEE Globecom'06, San Francisco, USA, Nov/Dec ISC'06, 9th Information Security Conference, Samos, Greece, 30 August – 3 September 2006 ICDT 2006, International Conference on Digital Telecommunications, Cote D'Azur, France, August SECRYPT – International Conference on Security and Cryptography, Setubal, Portugal, 7 – 10 August. TEMU 2006, International Conference on Telecommunications and Multimedia, Heraklion, Crete, Greece, 05 – 07 July 2006. IEEE ISCC 2006 Conference on Computers and Communications, Italy, June 27-29, 2006. SecPerU 2006, SecPerU2006 International Workshop on Security, Privacy and Trust in Pervasive and Ubiquitous Computing, Lyon, France, 29 June 2006. IEEE ICC'06, Istanbul, Turkey, 10 – 16 June 2006. AINA 2006, Vienna, 17 – 21 April 2006.
	2005	MASCOTS 2005, 13 th Annual Meeting of the IEEE and ACM International Symposium on Modeling, Analysis, and Simulation, USA, October. International Conference on E-business and Telecommunication Networks (ICETE), England, June 2005 1 st IEEE International Workshop On Networking Issues in Multimedia Entertainment (NIME04), Dallas, USA, IEEE ISCC'05
	2004	MASCOTS 2004, 12 th Annual Meeting of the IEEE and ACM International Symposium, Netherlands, Oct. IFIP WCC2004 - World Computer Congress, Workshop on the Challenges of Mobility, Toulouse, France, August 27, 2004 HET-NETs'04, 2 nd International Conference on Performance Modelling and Evaluation of Heterogeneous Networks, Ilkley, UK, July 2004 IEEE ICC 2004, Conference on Home Networks, Paris, France, June 21 – 25, 2004 Information Assurance and Security (IAS'04), ITCC'04, Las-Vegas, USA, April 5-7, 2004. International Conference on E-business and Telecommunication Networks (ICETE), Portugal, April 2004 IEEE CCNC'04, IEEE Consumer Communications and Networking Conference, USA, January 2004
	2003	HET-NETs'03, 1 st Int. Conference on Performance Modelling and Evaluation of Heterogeneous Networks, Ilkley, UK, July IEEE ISCC'03;
	2002	IEEE ISCC'02; 2001 IEEE ISCC'01, WESIC'01

Programmes Certification and Quality Control

Quinquennial Review	<p>School of Science Technology, Buckingham University, UK, April 2012. A quinquennial review would examine the whole academic provision at Undergraduate, Postgraduate, as well as resources – human and Material.</p> <p>Brunel University School of Engineering, March 2010.</p>
External Examiner (Responsible for review & quality control of Curriculum, Exams, etc.)	<p>BSc Computing, School of Information Systems and Information Technology, Wolverhampton University, UK, 1997 – 2000</p> <p>BSc Computer Science, Department of Computer Science, Lancaster University, UK, 1999 – 2002</p> <p>MSc Communications and Computer Networks, Department of Computing, Leeds Metropolitan University, 1999 – 2002</p> <p>MSc Network Management, Department of Engineering, Sheffield Hallam University, 2003 – 2007</p> <p>MSc Innovation & Entrepreneurship in IT, Management School, Lancaster University, UK, 2003 – 2008.</p> <p>MSc Computer Communications, Middlesex University London, UK, 2006 – 2010</p> <p>BSc It – Chief External Examiner – Arab Open University, Kuwait, 2010 – 2015.</p>
Program Certification (External Panel Member)	<p>MSc in Telecommunications Network Management, Royal Signal Corps, UK Army Engineering Corps, 1998</p> <p>MSc Multimedia Communications, Department of Electronics, Brunel University, UK, July 2003</p> <p>MSc Mobile Computing, Department Electronics and Acoustics, Salford University, UK, December 2003</p> <p>Undergraduate Engineering Programmes Review, Department of Electronics and Acoustics, Salford University, February 2004.</p> <p>MSc Electronic Commerce, Business School, London South Bank University, UK, May 2004.</p> <p>BSc Computing & Information Systems, FTMS, Singapore, 2003</p> <p>BSc Multimedia, FTMS, Kuala-Lumpur, Malaysia, 2004</p> <p>BSc Information Systems, Business School, Colombo, Sri-Lanka, 2005</p> <p>Open University T325 Digital Media Technology, Course Advisor June 2008 – June 2009.</p>

Interdisciplinary Curriculum Developments

I have led a number of interdisciplinary curriculum collaborations between the School of Computing & Maths and other Schools within the University.

BSc Forensics Science	with School of Pharmacy & Bio-molecular Science
MBA E-commerce	with Liverpool Business School
M.A. Multimedia Art	with Liverpool Art School
MSc Telecommunications	with Engineering School
Games Design	with Liverpool Screen of Films
CPD in Creative Media	with Malaysian Higher Education (in discussion)

Other international curriculum collaborations are described under Advisory/Consultancy.

Curriculum Development in Computing

Since joining LJMU I have been, the **catalyst** for new curriculum development through the introduction of new modules and complete programmes of study at undergraduate and postgraduate levels. I have, personally, created the programmes, led the development, and produced modules for the following degree programmes (with their start dates).

9/2008	BSc Computer Animation and Visualisation. This programme addresses the need for interdisciplinary subject development for new applications bringing together media and art and computer technology. Graduates can expect a wide ranging careers in media, film, computing and IT.
9/2007	BSc Computer Forensics. This course was developed out of the needs for graduates that are technically capable of ensuring security in computer systems and capitalises on our Network Security expertise. Many of the current systems are under attack from external sources or may be used for crimes. The Forensics techniques allow us to help crime (particularly computer based) fighting and protect systems.
9/2002	MSc Computer Network Security. This course will allow students/professionals with an interest or experience in Computer Network Security to further develop advanced skills and understanding of Computer Network/Internet security architectures, protocols, related techniques and research & development issues in the field.
9/2002	MSc Digital Entertainment Systems. This course will allow students/professionals with an interest or experience in the use of digital media for entertainment to further develop advanced skills and understanding of the main technological and management aspects associated with the use of computing for entertainment. Examples of such systems are digital film, emusic, digital TV, edutainment and infotainment, amongst others. The course will also develop understanding about research and development issues in the field.

- 5/00 MSc Computer Games. This was the MSc in the area in the UK. It provides skills and training in new exciting technologies. The games industry is worth a \$20 Billion. The graduates from this course have jobs in the leading world companies both in the UK but also in the USA and Canada. Companies such as Sony, Electronics Arts (EA), and Microsoft Rare employ our undergraduates and MSc students.
- 5/00 MBA E-Commerce. This was a joint development between the Liverpool Business School and the School of Computing. I co-developed and personally taught students on the MBA.
- 05/99 BSc Multimedia Systems. Both this course and the equivalent MSc addressed the need for graduates that are capable of leading development of computing systems with the stringent requirements of multimedia (audio, video etc) and its real-time characteristics. Graduates are able to work in new TV and internet applications such as VO/IP.
- 12/98 Advanced MSc in Interactive Multimedia Systems (also Course Manager)
- 9/95 - - 98 Advanced MSc in Computing and Information Systems (also Course Manager)
- 9/92 - -9/95 BSc in Software Engineering (also Course Manager). This was the second ever course in the School of Computing. It addressed the new for graduates that are capable of producing software using up to date techniques and processes for quality control.

Other Degree Courses

These are the rest of degree courses offered by the School:

- BSc BSc Computer Studies; BSc information Systems; BSc IT and Multimedia Computing; BSc Computer Animation; BSc Mathematics; BSc Cyber Security.

External Funding Awarded (last 7 years)

02–06	EPSRC	£150000 (with Shi and Askwith) - “Secure Component Composition for Ubiquitous Personal Networks”. The funding was, again, obtained from the UK Research Council. The project investigated a difficult and highly relevant problem with pervasive networks of the present time. The increase in mobile, internet, sensor networks, and the great reliance on data stored in organisation wide information systems, means that individual are called to use very methods and tools to access these data stores. The challenge is how we keep systems secure when an additional component is added.
04 – 07	EPSRC	£60000 - “NETWORK” – A Network of Excellence on The Convergence of Telecommunications, Networking and Broadcasting. This project brought together eminent scientists and industrialists together to try to provide leadership to the next generation of researchers and engineers. It funded some small studies and a number of research conferences where PHD students, from most UK Universities, submitted papers and talks at the yearly gathering and supervised by an eminent steering committee.
04 – 08	EPSRC	£300000 (with Qi Shi) EPSRC Collaborative Training Award – Network Security and Networked Appliances. This competitive award was, again given by the UK Research council, for a select number of Universities to facilitate research collaboration and potent exploitation of research results with industry. It is hoped that the resulting product will enhance the UK competitiveness. A number of projects were undertaken and supported by the grant. The industrial collaborators include: Sony, Thales, and Selex Communication.
05 – 05	CESG	£12000 – Collaborative project on Cryptography with Marconi Selenia funded by CESG – Government Security Infrastructure Agency.
05-07	EU	200000 Euro (with Bob Askwith), EU Project with partners from Spain, France, Portugal and Eire on “Location Based Services”. The development of mobile phones and wireless internet access, via hot spots or WiMAX, will allow the deployment of many new services for industry and commerce. This project funded by the European Union, with partners from Spain, Portugal, Ireland, France, and UK, studied the deployment of an area wide information service for businesses such as tourisms or the local government.
06 – 07	Gov	£25000 – Prime-Minister’s Office to set up Security (warning and advice) WARP Node for emergencies services.
06 – 07	Gov	£20000 - Office of Deputy Prime Minister to set-up WARP node for a similar effort on behalf North-West Local Government councils.
06 – 07	BBC	£15000 (with EI-Rhalibi), “Games’ Engine Infrastructure”. Under this project a study and deployment of a prototype software to allow access to the TV and internet output through games machines such Ninetendo or Sony play station and PSP3. Much of the BBC’s

young audience spend a large amount of large time playing and using Game consoles. The access of TV output through this medium would allow the broadcaster, in this case the BBC, to engage with their audience at times when they are not watching the television or logged in the Internet.

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| 06 – 08 | BBC | £60000 (with El Rhalibi), Web-Based 3D Games Engine and Editor. This project funded by the BBC research and development department aims to design and build a games system that would allow the young (and old) audience to their web site to experiment with making and deploying games. The BBC web site has a number of learning applications as well as broadcasted programmes' information. It is one of the most popular web site in the country. The BBC aims to attract and retain this core, and in particular young audience, to its programmes. The Games' interface is an important interface as well as a pole of attraction. |
| 07 – 08 | THALES | £60000 Project on Network Security, sponsored by the multinational company THALES, under no disclosure agreement as it is commercially sensitive. |
| 07 – 11 | EPSRC | £100000 PhD Studentships for three students to research Networking and Security. |
| 07 – 10 | EU | 1 Million Euros (out of 12 Million Euros) (With Taleb-Bendiab) for Services Architecture. This project will address the provision of new Web Based Services. |
| 08 – 09 | BBC | £80000 (with El Rhalibi) project on Middleware for Multiplayer Online Games Development. This project further expand the earlier BBC funded project to cater for the increasing demand by children and adults who access the BBC website for novel ways of entertainment. It further capitalises on our Games Technology Laboratory expertise to develop systems and software that meet these needs. |
| 08 – 11 | EPSRC | £66000 Case Studentship funded by EPSRC and Qiniteq and Tubedale Comms. companies. The student is developing research into Computer Forensics with a direct application to industry. |
| 09 – 10 | BBC | £84000 (with El Rhalibi). This a further support to continue the research collaboration on Games Technology and its implications for future broadcasting technology. In particular, this project will investigate exploitation paths of our research results with the BBC's programme producers. |
| 10 – 14 | EU | 700000 Euros FP7 ANIKETOS, out of a 10 Million Euros project involving 17 partners in 10 EU countries to develop novel secure systems for business and government. |
| 12 - 13 | UK | £200000 UK SPACE AGENCY – Security System |
| 12 – 14 | EU | 161000 Euros – ECENTRE: Cybercrime Centre of Excellence Network for Training Research and Education. |
| 15 - 18 | EU | 2,104,948 Euros - WI 5 (What to do with the WIFI Wild West). An An EU funded project involving 4 EU countries and 5 partners. I was the coordinator and project leader. |

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