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Queen Mary University of London
Mile End Road
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Education

- 2007 – 2010** Queen Mary University of London
Post Graduate Certificate in Academic Practice – **PGCAP** (Awarded June 2010)
- 2003 – 2007** Queen Mary University of London
PhD Electrical and Electronic Engineering (Obtained July 2007)
Thesis title: “Antennas and Radio Propagation for Body-Centric Wireless Communications”
- 1999 – 2003** Queen Mary University of London
MEng Communications Engineering, **First Class** (Achieved).
- 1998 – 1999** University of East London
Science and Engineering Foundation Year, **First Class** (Achieved)

Professional Experiences

Reader in Antennas & Applied Electromagnetics/Senior Tutor, Queen Mary University of London (May’18-present)

Leadership of substantial research group and teaching programmes and activities within areas of interests and beyond. Undertake research activities and make significant contributions to the field of Antennas, Electromagnetics and Communication Systems. Establish research leadership and broaden potential interdisciplinary research activities both within and outside QMUL. Engage in learning and teaching activities relevant to the school and undertake various administrative roles within the school. Participate in outreach activities where necessary to assist in recruitment and widening participation and enhance public engagement.

Senior Lecturer (Associate Professor)/Senior Tutor, Queen Mary University of London (Oct’14-May’18)

Undertake research and leadership activities and make significant contributions to the field of Antennas, Electromagnetics and Communication Systems. Establish research leadership and broaden potential interdisciplinary research activities both within and outside QMUL. Engage in learning and teaching activities relevant to the school and undertake various administrative roles within the school. Participate in outreach activities where necessary to assist in recruitment and widening participation and enhance public engagement.

Lecturer (Assistant Professor)/Senior Tutor, Queen Mary University of London (Oct'07-Sept'14)

Undertake research activities and make significant contributions to the field of Antennas, Electromagnetics and Communication Systems. Establish research and broaden potential interdisciplinary research activities both within and outside QMUL. Engage in learning and teaching activities relevant to the school and undertake various administrative roles within the school. Also, participate in outreach activities where necessary to assist in recruitment and widening participation.

Research Assistant, Queen Mary, University of London (Dec'06–Sept'07)

Job involved investigating the modelling, design and implementation of body-worn antennas for UHF bands to be applied in defence and military applications. The job also involved the derivation of design guides and theoretical considerations for wearable antennas. The project was funded by DSTL, UK.

Teaching Assist. (Part-time), Queen Mary, University of London (Sept'03–Aug'06)

Job involved assisting and helping students with tutorials, labs and courseworks. Organising laboratory sheets and apparatus and also providing contributions to coursework and potential test questions. Communicating with students in one-to-many and one-to-one manners for help with tutoring and understanding problems.

Summer Researcher, Queen Mary, University of London (July'02–Sept'02)

Job involved investigating the possibility of designing and implementing new techniques in controlling the main beam of a microstrip antenna integrated with Lens antennas.

Adjunct Positions

- Visiting academic at IETR/University of Rennes 1 (France), May 2016
- Visiting academic at Texas A&M University at Qatar, April 2013 and October 2015
- Senior scientist at the National Physical Laboratory (UK), 2014 (Royal Academy of Engineering Industrial Secondment for 0.8 FTE)

Achievements & Awards

- Recipient of the Queen Mary University of London Education Excellence Award 2019 for the team work on Technical Thinking & Writing Initiative.
- Won the first place in the Qatar National Research Fund (QNRF) competition of 'Best Representative Image of an Outcome (BRIO) 2018'.
- Two-time co-recipient of the Abu Dhabi Department of Education and Knowledge (ADEK) Award for Research Excellence 2017 & 2018 – Biomedical EM Solutions.
- Five Keynote Speeches at various international conferences including the “16th Mediterranean Microwave Symposium (MMS2016)”, in Abu Dhabi on 16 November 2016, in addition to keynote speeches coming up in 2018 for both URSI-Turkey in September 2018 and also the International Symposium on Advanced Electrical and Communication Technologies in Morocco in November 2018.
- Recognition by European Alliance for Innovation (EAI) as Excellent TPC Chair and Local Organising Committee Chair for MobiHealth 2015 in London, UK, 14 to 16 October 2015.
- Nominated 'Teacher of the Year' for 2010 and 2011 and also the Draper's Award for Excellence in Teaching.
- Recognition of Top ranked proposal for Royal Academy of Engineering Industrial Secondment round awarded in June 2013.

- TEDx Speaker (December 2012) on our latest research in the Science Fiction of Electromagnetism.
- Winner of the 2011 Ismabard Kingdom Brunel Award for Best Young Science Communicator at the British Science Festival, September 2011.
- Various media appearances including Interview by Aljazeera English, feature articles in Weekly News and VerticalNews.
- Finalist in Best Young Investigator Competition in the International Workshop of Implantable and Wearable Body Sensors (Body Sensor Network - BSN 2007), Aachen, Germany.
- IEE Best Final Year Student Prize 2003 for outstanding achievement in the final year and best student overall in programme of study.
- Drapers' Company Undergraduate Prize for academic excellence at Queen Mary, University of London from the Drapers' Charitable Fund, September 2002.
- Anthony Williams Memorial Prize for Outstanding Academic Achievement, academic year 1999-2000.
- Queen Mary, UoL, college full research scholarship 2003-2006.
- Overseas Research Scholarship (ORS) award 2003-2006 for support with further research studies.
- First Year Undergraduate Scholarship in the Department of Electronic Engineering, Queen Mary University of London, September 1999.

Research & Scientific Activities

Professional Affiliation and Activities:

- Memberships
 - Chartered Engineer, The Engineering Council UK
 - Fellow of the Higher Education Academy
 - Member of UK URSI (International Union of Radio Science) panel to represent the UK interests of URSI Commission B (1 Sept 2014 until 31 Aug 2020).
 - College member for the Engineering and Physical Sciences Research Council (EPSRC)
 - Reviewer for the Swiss National Science Foundation (SNSF)
 - Senior Member of the Institute of Electrical and Electronic Engineers (IEEE)
 - Associate member of the IEEE Engineering in Medicine and Biology Society (EMBS) Technical Committee on Wearable Biomedical Sensors and Systems.
 - Member of IEEE P1900.7 - Radio Interface for White Space Dynamic Spectrum Access Radio Systems Supporting Fixed and Mobile Operation Working Group
 - Member of IEEE P1906.1 - Recommended Practice for Nanoscale and Molecular Communication Framework Working Group
 - Member of the European Association on Antennas and Propagation (EurAAP)
 - Member of the European School of Antennas (ESoA) Network
 - Member of the Institute of Engineering and Technology (IET)
 - Member of Outreach team at the School of Electronic Engineering and Computer Science, QMUL
 - Co-founding Member of Enhancing Students' Employability Task Force (ESET) at Queen Mary, University of London, Science and Engineering Faculty.
 - Member of the IEEE Dignitaries Panel Discussion at IEEE UKRI Section Student Branch Congress, 2 - 4 September 2011, Queen Mary, University of London, UK.
- Examination Committees

- External examiner for Nottingham Trent University for their Biomedical, Electronic and Sport Engineering degree programmes (Sept 2017 to December 2021).
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- PhD/MPhil examiner for COMSATS University, Pakistan (2), Universitat Politècnica de València, Spain, Thapar Institute of Engineering & Technology, India, Universidad de Castilla-La Mancha, Spain, Chiba University, Japan, Military College of Signals (NUST), University of Engineering and Technology Taxila (4), Pakistan, University College London, UK, King's College London, UK, Tezpur University, India, Ghent University, Belgium, The University of Queensland, Macquarie University (2), Australian National University (ANU)/NICTA, Australia, Imperial College London, UK, Tecnun Universidad de Navarra, Spain, Loughborough University (4), UK, Anna University, India and Maulana Azad National Institute of Technology, India, University of Malta, Malta
- PhD committee member for University of London candidates
- Conferences and Workshops Organisation
 - Local organisation chair for European Conference on Antennas and Propagation (EuCAP) 2018 in London, UK.
 - TPC Co-chair for MobiHealth 2017 in Wien, Austria, November 14-16, 2017
 - TPC Chair and Local Organising Committee Chair for MobiHealth 2015 in London, UK, 14 to 16 October 2015 (Recognition Award by EAI as Excellent TPC Lead).
 - Technical Programme Committee (TPC) Chair and Local Organising Committee Chair for IEEE MTT-S International Microwave Workshop Series on RF and Wireless Technologies for Biomedical and Healthcare Applications (IMWS-Bio 2014), London.
 - Special Sessions Chair for MobiHealth 2014 in Athens, Greece
 - Publication/Publicity chair and organising committee member for:
 - UCMMT 2019, London, UK, August 2019
 - ACM NanoCom 2016 and 2017
 - Metamaterials 2009 in London, UK
 - IET seminar on Antennas & Propagation for Body-Centric Wireless Communications
 - European School of Antennas course on Antennas & Propagation for Body-Centric Wireless Communications (2009, 2011, 2013 and 2019).
 - Loughborough Antennas & Propagation Conference 2008 (LAPC 08), Loughborough
 - International Workshop on Antenna Technology 2007 (iWAT 07), Cambridge, UK.
- Editorial boards
 - Associate editor for IEEE Antennas and Wireless Propagation Letters (2018 - present)
 - Associate editor for IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology (2017 - present)
 - IEEE Access Special Issue on Wearable and Implantable Devices and Systems (Guest Editor 2017/2018)
 - Hindawi Wireless Communications and Mobile Computing Special Issue on Antenna Systems for Internet of Things (Guest Editor 2017/2018)
 - Applied Sciences Special Issue on Wearable Wireless Devices (Guest Editor 2017/2018)
 - Elsevier Nano Comms Journal Special Issue on "In-and-off Body-Centric Nano-scale Wireless Communication and Networks" (Lead Guest Editor 2016/17)

- IEEE Access Special Issue on Nano-antennas, Nano-transceivers, and Nano-networks/Communications (Guest Editor 2016/2017)
- IEEE ComSoc Best Readings on Nanoscale Communication Networks (Editor, March 2015)
- IEEE Transactions on Microwave Theory and Techniques Mini-special issue on IEEE MTT IMWS-Bio 2014 (Guest 2014/2015).
- Electornics (ISSN 2079-9292, MDPI Publications) special issue on Wearable Electronics (Guest 2013/2014).
- Hindawi Journals ISRN Sensor Networks and Journal of Wireless Networking and Communications
- Reviewer for (including but not limited to):
 - IEEE Transactions on Antennas & Propagation, Microwave Theory & Techniques, Information Technology in Biomedicine, Vehicular Technology, IEEE Journal on Selected Areas in Communication, IEEE Antennas & Wireless Propagation Letters
 - IET Communications, Sensors and IET Microwaves, Antennas & Propagation
 - Scientific Reports (Nature Publishing Group), Elsevier Physical Communication Journal, Advanced Electromagnetics Journal, Journal of Sensors, Journal of Electromagnetic Waves and Applications (JEMWA), Progress in Electromagnetic Research and Annals of telecommunications
 - IEEE conferences and workshops in USA and Europe in addition to many international conferences such as Asia Pacific Microwave Conferences
 - Wiley & Sons books on antennas and radio propagation.
 - Expert Reviewer for The UK National Commission for UNESCO (UKNC) for the Newton Prize as part of their broader Newton Fund.
 - Expert Reviewer for the Research Council of Oman, Swiss National Science Foundation (SNSF) Research, the Engineering and Physical Sciences Research Council (EPSRC), United Kingdom and the Medical Research Council (MRC), UK

Plenary & Invited Talks

(In addition to the ones below, over 40 invited talks were delivered at international and national conferences and workshops)

- **Delivering a plenary talk at BioEM 2020 in Oxfröd, UK in June 2020 on "Nano-scale Communication and Sensing at THz Bands".**
- **Keynote speaker at the 5th CTIF Global Capsule (CGC) Workshop-5G and Beyond on 17 June 2019 at the University of Huddersfield, UK, on "Reconfigurable and Flexible Antenna Solutions for 5G and Beyond"**
- **Keynote speaker at the International Symposium on Advanced Electrical and Communication Technologies (ISAECT 18), 21 to 23 November 2018, Rabat, Morocco.**
- **Keynote speech on "EM in Biology and Medicine" at the 2018 URSI-Turkey Congress, in Konya, Turkey, 6 to 8 September 2018.**
- Invited talk at the Institute for Communication Systems (ICS) at the University of Surrey on our recent research related to novel flexible and efficient reconfigurable antennas from low GHz to Millimetrewave on 3rd August 2017.
- Delivering invited talk on "Wearable Technology and the Quantified Self: EM Engineer Perspective" at Hamad Bin Khalifa University, Doha, Qatar on 28 Feb 2017.
- **Keynote speaker at the "16th Mediterranean Microwave Symposium (MMS2016)", in Abu Dhabi on 16 November 2016.**
- IETR/University of Rennes 1 (France), "Wearables, Textile/Flexible Antennas and Nano-scale Communications", 18 May 2016.

- Texas A&M University at Qatar, Wireless Communication Group, "Wearable Antennas and Radio: Textile to Nano-scale!", 26 October 2015.
- Invited talk on 'Wearable Technology Opportunities' at the Smartex Near Field Club Meeting on 15 September 2015 at the Park Tower Knightsbridge.
- **Keynote speech on wearable and smart radio systems at the BELgian network on STochastic modelling, analysis, design and optimization of COMMunication systems annual workshop (IAP BESTCOM) in Ghent University, Belgium on 30th April 2015**
- Invited talk on antennas and radio systems for Wearable Technologies at Qatar Computing Research Institute (QCRI) on 20th November 2014, Doha, Qatar.
- Presented at SCL Technology Law Futures Forum in London on 26 June 2014 our work on Wearables and Healthcare as part of Centre for Intelligent Sensing
- Tsinghua University, The Microwave and Antenna Institute, "Antennas with Multiple Degrees of Reconfiguration for Cognitive Radio and Future Wireless Communication Systems", 12 December 2013.
- University of Warwick, Dept. of Physics, "Recent Advances in QMUL Antennas and EM Research", Institute of Physics (IoP) Evening Talk Series, November 2013.
- Texas A&M University at Qatar, Wireless Communication Group, "Antennas and Radios: Making You The Centre of Smart Healthcare Networks", 2 April 2013.
- DSTL Antennas Working Group (DAWG) workshop 2012, "Novel and Advanced Solutions for Body-Centric Research and Reconfigurable Antenna Front-Ends".
- IET Seminar on Body-Centric Wireless Communications, "Antennas and radio propagation for low-power cooperative Body Centric Wireless Networks", IET Savoy Place, London, 27th June 2011.
- Seminar on "Antennas and Propagation for Cooperative and Low-Power Body-Centric Wireless Communication", University of Surrey, 2010.
- **Keynote at the Workshop on Wireless Communication & Networking, December 19th 2009, UET Lahore, Pakistan, "The Future of Body-Centric Communications: Antennas, Propagation and Cognition", Keynote Online Presentation.**
- IET Solent Network - Isle of Wight Section, Evening Event Lecture, 24 September 2009, "The Future of Body-Centric Communications"

Research Grants and Funding (Total of around £1.7m as PI and £4.4m as Co-I to date)

- Research Council Projects
 - PAMBAYESIAN: PATient Managed decision-support using Bayesian networks, Co-investigator – EPSRC Intelligent Technologies for Collaborative Care Fund (Total for consortium £1.9m, July 2017 – July 2020)
 - Enabling High-Speed Microwave and Millimetre Wave Links (MiMiWaveS), Co-investigator – EPSRC funded project in collaboration with King's College London (£648k, June 2016 – May 2019)
 - Numerical Analysis and In-vitro Demonstrator of Small-scale Communication Networks for Healthcare Monitoring Applications, Principle investigator – Qatar National Research Foundation NPRP fund with Texas A&M University at Qatar (£550k, Feb 2015–Jan 2018)
 - EPSRC Off-campus Business Engagement Fund, Principle investigator – EPSRC funding through QMUL internal competition (£12.5k, Jan–Apr 2015)
 - EPSRC CDT Capital Equipment Fund for Media and Arts Technology Doctoral Training Activities, EPSRC funded capital to purchase a variety of equipment specifically embroidery and textile-flexible electronics facilities (£314k, Sept 2014)
 - PATRICIAN: New Paradigms for Body Centric Wireless Communications at MM Wavelengths, Engineering and Physical Sciences Research Council (EPSRC) funded

- project in collaboration with University of Birmingham and Durham University (£1.2m, 2011 – 2014)
- Reconfigurable Antennas and Radio Front-ends for Cognitive Radio, EPSRC funded PhD studentship (£60k, 2010 – 2014)
 - Platform Grant: Antennas for Healthcare and Imaging, EPSRC funded platform grant (£1.1m, 2008 – 2013)
 - Post-Doctoral Support for Research Students, EPSRC ImpactQM funded post-doctoral training for research students (£10k, 2012)
 - Industry Secondment – Enhancement and optimisation of antenna performance for personal health devices, EPSRC ImpactQM funded secondment with Acute Technology Ltd. (£12k, 2012)
 - Smart Antenna Systems for Cooperative Low-Power Wireless Personal and Body Area Networks, EPSRC funded project (£122k, 2010 – 2011)
 - Summer vacation Bursary, EPSRC funded bursary for Research Assistant (£1.5k, 2008)
- Other and Industrial Funding
 - UWB Antenna Front-end Solutions for Localisation and Tracking, Consultancy for Sportable Technologies Ltd., PI (September 2019 – April 2020)
 - MASH: Millimetre-wave AI-enabled Smart Healthcare monitoring, Innovate UK, QMUL PI – Lead by NodeNS Medical Ltd. (Total of £31k, February – August 2019)
 - Atrial Fibrillation Prediction Using WBAN-ECG Monitoring System, Abu Dhabi Department of Education and Knowledge (ADEK) Award for Research Excellence 2018, QMUL PI – Lead by Al Ain University of Science and Technology and in collaboration with University of Glasgow UK (Total of £90k, January 2019 – December 2020)
 - Sensing the Human Skin for Medical Diagnostic and Prevention in Personalised Healthcare Applications, Abu Dhabi Department of Education and Knowledge (ADEK) Award for Research Excellence 2017, QMUL PI – Lead by UAE University and in collaboration with University of Glasgow UK (Total of £90k, January 2018 – December 2019)
 - Design, fabrication and ex vivo validation of a body-centric localisation and tracking system for use in a robotised wireless capsule endoscope, Principle Investigator – QMUL Life Sciences Initiative Proof of Concept Fund (£50k, July – June 2017)
 - Beam Loss Reduction by Barrier Buckets in the CERN Injector Complex – Principle Investigator – QMUL (UK) and CERN (Switzerland) jointly funded PhD studentship (£65k, September 2017 – September 2020).
 - AMMETEX: Advanced Material Structures for Meta-Textile – Principle Investigator – Innovate UK with Intrinsic Materials Ltd. (£150k, Feb – Oct 2016)
 - Circular and Linear Polarised Antennas for Broad and Multi-Band Performance – Co-investigator – Innovate UK/MoD GNSS Antenna SBRI Phase 1 Funded with Rockwell Collins UK Limited (£50k, March – June 2014)
 - Novel Antenna Structures for Airborne Applications – Co-investigator – Selex ES Funded (£66k, May – December 2014)
 - Advance Traceable Measurements for Wearable Antennas, Royal Academy of Engineering Industrial Secondment Scheme (£75k, April 2014–November 2014)
 - Technologies for Control of Advance Tele-robotic, Technology Strategy Board (TSB) Funded with the Shadow Robot Company (£150k, July 2013–June 2014)
 - Novel Antenna Structures for Low Frequencies, Selex ES Funded (£60k, July 2013–January 2014)

- Understanding and Characterising Nano-scale Communication Networks for Healthcare Monitoring Applications (Institute of Bioengineering), QMUL Funded full PhD studentship (£80k, 2013–2016)
- GNSS Handset: Improved Antenna and LNA Front-end, Funded by Trimble Navigation Ltd., New Zealand (£98k, 2013)
- Novel Composite Radiator, Funded by Defence Science and Technology Laboratory (£40k, 2011–2012)
- Ultra Wideband Localisation Techniques for Accurate Motion Capture Solution in Healthcare Monitoring Systems, QMUL funded PhD studentship (£80k, 2011–2014)
- Efficient Integrated Antennas for Wireless Smart Metering Solutions, Consultancy funded by Onzo, Ltd., UK (£15k, 2010)
- Smart On-Body Wireless Sensor Networks for Healthcare Applications, Funded by Innovation China UK in collaboration with Fudan University, China (£15k, 2009)
- Wireless Sensors Network for remote monitoring in Healthcare and Sport applications, Funded by the Westfield Trust (£5k, 2008)
- Nuffield Foundation Bursary, Funded by the Nuffield Foundation (£3k, 2008–2009)
- Various other projects on medical implants, body-worn antennas and healthcare sensors – Main researcher, Funded by Philips Research Europe and China, GE Healthcare USA and Defence and Science Technology Laboratory UK (Total of £80k, 2005–2007)

Post-doctoral/Researcher Assistants and PhD Students

First supervisor to 20 PhDs (13 completed) and academic supervisor to 11 Postdoctoral/Research Associates (currently 2), Antennas and EM Research Group, Queen Mary Uni. of London (Since 2007)

- Post-docs and Research Assistants
 - Current Research Assistants
 - Mr Isidoro Ibanez Labiano, "Design, fabrication and ex vivo validation of a body-centric localisation and tracking system for use in a robotised wireless capsule endoscope", Research Assistant, QMUL Life Sciences Initiative Proof of Concept Fund, February 2019 - present.
 - Mr Zia Ullah Khan, "UWB Receive Antenna Designs", Research Assistant, Sportable Ltd., October 2019 - present.
 - Past Research Assistants
 - Ahmed Khalid Aziz, "Design, fabrication and ex vivo validation of a body-centric localisation and tracking system for use in a robotised wireless capsule endoscope", Research Assistant, QMUL Life Sciences Initiative Proof of Concept Fund, February 2018 - March 2019.
 - Ke Yang, "Numerical Analysis and In-vitro Demonstrator of Small-scale Communication Networks for Healthcare Monitoring Applications", Post-doctoral Research Assistant, Qatar National Research Fund, November 2015 - January 2018.
 - Syeda Fizzah Jilani, "AMMETEX: Advanced Material Structures for Meta-Textile", Research Assistant, Qatar National Research Fund, February 2016 - December 2016 and "Design, fabrication and ex vivo validation of a body-centric localisation and tracking system for use in a robotised wireless capsule endoscope", Research Assistant, QMUL Life Sciences Initiative Proof of Concept Fund, February 2018 – October 2018.
 - Qiao Cheng, "AMMETEX: Advanced Flexible Materials for Electronics", Research Assistant, Innovate UK funding, September 2016 to December 2016.

- Christine Farion, "QMUL Wearable Creativity and the Wearable Technology Show", Research Assistant, EPSRC Off-campus Business Engagement, January 2015 – April 2015. (Now PhD Student in QMUL MAT Programme)
- Manmohan Sharma, "Advanced Technologies for Tele-robotics", Research Assistant, TSB R&D Feasibility Study project, July 2013 – July 2014. (Now a PhD Researcher at Queen Mary University of London)
- Rhiannon Mitchell-Thomas, "Novel Antenna Structures for Low Frequencies", Post-Doctoral Research Associate funded by Selex ES, UK.
- Dr Sheng Wang, "Improved Antenna and LNA Front-end for GNSS Hand-Held Unit", Post-Doctoral Research Assistant funded by Trimble, NZ., April 2012 - June 2013. (now post-doctoral research assistant in University of Leicester).
- Mr Oluyemi Falade, "Novel Composite Radiators", Research Assistant funded by DSTL, December 2011 – April 2012. (now Research Student at Antennas in QMUL)
- Dr Raffaele Di Bari, "Smart Antenna Systems for Cooperative and Low Power Body/Personal Area Networks", Post-Doc funded by EPSRC, September 2010 – March 2012. (now Senior Antenna Engineer at EADS Astrium UK)
- Dr Mohammed Monirujman Khan, "Wireless Wearable Sensor Networks for Healthcare Applications", January 2009 – April 2009. (Graduated PhD student in January 2012 and now an academic in Bangladesh)
- PhD Students
 - Current Students
 - Primary Supervisor of:
 - Eaman Alharbi, "Wearable and User-centric Technology to Assess Social Engagements and Interactions Effect on Wellbeing", started January 2019 and funded by Saudi Arabia Ministry of Education.
 - Reham Awadh S Alhejaili, "Machine Learning and AI Techniques for Wearable Solutions in Mental Wellness Solutions", started September 2019 and funded by Saudi Arabia Ministry of Education.
 - Muhammad Usman Ejaz, "Mm-wave and THz Meta-surfaces for Bio-sensing Applications", started September 2018 and funded by Higher Education Commission, Pakistan.
 - Zia Ullah Khan, "Large Array Structures for High Datarate 5G Applications", started March 2017 and jointly supervised with Dr Tian Hong Loh from the National Physical Laboratory.
 - Isidoro Ibanez Labiano, "Integrated and Flexible Radio Front-ends for Next Generation Wearable Devices", started March 2018 on QMUL Principal's Postgraduate Research Studentship.
 - Wanli Li, "Sensing and Control of Soft Robotics", started September 2016 and funded by Chinses Scholarship Committee.
 - Shohreh Nourinovin, "Terahertz Bio-sensing Solutions for Healthcare Applications at the Nano-scale", started September 2019 and funded by QMUL Principal's studentship.
 - Mihaly Vadai, " Beam Loss Reduction by Barrier Buckets in the CERN Injector Complex", started September 2017 and funded by QMUL and CERN (Switzerland)
 - Second Supervisor of:
 - Jhih-Hong CHENG – Terahertz Microfluidics System and Terahertz Circular Dichroism application in Disease Diagnostics

- Amelia Shivani Hassard – Strategies for Narrative Storytelling in INteractive Virtual Reality
 - Ardavan Rahimian – Integrated Millimetre-Wave Array Beamforming Networks for 5G Wireless Communication Systems
 - Najmeh Rezaei – Design, Modelling, and Control of an Integrated Converter and Battery Charger System for Electric Vehicle Powertrains
 - Yulia Silina – Understanding Interfaces for Connected Computational Jewelry
 - Dingliang Wen – Antenna Design based on Characteristic Mode Theory
- Past Students
 - Dr Katrin Hansel, "The potential of emerging wearable physiological sensing in the space of human-subject studies", completed in June 2019 (now Post-doctoral Research Fellow at Cornell Tech and Northwell Health, USA).
 - Dr Ahmed Khalid Aziz, "Sensing at Optical and Terahertz Frequencies", completed in December 2018 (now PDRA at Cambridge University, UK).
 - Dr Rui Zhang, "Characterisation of the Electromagnetic Communication Channel and Artificial Human Skin at the Terahertz Band for In-vivo Wireless Nano-Sensor Networks", completed in October 2018 (now PDRA at Beijing Institute of Technology, China).
 - Dr Syeda Fizzah Jilani, "Design, Modelling, and Characterisation of Millimetre-Wave Antennas for 5G Wireless Applications", completed in August 2018 (now PDRA at University of Maine, USA).
 - Dr Nanda Khaorapapong, "Subtle Technology: Designing to Facilitate Face-to-face Interaction in Socially Anxious People", completed in July 2018 (now Electronics Teaching Lab Assistant at QMUL, UK).
 - Dr Qiao Cheng, "Compressive Sensing for Microwave and Millimeter-Wave Array Imaging", September 2014 - September 2017 (now Post-doctoral Research Assistant at QMUL, UK).
 - Dr Nishtha Chopra, "Characterisation of Skin-based THz Communication Channel for Nano-scale Body-centric Wireless Networks", November 2013 - March 2017. (now High Radiation Protection Scientist at Public Health England, UK)
 - Dr Ke Yang, "Characterisation of the In-vivo Terahertz Communication Channel within the Human Body Tissues for Future Nano-communication Networks", September 2011 – November 2015. (now Post-doctoral Research Assistant at QMUL, UK)
 - Dr Richa Bharadwaj, "Investigation of 3D Positioning Accuracy Enhancement Using Impulse Ultra Wideband Radio", January 2011 - July 2015. (now Faculty Member in the Department of Electronics and Communication Engineering, Thapar University, Patiala, India)
 - Dr Yansha Deng, "Cognitive Networks", September 2012 – January 2015. (Now Post-Doctoral Research Assistant in King's College London, UK)
 - Dr Khaleda Ali, "Numerical Modelling and Channel Characterization for Wireless Body Area Network", September 2010 – November 2014. (now Assistant Professor at University of Liberal Arts, Bangladesh)
 - Dr Tamer Aboufoul, "Novel and Compact Reconfigurable Antennas for Smart Wireless Communications", September 2010 – December 2013. (Antenna Engineer at Apple Inc. from April 2014)
 - Dr Mohammed Monirujjman Khan, "Wearable Antenna Design Guide and Theoretical Analysis for Low-Power Body/Personal Area Network", September 2008

- January 2012. (now Assistant Professor at American University, Dhaka, Bangladesh)
- Dr Qammer H. Abbasi, "Enhanced Antenna and Radio Systems for Body-Centric Wireless Communications", January 2009 – December 2011. (Now Assistant Professor at Electrical Engineering Department, University of Engineering & Technology, Lahore, KSK, Pakistan)
- Visiting Researchers
 - Dr Wayne Rowe, "Flexible and Integratable body-centric Antennas", from RMIT University, Australia, August 2019.
 - Dr Saeed Alamri, "Flexible Graphene-based Inkjet-printed Wearable Antennas", from Al-Baha University, Saudi Arabia, June 2019.
 - Dr Mohammed Bait-Suwailem, "Wearable and Flexible Antennas Backed by Advanced EM Structures for 5G and Beyond", from Sultan Qaboos University, Oman, September 2018-August 2019.
 - Dr Najah Abed Abu Ali, "Advanced Networking Concepts for Nano-scale EM-based Body-centric Wireless Communications", from United Arab Emirates University, UAE, July-August 2017.
 - Armita Afsharinejad, "THz Spectroscopy and Channel Characterisation for Vegetation", from Waterford Institute of Technology, Ireland, March-April 2016
 - Syed Muzahir Abbas, "Novel Antenna Solutions for Body Area Networks", from Macquarie University, Australia, March-April 2015.
 - Jie Dong, "Radio Channel Modelling and Characterisation for Cooperative Body Area Networks", from Australian National University and NICTA, Australia, June 2013.
 - Muzammil Jusoh, "Reconfigurable Microstrip Patch Antennas for Smart WLAN Applications", from University of Malaysia Perlis/University of Technology Malaysia, Malaysia, February 2013 to May 2013.
 - Alice Buffi, "Numerical Investigation on Surface Wave Propagation in Body Area Networks", from University of Pisa, Italy, June 2011 to December 2011.
 - John Diskin, "Ultra-Wideband Radio Channel Modelling and Characterisation for Indoor Environments", from Dublin City University (DCU), Dublin, Ireland, 29 April - 2 May 2008.

Administrative Duties

- Senior tutor for postgraduate students and chair of postgraduate Student Staff Liaison Committee (SSLC)
- Founding and active member of Queen Mary, University of London, ESET (Enhancing Students' Employability Taskforce)
- Industry Strategy Coordinator for School of Electronic Engineering and Computer Science
- **UCAS** undergraduate applications, interviews, welcome and departmental talks and clearing.
- **Outreach** programmes and talks to local and national schools for science and engineering.
- QMUL College **Open Day for Science and Engineering** (Presenter).
- **Antennas** Research Group **publicity and website** activities and organisation.
- General administrative activities related to teaching responsibilities and students' issues.

Teaching Duties

- **Co-founded the MEng Robotics Engineering degree programme across two schools since September 2018.**
- European School of Antennas, mainly for postgraduate, PhDs and industrial participants across EU and the world (60+, Organiser/Lecturer, 2011 – present)
- ECS645U Microwave and Millimetre-wave Communication Systems (15 students, Lecturer, 2015-Present)
- ECS404U/ECS430U Computer Systems and Network (365 students, Lecturer, 2015 – Present)
- ECS514U Design and Build Project for Electronic Engineering (40 students, Organiser, 2014-Present)
- ECS626U Team Project for MEng – (15 students, Organiser, 2014 – present)
- ECS511U Creating Interactive Objects – (20 students, Organiser/Lecturer, 2013 – present)
- EBU6569 Microwave Electronics (250 students, Lecturer, 2013 – 2014, taught in Beijing as part of the Joint Programme with BUPT, China)
- ELE335 Digital Systems Design (60 students, Organiser/Lecturer, 2007 – 2013)
- ECS606U Communication Systems Electronics (50 students, Organiser/Lecturer, 2011 – 2014)
- ELE794 Advanced Electrical and Electronic Studies (16 students, Organiser/Lecturer, 2008 – 2012)
- ELE596 Group Project for MEng (15 students, Organiser, 2007 – 2011)
- EBU4202 Digital Circuit Design (400 students, Lecturer, 2007–2011, **taught as part of the award winning Joint Programme with Beijing University of Posts and Telecommunications**)
- Guest lecturer for *ECS402U Professional and Research Themes* in EECS (2012)
- Undergraduate and postgraduate project and dissertation supervisor (Successfully advised over 40 students to date, 2007 – present)

Technical Skills

Programming languages : C/C++ and general logic theories for programming.

Protocols and technologies: TCP/IP, BroadBand ATM, UDP, HTML, GSM/UMTS (3G Mobile Communications)

Operating systems: Win98/95, Windows Professional/Vista, Linux (“Mandrake 7.2”) and iOS.

Packages: Microsoft Office 97-2007 (Word, Excel and PowerPoint), LATEX, HP/ADS (Antenna & Microwave circuits Design), Xilinx (Digital System Design), MATHCAD/MATLAB, Personal Computer Aided Antenna Design (PCAAD), High Frequency Structure Simulator (HFSS), Microwave Studio CST, FEKO, REMCOM XFDTD and Wireless Insight, LABVIEW for general control software design

Publications

Dr Alomainy has over 300 publications in international conferences, leading journals and book chapters (h-index: 35 and i10-index: 108 with 6500+). Check the Google Scholar page at <https://goo.gl/rZgFHS>

Books and Book Chapters

1. Akram Alomainy, Ke Yang, Muhammad A. Imran, Xin-Wei Yao, Qammer H. Abbasi (eds.), **"Nano-Electromagnetic Communication at Terahertz and Optical Frequencies: Principles**

- and Applications**", The Institute of Engineering and technology (IET), November 2019. ISBN-10: 1-78561-903-9 and ISBN-13: 978-1-78561-903-8
2. Qammer H. Abbasi, Masood Ur Rehman, Khalid Qaraqe and Akram Alomainy (eds.), **"Advances in Body-Centric Wireless Communication: Applications and State-of-the-art"**, The Institute of Engineering and technology (IET), July 2016. ISBN: 978-1-84919-989-6
 3. Tamer Aboufoul and Akram Alomainy, "Compact and Efficient Reconfigurable Antennas for Flexible Radio Front-end in Cognitive Radio Systems", Chapter in Handbook of Research on Software-Defined and Cognitive Radio Technologies for Dynamic Spectrum Management, IGI Global, October 2014. ISBN: 9781466665712 and DOI: 10.4018/978-1-4666-6571-2
 4. Akram Alomainy, Raffaele Di Bari, Qammer H. Abbasi, Yifan Chen, **"Cooperative and Energy Efficient Body Area and Wireless Sensor Networks for Healthcare Monitoring Applications: From Antenna Designs to Vital Data Monitoring Systems"**, reference book as part of the 'Academic Press Library of Biomedical Applications in Mobile and Wireless Communications' by Elsevier (mid 2014).
 5. Qammer H. Abbasi, Akram Alomainy, Yang Hao, "Ultra Wideband Antenna Diversity Techniques for Enhancing Performance of Body-Worn Wireless Sensor Networks", Chapter in Ultra-Wideband and 60 GHz Communications for Biomedical Applications, 2014 by Springer Publications, New York. ISBN: 978-1-4614-8895-8 (Print) 978-1-4614-8896-5 (Online).
 6. Alomainy, Qammer H. Abbasi, Istan Kovacs, Yang Hao, Peter Hall, et al., "Ultra Wideband Technology for Body-Centric Wireless Communications ", Chapter 5 in 2nd Edition, Antennas and Propagation for Body-Centric Wireless Networks, June 2012, ISBN-10:1608073769.
 7. Alomainy, Y. Hao and W. F. Pasveer, "Antennas for Wearable Devices", Chapter 6 in Antennas for Portable Devices, March 2007, Wiley & Sons, Inc., ISBN-10:0470030739
 8. Alomainy et al. (Co-author), "Antennas and Propagation for On-Body Communication at Microwave Frequencies", Chapter 3 in Antennas and Propagation for Body-Centric Wireless Networks, September 2006, Artech House, ISBN-10: 1580534937.
 9. Y. Hao, A. Alomainy and Y. Zhao, "Antenna design & propagation measurements and modelling for UWB wireless BAN," Chapter 16 in Ultra Wideband: Antennas and Propagation for Communications, Radar and Imaging, October 2006, Wiley & Sons, Inc., ISBN-10: 0470032553.

Journal Papers

1. A. Rizwan, A. Zoha, I. Ben Mabrouk, H. Sabbour, A. S. Al-Sumaiti, A. Alomaniy, M. A. Imran and Q. H. Abbasi, "A Review on the State of the Art in Atrial Fibrillation Detection Enabled by Machine Learning" IEEE Reviews in Biomedical Engineering (Accepted December 2019).
2. A. Zahid, H. T. Abbas, A. Ren, A. Zoha, H. Heidari, S. A. Shah, M. A. Imran, A. Alomainy, Q. H. Abbasi, "Machine Learning Driven Non-Invasive Approach of Water Content Estimation in Living Plant Leaves Using Terahertz Waves" Plant Methods (Accepted November 2019).
3. R. Bharadwaj, S. Swaisaenyakorn, C. G. Parini, J. C. Batchelor, S. K. Koul and A. Alomainy, "UWB Channel Characterization for Compact L-Shape Configurations for Body-Centric Positioning Applications", IEEE AWPL (Accepted November 2019).
4. A Zahid, A Ren, A Zoha, M A Imran, A Alomainy, Q H Abbasi, "Machine Learning Driven Approach Towards the Quality Assessment of Fresh Fruits Using Non-invasive Sensing", IEEE Sensors Journal (Accepted October 2019).
5. M. Vadai, A. Alomainy, H. Damerou, S. Gilardonj, M. Giovannozzi and A. Huschauer, "Barrier bucket and transversely split beams for loss-free multi-turn extraction in synchrotrons", European Physical Society (Accepted September 2019).

6. M. M. Bait-Suwailam, A. Alomainy, "Flexible Analytical Curve-Based Dual-Band Antenna for Wireless Body Area Networks", *Progress in Electromagnetics Research, PIER M* (Accepted August 2019).
7. A. Zahid, H. T. Abbas, M. A. Imran, K. Qaraqe, A. Alomainy, D. R. S. Cumming, Q. H. Abbasi, "Characterization and Water Content Estimation Method of Living Plant Leaves Using Terahertz Waves", *MDPI Applied Sciences, Special Issue on Terahertz Communications Present and Future* (Accepted July 2019).
8. R. Zhang, K. Yang, B. Yang, N. A. AbuAli, M. Hayajneh, M. P. Philpott, Q. Abbasi, A. Alomainy, "Dielectric and Double Debye Parameters of Artificial Normal Skin and Melanoma", *Journal of Infrared, Millimeter, and Terahertz Waves* (Accepted April 2019).
9. S. F. Jilani, O. Falade, T. Wildsmith, P. Reip, A. Alomainy, "A 60-GHz Ultra-thin and Flexible Metasurface for Frequency-Selective Wireless Applications", *Appl. Sci.* 2019, 9(5), 945; <https://doi.org/10.3390/app9050945>.
10. R. Bharadwaj, C. Parini, S. K. Koul, and A. Alomainy, "Effect of Limb Movements on Compact UWB Wearable Antenna Radiation Performance for Healthcare Monitoring," *Progress In Electromagnetics Research C*, Vol. 91, 15-26, 2019.
11. A. Ren, A. Zahid, X. Yang, M. A. Imran, A. Alomainy, Q. H. Abbasi, "State-of-the-Art in Terahertz Sensing for Food and Water Security – A Comprehensive Review", *Trends in Food Science & Technology*, Elsevier, Volume 85, March 2019, Pages 241-251.
12. X. Yang, D. Fan, A. Ren, N. Zhao, S. A. Shah, M. U. Rehman, A. Alomainy and Q. H. Abbasi, "Diagnosis of the Hypopnea Syndrome in the Early Stage", *Neural Computing and Applications*, Springer (2019), <https://doi.org/10.1007>.
13. A. Sharif, J. Ouyang, F. Yang, H. Chattha, A. Alomainy, M. A. Imran, Q. H. Abbasi, "Low-cost, Inkjet-printed UHF RFID Tag based system for Internet of Things Applications using Characteristic Modes", *IEEE Internet of Things Journal* (2019), doi: 10.1109/JIOT.2019.2893677
14. S. F. Jilani, M. O. Munoz, Q. H. Abbasi, A. Alomainy, "Millimeter-Wave Liquid Crystal Polymer Based Conformal Antenna Array for 5G Applications", *IEEE Antennas and Wireless Propagation Letters*, vol. 18, no. 1, pp. 84-88, Jan. 2019.
15. A. Rahimian, Q. H. Abbasi, A. Alomainy, Y. Alfadhl, "A Low-Profile 28-GHz Rotman Lens-Fed Array Beamformer for 5G Conformal Subsystems", *Microw Opt Technol Lett.* 2019; 61: 671–675.
16. M. O. Iqbal, M. M. Ur Rahman, M. A. Imran, A. Alomainy, Q. H. Abbasi, "Modulation Mode Detection & Classification for in-Vivo Nano-Scale Communication Systems Operating in Terahertz Band", *IEEE Transactions on NanoBioscience*, vol. 18, no. 1, pp. 10-17, Jan. 2019.
17. M. Ilyas, O. N. Ucan, O. Bayat, A. A. Nasir, M. A. Imran, A. Alomainy, Q. H. Abbasi, "Evaluation of Ultra-wideband In-vivo Radio Channel and Its Effect on System Performance", *Trans Emerging Tel Tech.* 2019;30:e3530.
18. A. Y.I. Ashyap, Z. Z. Abidin, S. H. Dahlan, H. A. Majid¹, M. R. Kamarudin, A. Alomainy, Raed A. Abd-Alhameed, Jamal Kosha, James M Noras, "Highly Efficient Wearable CPW Antenna Enabled By EBG-FSS Structure for Medical Body Area Network Applications", *IEEE Access*, vol. 6, pp. 77529-77541, 2018.
19. O. Falade, S. F. Jilani, A. Abshir, K. Rajab, A. Alomainy, "Design and characterisation of a screen-printed millimetre-wave flexible metasurface using copper ink for communication applications", *Flexible and Printed Electronics*, IOP Science, Volume 3, Number 4, December 2018.
20. P. Leelatien, K. Ito, K. Saito, M. Sharma and A. Alomainy, "Numerical Channel Characterizations for Liver-Implanted Communications Considering Different Human Subjects", *IEEE Transactions on Communications*, Article ID 2018EBP3050, October 2018.

21. S. F. Jilani, A. Rahimian, Y. Alfadhl and A. Alomainy, "Low-profile Flexible Frequency-reconfigurable Millimetre-wave Antenna for 5G Applications", *Flexible and Printed Electronics*, IOP Science, Volume 3, Number 3, August, 2018.
22. N. AbuAli, S. Aleyadeh, F. Djebbar, A. Alomainy, M. Almaazmi and S. A. Ghaithi, "Performance Evaluation of Routing Protocols in Electromagnetic Nanonetworks", *IEEE Access*, vol. 6, pp. 35908-35914, 2018.
23. R. Bharadwaj, S. Swaisaenyakorn, J. Batchelor, S. K. Koul and A. Alomainy, "Base-stations Random Placement Effect on the Accuracy of Ultra Wideband Body-centric Localization Applications", *IEEE Antennas and Wireless Propagation Letters*, vol. 17, no. 7, pp. 1319-1323, July 2018.
24. X. Yang, S. A. Shah, A. Ren, N. Zhao, J. Zhao, F. Hu, Zhang, Zhiya; W. Zhao, M Ur Rehman, A. Alomainy, "Monitoring of Patients Suffering from REM Sleep Behavior Disorder", *IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology*, vol. 2, no. 2, pp. 138-143, June 2018.
25. R. Zhang, K. Yang, Q. H. Abbasi, N. AbuAli and A. Alomainy, "Impact of Cell Density and Collagen Concentration on the Electromagnetic Properties of Dermal Equivalents in the Terahertz Band", *IEEE Transactions on Terahertz Science and Technology*, vol. 8, no. 4, pp. 381-389, July 2018.
26. P. Leelatien, K. Ito, K. Saito, M. Sharma and A. Alomainy, "Channel Characteristics and Wireless Telemetry Performance of Transplanted Organ Monitoring System Using Ultra-wideband Communication", *IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology*, vol. 2, no. 2, pp. 94-101, June 2018.
27. S. F. Jilani Z. U. Khan, T. H. Loh, Q. H. Abbasi and A. Alomainy, "A Ka-band Antenna based on an Enhanced Franklin Model for 5G Cellular Networks", *Microw Opt Technol Lett.* 2018;60:1562–1566.
28. S. F. Jilani and A. Alomainy, "Millimetre-wave T-shaped MIMO antenna with defected ground structures for 5G cellular networks", *IET Microwaves, Antennas & Propagation*, vol. 12, no. 5, pp. 672-677, 18 4 2018.
29. Q. Cheng, A. Alomainy and Y. Hao, "Near-Field Millimeter-Wave Phased Array Imaging with Compressive Sensing", *IEEE Access*, vol. 5, pp. 18975-18986, 2017.
30. A. Rahimian, Y. Alfadhl, and A. Alomainy, "Design and Performance Analysis of Millimetre-Wave Rotman Lens-Based Array Beamforming Networks for Large-Scale Antenna Subsystems", *Progress In Electromagnetics Research C*, Vol. 78, 159-171, 2017.
31. S. F. Jilani and A. Alomainy, "A Multiband Millimeter-Wave Two-Dimensional Array Based on Enhanced Franklin Antenna for 5G Wireless Systems", *IEEE Antennas and Wireless Propagation Letters* (Accepted September 2017).
32. R. Bharadwaj, S. Swaisaenyakorn, C. G. Parini, J. Batchelor and A. Alomainy, "Impulse Radio-Ultra Wideband Communications for Localisation and Tracking of Human Body and Limbs Movement for Healthcare Applications", *IEEE Transactions on Antennas and Propagation* (Accepted September 2017).
33. M. Sharma, C. G. Parini, A. Alomainy, "Enhanced 3D Localization Accuracy of Body mounted Miniature Antennas using Ultra Wideband Technology" *IET Microwaves, Antennas & Propagation* (Accepted July 2017).
34. Adel Y.I. Ashyap, Z. Z. Abidin, S. H. Dahlan, H. A. Majid, S.M. Shah, Muhammad R. Kamarudin, Akram Alomainy, "Compact and Low-profile Textile EBG-based Antenna for Wearable Medical Applications" *IEEE Antennas and Wireless Propagation Letters* (Accepted July 2017).
35. R. Zhang, K. Yang, Q. H. Abbasi, K. Qaraqe and A. Alomainy. "Analytical Characterisation of the Terahertz In-vivo Nano-network in the Presence of Interference based on TS-OOK Communication Scheme", *IEEE Access* (Accepted May 2017).

36. Q. Abbasi, N. Chopra, M. Rahman, K. Qaraqe and A. Alomainy. "Physical Layer Authentication in Nano Networks at Terahertz Frequencies for Biomedical Applications", *IEEE Access* (Accepted April 2017).
37. S. Singh, S. Singh, N. Badraoui, T. Berceci, A. Alomainy, "Design and analysis of all-optical up-and down-wavelength converter based on FWM of SOA-MZI for 60 Gbps RZ data signal" *Photonic Network Communications*, 1-10, 07 Apr 2017.
38. R. Zhang, K. Yang, Q. H. Abbasi, K. Qaraqe and A. Alomainy. "Analytical Modelling of the Effect of Noise on the Terahertz In-vivo Communication Channel for Body-centric Nano-networks", *Elsevier Nano Communication Networks* (Accepted April 2017).
39. K. Yang, N. Chopra, Q. H. Abbasi, K. Qaraqe and A. Alomainy. "Collagen Analysis at Terahertz Band using Double-Debye Parameter Extraction and Particle Swarm Optimisation", *IEEE Access* (Accepted February 2017).
40. Q. H. Abbasi, A. A. Nasir, K. Yang, K. Qaraqe and A. Alomainy. "Cooperative In-Vivo Nano-Network Communication at Terahertz Frequencies", *IEEE Access* (Accepted February 2017).
41. M. Fang, A. Ren, Z. Zhang, X. Yang, Q. H. Abbasi, K. Qaraqe, A. Alomainy, K. Mehran, Y. Hao, "Reverse Recognition of Body Postures Using On-body Radio Channel Characteristics", *IET Microwaves, Antennas and Propagation* (Accepted January 2017).
42. Q. Cheng, A Alomainy, Y. Hao, "Compressive Millimeter-wave Phased Array Imaging", *IEEE Access* (Accepted, November 2016)
43. A Rahimian, Y Alfadhil, and A Alomainy, "Analytical and Numerical Evaluations of Flexible V-Band Rotman Lens Beamforming Network Performance for Conformal Wireless Subsystems", *Progress In Electromagnetics Research B*, Vol. 71, 77–89, 2016
44. A. F. Demir, Z. E. Ankarali, Q. H. Abbasi, A. Alomainy, K. Qaraqe, E. Serpedin, H. Arslan, "Anatomical Region-Specific In Vivo Wireless Communication Channel Characterization", *IEEE Journal on Biomedical and Health Informatics* (Accepted, October 2016)
45. N. Chopra, K. Yang, Q. H. Abbasi, K. Qaraqe, M. Philpott and A. Alomainy, "THz Time Domain Spectroscopy of Human Skin Tissue for In-Body Nano-networks", *IEEE Transactions on THz Science and Technology* (Accepted, July 2016)
46. N. Chopra, K. Yang, J. Upton, Q. H. Abbasi, K. Qaraqe, M. Philpott and A. Alomainy, "Fibroblasts Cell Number Density based Human Skin Characterization at THz for In-body Nanonetworks", *Elsevier Nano Communication Networks* (Accepted, July 2016)
47. N. Zhao, A. Ren, F. Hu, Z. Zhang, M. Ur Rehman, T. Zhu, X. Yang, A. Alomainy, "Double Threshold Authentication Using Body Area Radio Channel Characteristics", *IEEE Communications Letters* (Published online August 2016)
48. Q. H. Abbasi, K. Yang, N. Chopra, J. M. Jornet, N. A. AbuAli, K. Qaraqe, and A. Alomainy, "Nano-communication for Biomedical Applications: A Review on the State-of-the-art from Physical Layers to Novel Networking Concepts", *IEEE Access* (Accepted, July 2016)
49. Q. H. Abbasi, H. El Sallabi, N. Chopra, K. Yang, K. Qaraqe, and A. Alomainy, "Terahertz Channel Characterisation Inside the Human Skin for Nano-scale Body-Centric Networks", *IEEE Transactions on THz Science and Technology* (Accepted, March 2016)
50. Q. Cheng, A. Alomainy, and Y. Hao, "On the Performance of Compressed Sensing-based Methods for Millimeter-wave Holographic Imaging", *Applied Optics*, 2016 Feb 1;55(4):728-38. doi: 10.1364/AO.55.000728.
51. R. Bharadwaj, C. G. Parini, and A. Alomainy, "Analytical and Experimental Investigations on Ultra Wideband Pulse Width and Shape Effect on the Accuracy of 3D Localisation", *IEEE Antennas and Wireless Propagation Letters*, vol. 15, pp. 1116-1119, 2016.
52. K. Yang, N. Chopra, M. Munoz, Q. H. Abbasi, Y. Hao and A. Alomainy, "Effects of Non-flat Interfaces in Human Skin Tissues on the In-Vivo Tera-Hertz Communication Channel", *Elsevier Nano Communication Networks*, available online 3 November 2015, doi:10.1016/j.nancom.2015.09.001.

53. R. Bharadwaj, C. G. Parini and A. Alomainy, "Experimental Investigation of 3D Human Body Localisation Using Wearable Ultra Wideband Antennas", *IEEE Transactions on Antennas and Propagation* vol. 63, no. 11, pp. 5035-5044, Nov. 2015.
54. X. Yang, A. Ren, Z. Zhang, M. Ur-Rehman, Q. H. Abbasi and A. Alomainy, "Towards Sparse Characterization of On-body Ultra-wideband Wireless Channels", *IET Healthcare Technology Letters*, Volume 2, Issue 3, June 2015, p. 74 – 77
55. C. C. Y. Poon, B. P. L. Lo, M. R. Yuce, Akram Alomainy and Yang Hao, "Body Sensor Networks: In the Era of Big Data and Beyond", *IEEE Reviews in Biomedical Engineering*, vol. 8, no. , pp. 4-16, 2015
56. K. Yang, A. Pellegrini, M. Munoz, A. Brizzi, A. Alomainy and Y. Hao, "Numerical Analysis and Characterisation of THz Propagation Channel for Body-Centric Nano-Communications", *IEEE Transactions on THz Science and Technology*, vol. 5, no. 3, pp. 419-426, May 2015.
57. Y. Chen, Q. Zhang, P. S. Anwar, L. Huang and A. Alomainy, "Characterizing Physically Transient Antennas", *IEEE Transactions on Antennas and Propagation*, vol. 63, no. 6, pp. 2421-2429, June 2015.
58. G. Piro, K. Yang, G. Boggia, N. Chopra, L. A. Grieco, Yang Hao and A. Alomainy, "Terahertz Communications in Human Tissues at the Nano-scale for Healthcare Applications", *IEEE Transactions on Nanotechnology*, vol. 14, no. 3, pp. 404-406, May 2015.
59. M. Sharma, A. Alomainy and C. G. Parini, "Fidelity Pattern Analysis of a CPW-Fed Miniature UWB Antenna Using Different Excitation Pulses", *IEEE Antennas and Wireless Propagation Letters*, Vol. 14, October 2014, pp. 494–498.
60. Khaleda Ali, Alessio Brizzi, Su-Lin Lee, Guang-Zhong Yang, Akram Alomainy and Yang Hao, "Quantitative Analysis of the Subject-specific On-body Propagation Channel Based on Statistically Created Models", *IEEE Antennas and Wireless Propagation Letters*, Vol. 14, October 2014, pp. 398–401.
61. Tamer Aboufoul, Xiaodong Chen, Clive G. Parini, Akram Alomainy, "Multiple-parameter reconfiguration in a single planar ultra-wideband antenna for advanced wireless communication systems", *IET Microwaves, Antennas & Propagation*, Vol. 8, Issue 11, August 2014, pp.849–857.
62. Xiaodong Yang, Shuyuan Yang, Qammer Hussain Abbasi, Zhiya Zhang, Aifeng Ren, Wei Zhao and Akram Alomainy, "Sparsity-inspired Non-parametric Probability Characterization for Radio Propagation in Body Area Networks", *IEEE Journal of Biomedical and Health Informatics*, DOI:10.1109/JBHI.2014.2334714, July 2014.
63. Q. H. Abbasi, M. Ur Rehman, A. Alomainy, Y. Hao, "Ultra-Wideband Antenna Diversity Characterisation for Off-Body Communications in an Indoor Environment", *IET Microwaves, Antennas & Propagation*, Vol. 8, Issue 11, July 2014, DOI:10.1049/iet-map.2013.0370.
64. M Jusoh, T Aboufoul, T Sabapathy, A Alomainy, MR Kamarudin, "Pattern Reconfigurable Microstrip Patch Antenna with Multi-directional Beam for WiMAX Application", *IEEE Antennas and Wireless Propagation Letters*, Vol. 13, April 2014, pp.860–863.
65. R. Bharadwaj, S. Swaisaenyakorn, C. G. Parini, J. Batchelor and A. Alomainy, "Localisation of Wearable Ultra Wideband Antennas for Motion Capture Applications", *IEEE Antennas and Wireless Propagation Letters*, Vol. 13, March 2014, pp.507–510.
66. M. Qaraqe, Q. H. Abbasi, E. Serpedin and A. Alomainy, "Experimental Evaluation of MIMO Capacity for Ultra Wideband Body-Centric Wireless Propagation Channels", *IEEE Antennas and Wireless Propagation Letters*, 2014. (Minor revision)
67. Q. H. Abbasi, M. Rehman, C. G. Parini and Akram Alomainy, "Ultra Wideband Antenna Diversity Characterisation for Off-Body Communications in an Indoor Environment", *IET Microwaves, Antennas & Propagation*, 2014. (Minor revision)
68. R. Bharadwaj, S. Swaisaenyakorn, C. G. Parini, J. Batchelor and A. Alomainy, "Localisation of Wearable Ultra Wideband Antennas for Motion Capture Applications", *IEEE Antennas and Wireless Propagation Letters*, 2014. (Minor revision)

69. Richa Bharadwaj, Clive G. Parini and Akram Alomainy, "Ultra Wideband Based 3D Localisation Using Compact Base Station Configurations", *IEEE Antennas and Wireless Propagation Letters*, 2014. (Accepted)
70. Q. H. Abbasi, M. Ur Rehman, X. Yang, Erchin Serpedin and Akram Alomainy, "Ultra Wideband Band-notched Flexible Antenna for Wearable Applications", *IEEE Antennas and Wireless Propagation Letters*, 2014. (Accepted)
71. T. Aboufoul, C. G. Parini, X. Chen and A. Alomainy, "Pattern-Reconfigurable Planar Circular Ultra-Wideband Monopole Antenna", *IEEE Transactions on Antennas and Propagation*, Vol. 61, Issue 10, 4973-4980.
72. MM Khan, QH Abbasi, A Alomainy, Y Hao, C Parini, "Experimental characterisation of ultra-wideband off-body radio channels considering antenna effects", *IET Microwaves, Antennas and Propagation*, Vol. 7, Issue 5, June 2013.
73. T Aboufoul, A Alomainy, C Parini, "Polarization reconfigurable ultra wideband antenna for cognitive radio applications", *Microwave and Optical Technology Letters* 55 (3), 2013, pp.501–506.
74. R Di Bari, QH Abbasi, A Alomainy, Y Hao, "An Advanced UWB Channel Model for Body-Centric Wireless Networks", *Progress In Electromagnetics Research* 136, 2013, 79–99. (2013)
75. QH Abbasi, MM Khan, S Liaqat, M Kamran, A Alomainy, Y Hao, "Experimental investigation of ultra wideband diversity techniques for on-body radio communications", *Progress In Electromagnetics Research C* 34, 2013, 165–181. (2013)
76. T Aboufoul, A Alomainy, C Parini, "Reconfigured and notched tapered slot UWB antenna for cognitive radio applications", *International Journal of Antennas and Propagation*, Volume 2012 (2012), Article ID 160219.
77. M. M. Khan, Q. H. Abbasi, A. Alomainy and Y. Hao, " Performance of Ultra wideband Wireless Tags for On-Body Radio Channel Characterisation", *International Journal of Antennas and Propagation*, Article number ARTN 232564, 2012.
78. T. Aboufoul, A. Alomainy, "Reconfigurable UWB Antenna for Cognitive Radio Applications Using GaAs FET Switches", *IEEE Antennas and Wireless Propagation Letters*, Vol. 11:392–394 2012.
79. Q. H. Abbasi, A. Sani, A. Alomainy and Y. Hao, "Numerical Characterisation and Modelling of Subject-Specific Ultra Wideband Body-Centric Radio Channels and Systems for Healthcare Applications", *IEEE Transaction on Information and Technology in Biomedicine*, 16(2):221–227 05 Mar 2012.
80. Q. H. Abbasi, A. Sani, A. Alomainy and Y. Hao, "Experimental Characterisation and Statistical Analysis of the Pseudo-Dynamic Ultra Wideband On-Body Radio Channel", *IEEE Antenna and Wireless Propagation letter*, Volume 10, pp. 748–751, August 2011.
81. X. D. Yang, Q. H. Abbasi, A. Alomainy and Y. Hao, "Spatial Correlation Analysis of On-Body Radio Channels Considering Statistical Significance ", *IEEE Antenna and Wireless Propagation letter*, Volume 10, pp. 780–783, August 2011.
82. Q. H. Abbasi, A. Alomainy, Y. Hao, "Characterisation of MB-OFDM based Ultra Wideband Systems for Body-Centric Wireless Communications ", *IEEE Antenna and Wireless Propagation letter*, Volume 9, pp. 324–327, Dec. 2011
83. Q. Abbasi, A. Sani, A. Alomainy and Y. Hao, "Ultra Wideband On-Body Radio Channel Characterisation and System-Level Modelling for Multiband OFDM Body-Centric Wireless Network", *IEEE Transactions on Microwave Theory and Techniques*, Vol. 58, no. 12, pp. 3485–3492, December 2010.
84. Andrea Sani, Akram Alomainy and Yang Hao, "Numerical Characterization and Link Budget Evaluation of Wireless Implants Considering Different Digital Human Phantoms", *IEEE Transactions on Microwave Techniques and Theory, Biomedical Special Issue*, Vol. 57, Issue 10 (Part 2), pp. 2605–2613.

85. A. Sani, A. Alomainy, G. Palikaras, Y. Nechayev, Y. Hao, C. G. Parini, P. S. Hall, "Experimental Characterization of UWB On–Body Radio Channel in Indoor Environment Considering Different Antennas", *IEEE Transactions on Antennas and Propagation*, Vol. 57, Issue 10 (Part 2).
86. A. Sani, Y. Zhao, A. Alomainy, Y. Hao and C. G. Parini, "An Efficient FDTD Algorithm Based on Equivalence Principle for Analyzing On–Body Antenna Performance", *IEEE Transactions on Antennas and Propagation, Special Issue on Body–Centric Wireless Networks*, Vol. 57, Issue 4, Part 1, April 2009, pp. 1006–1014.
87. A. Alomainy and Y. Hao, "Modelling and Characterisation of Biotelemetric Radio Channel from Ingested Implants Considering Organ Contents", *IEEE Transactions on Antennas and Propagation, Special Issue on Body–Centric Wireless Networks*, 2009, Vol. 57, Issue 4, Part 1, April 2009, pp. 999–1005.
88. A. Alomainy, A. Sani, A. Rahman, J. Santas and Y. Hao, "Transient Characteristics of Wearable Antennas and Radio Propagation Channels for Ultra Wideband Body–Centric Wireless Communications", *IEEE Transactions on Antennas and Propagation, Special Issue on Body–Centric Wireless Networks*, Vol. 57, Issue 4, Part 1, April 2009, pp. 875–884.
89. A. Alomainy, Y. Hao and W. F. Pasveer, "Numerical and Experimental Evaluation of a Compact Sensor Antenna Performance for Healthcare Devices", *IEEE Transactions on Biomedical Circuits and Systems*, Vol. 1 No. 4, December 2008.
90. Peter S. Hall, Yang Hao, Yuriy I. Nechayev, Akram Alomainy, Costas C. Constantinou, Clive Parini, Muhammad R Kamarudin, Tareq Z. Salim, David T. M. Hee, Rostyslav Dubrovka, Abdus S. Owadally, Wei Song, Andrea Serra, Paolo Nepa and Michele Gallo, "Antennas and Propagation for On–Body Communication Systems", *IEEE Antenna and Propagation Magazine*, 49 (3): 41–58 June 2007.
91. Akram Alomainy, Yang Hao, Abdus Owadally, Clive Parini, Yuri Nechayev, Peter Hall and Costas C. Constantinou, "Statistical Analysis and Performance Evaluation for On–body Radio Propagation with Microstrip Patch Antennas", *IEEE Transactions on Antennas and Propagation*, Vol. 55, Issue 1, January 2007, pp. 245–248.
92. P. Belov, Y. Zhao, S. Sudhakaran, A. Alomainy, and Y. Hao, "Experimental study of the sub-wavelength imaging by a wire medium slab," *Applied Physics Letters*, vol. 89, 262109, 2006.
93. R. Dubrovka, C. G. Parini, Y. Hao, A. Alomainy, P. Hall, C. Constantinou, Y. Nechayev, "On–body propagation loss estimation using method of equivalent sources", *IEE Electronic Letters*, Vol. 42, Issue 9, 27 April 2006, pp. 11–12
94. Y. Zhao, Y. Hao, A. Alomainy and C. G. Parini, "UWB On–Body Radio Channel Modelling Using Ray Theory and Sub–band FDTD Method", *IEEE Transactions on Microwave Theory and Techniques*, Special Issue on Ultra–Wideband, Vol. 54, Issue 4, Part 2, April 2006, pp. 1827–1835
95. A. Alomainy, Y. Hao, X. Hu, C. G. Parini and P. S. Hall, "UWB On–Body Radio Propagation and System Modelling for Wireless Body–Centric Networks", *IEE Proceedings Communications–Special Issue on Ultra Wideband Systems, Technologies and Applications*, Vol. 153, No. 1, February 2006.
96. A. Alomainy, Y. Hao, C. G. Parini and P. S. Hall, "Comparison between Two Different Antennas for UWB On–Body Propagation Measurements", *IEEE Antennas and Wireless Propagation Letters*, Vol. 4, Issue 1, December 2005, pp: 31–34.
97. Y. Hao, A. Alomainy and C. G. Parini, "Antenna Beam Shaping from Offset Defects in UC–EBG", *Microwave and Optical Technology Letters*, Vol. 43, Number 2, October 20 2004, pp: 108–112.

Conference Papers

1. Syeda F. Jilani, Qammer H. Abbasi and Akram Alomainy, "Inkjet-Printed Millimetre-Wave PET-Based Flexible Antenna for 5G Wireless Applications", the IEEE MTT-S International Microwave Workshop Series on 5G Hardware and System Technologies (IMWS-5G), Dublin, Ireland, 30 - 31 August 2018.
2. Zia U. Khan, Qammer H Abbasi, Angel Belenguier, Tian H. Loh and Akram Alomainy, "Empty Substrate Integrated Waveguide Slot Antenna Array for 5G Applications", the IEEE MTT-S International Microwave Workshop Series on 5G Hardware and System Technologies (IMWS-5G), Dublin, Ireland, 30 - 31 August 2018.
3. Rui Zhang, Qammer H. Abbasi, Najah A. AbuAli and Akram Alomainy, "Experimental Characterization Of Artificial Human Skin With Melanomas For Accurate Modelling And Detection In Healthcare Application", 2018 43rd International Conference on Infrared, Millimeter and Terahertz Waves (IRMMW THz-2018), Nagoya, Japan, 9-14 September 2018.
4. Syeda F. Jilani, Ahmed K. Aziz, Qammer H. Abbasi and Akram Alomainy, "Ka-band Flexible Koch Fractal Antenna with Defected Ground Structure for 5G Wearable and Conformal Applications", the 2018 IEEE 29th Annual International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC), Bologna, Italy September 9-12, 2018.
5. W. Li, J. Konstantinova, Y. Noh, A. Alomainy and K. Althoefer, "Camera-based Force and Tactile Sensor", 19th Towards Autonomous Robotic Systems (TAROS) Conference, July 2018, Bristol, UK.
6. Ahmed K. Aziz, Syeda Fizzah Jilani, Akram Alomainy and G. Khalid Z. Rajab, "High Sensitivity Inkjet-Printed Terahertz Metallic Hole Array Sensor", 2018 12th European Conference on Antennas and Propagation (EUCAP), London, 2018.
7. Z U Khan, S F Jilani, A. Belenguier, T H Loh, A Alomainy, "Empty Substrate Integrated Waveguide-Fed MMW Aperture-Coupled Patch Antenna for 5G Applications", 12th European Conference on Antennas and Propagation (EuCAP), April 2018, London, United Kingdom.
8. R. Zhang, K. Yang, Q. Abbasi, K. Qaraqe and A. Alomainy, "Impact of Fibroblast Cell Density on the Material Parameters of Thin Artificial Human Skin in the Terahertz Band", in EuCAP 2018, the 12th European Conference on Antennas and Propagation, London, UK, 9-13 Apr 2018.
9. Katrin Hänsel, Kleomenis Katevas, Guido Orgs, Daniel C. Richardson, Akram Alomainy, Hamed Haddadi, "The potential of wearable technology for monitoring social interactions based on interpersonal synchrony", In Proceedings of the 2017 Workshop on Wearable Systems and Applications (WearSys'18), June 10, 2018, Munich, Germany.
10. Katrin Hänsel, Romina Kettner, Hamed Haddadi, Akram Alomainy, Albrecht Schmidt, "What to Put on the User: Sensing Technologies for Studies and Physiology Aware Systems", In Proceedings of the 2018 ACM International Conference on Human Factors in Computing (CHI'18), April 21–26, 2018, Montreal, Canada.
11. R. Zhang, K. Yang, Q. Abbasi, K. Qaraqe and A. Alomainy, "Investigating the Impact of Fibroblast Cell Density on Optical Properties of Dermal Equivalents Using Terahertz Time Domain Spectroscopy", Progress In Electromagnetics Research Symposium (39th PIERS in Singapore), Singapore, 19-22 Nov 2017.
12. S. F. Jilani, A. Alomainy, "An inkjet-printed MMW frequency reconfigurable antenna on a flexible PET substrate for 5G wireless systems", Loughborough Antennas and Propagation Conference 2017 (LAPC 2017, IET), Loughborough, UK, 13-14 Nov 2017 (**Best Student Paper Finalist**)
13. S. F. Jilani, A. Alomainy, "Millimeter-Wave Conformal Antenna Array for 5G Wireless Applications", IEEE AP-S Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting, San Diego, CA, USA, 9-14 Jul 2017 (**Best Student Paper Finalist**)
14. P. Leelatien, K. Ito, A. Alomainy, Y. Hao, M. Sharma, "Wireless Telemetry Performance of Transplanted Organ Monitoring at Ultra Wideband Range Considering Respiration-Induced

- Organ Movement", IEEE AP-S Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting, San Diego, CA, USA, 9-14 Jul 2017 **(Invited)**
15. K. Yang, N. Chopra, Q. H. Abbasi, K. Qaraqe, and A. Alomainy, "Dielectric Constant Measurement of Collagen at Terahertz Band Using Terahertz Time Domain Spectroscopy", IEEE AP-S Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting, San Diego, CA, USA, 9-14 Jul 2017
 16. Katrin Hänsel, Hamed Haddadi, and Akram Alomainy. 2017, " Demo - AWSense: A Framework for Collecting Sensing Data from the Apple Watch", In Proceedings of the 15th Annual International Conference on Mobile Systems, Applications, and Services (MobiSys '17). ACM, New York, NY, USA, 188-188.
 17. P. Leelatien, K. Ito, K. Saito, A. Alomainy, M. Sharma and Y. Hao, "Radio telemetry performance of liver implanted ultra wideband antenna", 2017 11th European Conference on Antennas and Propagation (EUCAP), Paris, 2017, pp. 685-688. **(Invited)**
 18. A Rahimian, A Alomainy, Y Alfadhl, "A flexible printed millimetre-wave beamforming network for WiGig and 5G wireless subsystems", 2016 Loughborough Antennas & Propagation Conference (LAPC), November 2016.
 19. SF Jilani, A Alomainy, "Millimetre-wave T-shaped antenna with defected ground structures for 5G wireless networks", 2016 Loughborough Antennas & Propagation Conference (LAPC), November 2016.
 20. N Chopra, M Phipott, A Alomainy, QH Abbasi, K Qaraqe, RM Shubair, "THz Time Domain Characterization of Human Skin Tissue for Nano-electromagnetic Communication", 2016 16th Mediterranean Microwave Symposium (MMS), Abu Dhabi, UAE, November 2016.
 21. R Zhang, K Yang, A Alomainy, QH Abbasi, K Qaraqe, RM Shubair, "Modelling of the terahertz communication channel for in-vivo nano-networks in the presence of noise", 2016 16th Mediterranean Microwave Symposium (MMS), Abu Dhabi, UAE, November 2016.
 22. N Chopra, J Upton, M Philpott, A Alomainy, QH Abbasi, K Qaraqe, "Characterization of Volumetric Change in Collagen using THz Time Domain Spectroscopy for In-Body Nanonetworks", Proceedings of the 3rd ACM International Conference on Nanoscale Computing and Communication, New York, USA, September 2016.
 23. K Hänsel, A Alomainy, H Haddadi, "Large scale mood and stress self-assessments on a smartwatch", Proceedings of the 2016 ACM International Joint Conference on Pervasive and Ubiquitous Computing: Adjunct, Germany, September 2016.
 24. SF Jilani, B Greinke, Y Hao, A Alomainy, "Flexible millimetre-wave frequency reconfigurable antenna for wearable applications in 5G networks", 2016 URSI International Symposium on Electromagnetic Theory (EMTS), Finland, August 2016.
 25. H Elayan, RM Shubair, A Alomainy, K Yang, "In-vivo terahertz EM channel characterization for nano-communications in WBANs", 2016 IEEE International Symposium on Antennas and Propagation (APSURSI), USA, June 2016.
 26. Q Cheng, A Alomainy, Y Hao, "Resolution analysis of compressed sensing based methods for single frequency radar imaging", 2016 IEEE International Symposium on Antennas and Propagation (APSURSI), USA, June 2016.
 27. N Chopra, K Yang, Q Abbasi, K Qaraqe, M Philpott, A Alomainy, "Characterization of Human Skin Using THz Time Domain Spectroscopy for In-Body Nanonetworks", proceedings of the 9th EAI International Conference on Bio-inspired Information and Communications Technologies (formerly BIONETICS).
 28. QH Abbasi, H El Sallabi, E Serpedin, K Qaraqe, A Alomainy, Y Hao, "Ellipticity statistics of ultra wideband MIMO channels for body centric wireless communication", 2016 10th European Conference on Antennas and Propagation (EuCAP), April 2016, Davos, Switzerland.

29. A da Conceição Andrade, IP Fonseca, SF Jilani, A Alomainy, "Reconfigurable textile-based ultra-wideband antenna for wearable applications", 2016 10th European Conference on Antennas and Propagation (EuCAP), April 2016, Davos, Switzerland.
30. SF Jilani, A Alomainy, "Planar millimeter-wave antenna on low-cost flexible PET substrate for 5G applications", 2016 10th European Conference on Antennas and Propagation (EuCAP), April 2016, Davos, Switzerland.
31. K Yang, Y Hao, A Alomainy, QH Abbasi, K Qaraqe, "Channel modelling of human tissues at terahertz band", 2016 IEEE Wireless Communications and Networking Conference Workshops (WCNCW), April 2016, Doha, Qatar.
32. QH Abbasi, H El Sallabi, E Serpedin, K Qaraqe, A Alomainy, "Condition number variability of ultra wideband MIMO on body channels", 2016 International Workshop on Antenna Technology (iWAT), Feb/March 2016, Florida, USA.
33. Nishtha Chopra, Clive G. parini, Akram Alomainy, "Investigating Electromagnetic Material Properties of Collagen at THz for Health Monitoring Applications", 5th EAI International Conference on Wireless Mobile Communication and Healthcare - "Transforming healthcare through innovations in mobile and wireless technologies", 14-16 October 2015, London, UK.
34. Manmohan Sharma, Akram Alomainy, Mike Philpott, "UWB Sensor Nodes for Tracking of Human Motion in Medical and Rehabilitation Applications", 5th EAI International Conference on Wireless Mobile Communication and Healthcare - "Transforming healthcare through innovations in mobile and wireless technologies", 14-16 October 2015, London, UK.
35. Ke Yang, Akram Alomainy, Yang Hao, "Numerical Study of the Influence of within Human Skin Interfaces on THz Wave Propagation", 5th EAI International Conference on Wireless Mobile Communication and Healthcare - "Transforming healthcare through innovations in mobile and wireless technologies", 14-16 October 2015, London, UK.
36. Natalie Wilde, Hamed Haddadi, Akram Alomainy, "Future Feasibility of Using Wearable Interfaces to Provide Social Support", 5th EAI International Conference on Wireless Mobile Communication and Healthcare - "Transforming healthcare through innovations in mobile and wireless technologies", 14-16 October 2015, London, UK.
37. Qiao Cheng, Akram Alomainy, Yang Hao, "Effect of Antenna Directivity on the Accuracy of Fingerprint-based Localisation", 5th EAI International Conference on Wireless Mobile Communication and Healthcare - "Transforming healthcare through innovations in mobile and wireless technologies", 14-16 October 2015, London, UK.
38. Katrin Hänsel, Natalie Wilde, Hamed Haddadi, Akram Alomainy, "Challenges with Current Wearable Technology in Monitoring Health Data and Providing Positive Behavioural Support", 5th EAI International Conference on Wireless Mobile Communication and Healthcare - "Transforming healthcare through innovations in mobile and wireless technologies", 14-16 October 2015, London, UK.
39. Ke Yang, Nishtha Chopra, Jamie Upton, Yang Hao, Mike Philpott, Qammer Hussain Abbasi, Khalid Qaraqe, and Akram Alomainy, "Characterising Skin-Based Nano-Networks for Healthcare Monitoring Applications at THz" The 2015 IEEE AP-S Symposium on Antennas and Propagation and URSI CNC/USNC Joint Meeting, Vancouver, Canada, July 19-25, 2015. (Invited)
40. Yifan Chen, Qingfeng Zhang, Akram Alomainy, Putri Santi Anwar, Limin Huang, " Statistical Characterization of Physically Transient Antennas" The 2015 IEEE AP-S Symposium on Antennas and Propagation and URSI CNC/USNC Joint Meeting, Vancouver, Canada, July 19-25, 2015.
41. Qammer Hussain Abbasi, Erchin Serpedin, Khalid Qaraqe, Akram Alomainy, Yang Hao, " Multiband-OFDM based Ultra Wideband System Modelling of On/Off-Body Antenna Diversity" The 2015 IEEE AP-S Symposium on Antennas and Propagation and URSI CNC/USNC Joint Meeting, Vancouver, Canada, July 19-25, 2015.

42. Manmohan Sharma, Clive G. Parini, Akram Alomainy, " Influence of Antenna Alignment and Line-of-sight Obstruction on the Accuracy of Range Estimates Between a Pair of Miniature UWB Antennas" The 9th European Conference on Antennas and Propagation (EuCAP'15), Lisbon, Portugal, 12-17 April 2015. .
43. Manmohan Sharma, Clive G Parini, Akram Alomainy, "Investigative analysis of the influence of different simplified human body models on a miniature ultra-wideband antenna", 2014 IEEE MTT-S International Microwave Workshop Series on RF and Wireless Technologies for Biomedical and Healthcare Applications (IMWS-Bio), 8-10 December 2014, London, UK.
44. N Chopra, K Yang, J Upton, A Alomainy, M Philpott, Y Hao, "Understanding and characterizing nanonetworks for healthcare monitoring applications", 2014 IEEE MTT-S International Microwave Workshop Series on RF and Wireless Technologies for Biomedical and Healthcare Applications (IMWS-Bio), 8-10 December 2014, London, UK.
45. K Ali, A Brizzi, A Alomainy, Y Hao, "Numerical investigation on the dependence of on-body channel characteristics on anthropomorphic variation of human body", 2014 IEEE MTT-S International Microwave Workshop Series on RF and Wireless Technologies for Biomedical and Healthcare Applications (IMWS-Bio), 8-10 December 2014, London, UK.
46. Q Cheng, M Munoz, A Alomainy, Y Hao, "Compressive sensing applied to fingerprint-based localisation", 2014 IEEE MTT-S International Microwave Workshop Series on RF and Wireless Technologies for Biomedical and Healthcare Applications (IMWS-Bio), 8-10 December 2014, London, UK.
47. K Yang, N Chopra, Q Hussain Abbasi, K Qaraqe, A Alomainy, "Towards Efficient And Comprehensive Healthcare/medical Monitoring System: Nano-scale Body-centric Networks (nano-health)", Qatar Foundation Annual Research Conference, 23-24 November 2014, Doha, Qatar.
48. M Jusoh, AH Ismail, Muhammad Ramlee Kamarudin, Akram Alomainy, Mohd Waffy Nasrudin, T Sabapathy, "Multi-directional beam of patch antenna", 2014 2nd International Conference on Electronic Design (ICED).
49. X Yang, A Ren, S Yang, QH Abbasi, Z Zhang, W Zhao, A Alomainy, "On the sparse non-parametric model for body-centric ultra-wideband channel", General Assembly and Scientific Symposium (URSI GASS), 2014 XXXIth URSI
50. M Munoz, K Yang, A Alomainy, Y Hao, "Modelling of skin tissue for body-centric communications at terahertz frequencies", General Assembly and Scientific Symposium (URSI GASS), 2014 XXXIth URSI
51. M Sharma, CG Parini, A Alomainy, "Experimental investigation of 3D localisation of an on-body UWB antenna using several base stations", 2014 Loughborough Antennas and Propagation Conference (LAPC), 10-11 November 2014, Loughborough, UK, pp. 173-177.
52. R. Bharadwaj, S. Swaisaenyakorn, C. G. Parini, J. Batchelor and A. Alomainy, "Motion tracking of a human subject in healthcare applications using compact ultra wideband antennas", the 4th International Conference on Wireless Mobile Communication and Healthcare (MobiHealth 2014), November 3–5, 2014 Athens, Greece. (Invited)
53. K. Yang, Q.H. Abbasi, K. Qaraqe, A. Alomainy and Y. Hao, "Body-Centric Nano-Networks: EM Channel Characterisation in Water at the Terahertz Band", The 2014 Asia Pacific Microwave Conference (APMC 2014), 4 to 7 November 2014, Sendai, Japan. (Invited)
54. Hamed Haddadi, Akram Alomainy and Ian Brown, "Quantified Self and the Privacy Challenge in Wearables", the SCL Technology Law Futures Forum, the SCL IT Law COmmunity, 5th August 2014. URL: <http://www.scl.org/site.aspx?i=ed38111>.(Invited)
55. Manmohan Sharma, Clive G Parini, Akram Alomainy, "Investigation of TOA-Based Ranging Accuracy of a Miniature Ultra-Wideband Antenna for Human Motion Capture Applications", IEEE 2014 11th International Conference on Wearable and Implantable Body Sensor Networks (BSN), June 2014.

56. Marwa Qaraqe, Qammer H Abbasi, Akram Alomainy, Erchin Serpedin, "Experimental investigation of channel capacity and signal correlation in multi-element antennas for body-centric wireless networks", 2014 IEEE International Symposium on Medical Measurements and Applications (MeMeA), June 2014.
57. Qammer Hussain Abbasi, Marwa Qaraqe, Akram Alomainy and Erchin Serpedin, "Second Order Statistics of Ultra Wideband On-Body Diversity Channels", in Proceedings of IEEE Wireless Communications and Networking Conference (WCNC), 6-9 April, 2014.
58. Tamer Aboufoul and Akram Alomainy, "Reconfiguration of Ultra Wideband Antenna for Multi-band Operation in Cognitive Radio Application", The 8th European Conference on Antennas and Propagation (EuCAP 2014), The Hague, The Netherlands, 6-11 APRIL 2014.
59. Richa Bharadwaj, Clive Parini and Akram Alomainy, "Indoor Tracking of Human Movements Using UWB Technology for Motion Capture", The 8th European Conference on Antennas and Propagation (EuCAP 2014), The Hague, The Netherlands, 6-11 APRIL 2014.
60. Qammer H. Abbasi, Sidrah Liaqat and Akram Alomainy, "Time Domain Analysis of A Miniature Tapered-Slot UWB Antenna", The International Workshop on Antenna Technology (iWAT 2014), 4-6 March 2014, Sydney, Australia.
61. Mohammad Monirujjaman, Md Azizur Rahman, Akram Alomainy and Clive Parini, "Ultra Wideband On-Body Radio Propagation Channels for Different Real Human Test Subjects", 2nd International Conference on Advances in Electrical Engineering, 19-20 December 2013, Dhaka, Bangladesh. **(Awarded 1st Best Paper)**
62. R. Di bari, Qammer Hussain Abbasi and Akram Alomainy, "Wearable and Wireless Activities Aware Body-Centric ECG Network (WISER-ECG)", in Qatar Annual Research Conference (QARC), 23-24 Nov., 2013.
63. Qammer H. Abbasi, Liaqat Ali, Masood Ur Rehman, Sidrah Liaqat and Akram Alomainy, "Numerical Radio Propagation Characterisation for Ultra Wideband On-Body Communications", in Proceedings of IEEE International RF and Microwave Conference, 9-11 Dec., 2013.
64. Qammer H. Abbasi, Masood Ur Rehman, Sidrah Liaqat and Akram Alomainy, "MIMO Radio Channel Characterisation for Ultra Wideband Body Centric Wireless Communication", in Proceedings of IEEE International RF and Microwave Conference, 9-11 Dec., 2013.
65. Qammer H. Abbasi, Sidrah Liaqat and Akram Alomainy, "An Improved Radio Channel Characterisation for Ultra Wideband On-Body Communications using Support Vector Method", Ubi-HealthTech 2013, 1-3 July, 2013, China.
66. Ke Yang, Alice Pellegrini, Alessio Brizzi, Akram Alomainy, Yang Hao, "Numerical Analysis of the Communication Channel Path Loss at the THz Band inside the Fat Tissue", IEEE IMWS-Bio 2013, Singapore, 9-11 December 2013
67. Akram Alomainy, Tamer Aboufoul and Clive G. Parini, " Multi-Mode Reconfiguration of a Compact Ultra-wideband Antenna", Progress In Electromagnetics Research Symposium (PIERS 2013) in Stockholm, Sweden, 12-15 August, 2013. (Invited)
68. Akram Alomainy, Richa Bharadwaj and Clive G. Parini, " Numerical Investigation of Body-worn Ultra Wideband Antenna Localisation Techniques for Motion Capture Applications", Progress In Electromagnetics Research Symposium (PIERS 2013) in Stockholm, Sweden, 12-15 August, 2013. (Invited)
69. T Aboufoul, K Ali, A Alomainy, C Parini, "Combined pattern and frequency reconfiguration of single-element ultra-wideband monopole antenna for Cognitive Radio devices" 2013 7th European Conference on Antennas and Propagation (EuCAP), 932-936
70. Richa Bharadwaj, Ke Yang, Akram Alomainy, Clive Parini, "Effect of Base Station Configurations and Complexity on the Accuracy of Ultra Wideband Localisation", 2013 IEEE AP-S/USNC-URSI Symposium, July 7- 13, 2013 in Orlando, Florida

71. Ke Yang, Akram Alomainy, Yang Hao, "In-vivo Characterisation and Numerical Analysis of the THz Radio Channel for Nanoscale Body-Centric Wireless Networks", 2013 IEEE AP-S/USNC-URSI Symposium, July 7- 13, 2013 in Orlando, Florida
72. Tamer Aboufoul, Akram Alomainy, Clive Parini, "Polarisation Reconfigurable Ultra Wideband Antenna for Cognitive Radio Devices", 2013 IEEE AP-S/USNC-URSI Symposium, July 7- 13, 2013 in Orlando, Florida
73. M Magani, L Guo, X Chen, A Alomainy, "Study of UWB adaptive bit loading in time varying channel", 2013 International Workshop on Antenna Technology (iWAT), March 4-6, 2013, Karlsruhe, Germany, 141-144
74. R Di Bari, A Alomainy, Y Hao, "Cooperative and Low-Power Wireless Sensor Network for Efficient Body-Centric Communications in Healthcare Applications", Wireless Mobile Communication and Healthcare, 2013, pp. 351-360. (Invited)
75. QH Abbasi, MM Khan, S Liaqat, A Alomainy, Y Hao, "Ultra wideband off-body radio channel characterisation for different environments", 2012 7th International Conference on Electrical & Computer Engineering (ICECE).
76. T Aboufoul, A Alomainy, C Parini, "A planar dual fed UWB monopole antenna with polarization diversity for cognitive radio sensing", 2012 Loughborough Antennas and Propagation Conference (LAPC).
77. T Aboufoul, I Shoaib, A Alomainy, X Chen, "Pattern reconfigurable planar UWB antenna array for future cognitive radio portable devices", 2012 Loughborough Antennas and Propagation Conference (LAPC).
78. M Magani, L Guo, X Chen, Y Alfadhl, A Alomainy, "Evaluation of MB OFDM UWB for high data rate applications", 2012 Loughborough Antennas and Propagation Conference (LAPC).
79. K Ali, A Brizzi, A Pellegrini, Y Hao, A Alomainy, "Investigation of the effect of fabric in on-body communication using Finite Difference Time Domain technique at 60GHz", 2012 Loughborough Antennas and Propagation Conference (LAPC).
80. Akram H. M. Alomainy, Tamer Aboufoul, Clive G. Parini, "Frequency Reconfigured UWB Circular Disc Monopole Antenna Using PIN Diodes and GaAs FET Switches", Advanced Electromagnetics Symposium (AES) 2012, 16 – 19 April 2012, Paris, France. (Invited)
81. Q. H. Abbasi, A. Alomainy and Y. Hao, " Ultra wideband antenna diversity techniques for on/off-body radio channel characterisation", 2012 IEEE International Workshop on Antenna Technology (iWAT), 5 – 7 March 2012, Tucson, Arizona.
82. R. Bharadwaj, A. Alomainy, C. G. Parini, "Study of Ultra wideband localisation techniques using various monitoring configurations", 2012 6th European Conference on Antennas and Propagation, (EUCAP 2012), 26 – 30 March 2012, Prague.
83. R Bharadwaj, A Alomainy, C Parini, "Localisation of body-worn sensors applying Ultra Wideband technology", 2012 IEEE Asia Pacific Conference on Antennas and Propagation (APCAP), Singapore, 27 – 29 August 2012. (Invited)
84. M. M. Khan, Q. H. Abbasi, A. Alomainy, Y. Hao and C. G. Parini, "Ultra wideband off-body radio channel characterisation and modelling for healthcare applications", Wireless Telecommunications Symposium (WTS), London, 18 – 20 April 2012.
85. Q. H. Abbasi, M. M. Khan, A. Alomainy, Y. Hao and C. G. Parini, "Second order statistics of ultra wideband on-body radio channels", Wireless Telecommunications Symposium (WTS), London, 18 – 20 April 2012.
86. K Ali, A Brizzi, SL Lee, Y Hao, A Alomainy, GZ Yang, "Numerical analysis of on-body channel for statistically-generated body shapes", 2011 Loughborough Antennas and Propagation Conference (LAPC), 14 – 15 November 2011, Loughborough, UK.
87. R Bharadwaj, QH Abbasi, A Alomainy, C Parini, "Ultra wideband sub-band time of arrival estimation for location detection", 2011 Loughborough Antennas and Propagation Conference (LAPC), 14 – 15 November 2011, Loughborough, UK.

88. S Dey, N Saha, A Alomainy, "Design and performance analysis of narrow band textile antenna for three different substrate permittivity materials and bending consequence", 2011 Loughborough Antennas and Propagation Conference (LAPC), 14 – 15 November 2011, Loughborough, UK.
89. T Aboufoul, A Alomainy, "Reconfigurable printed UWB circular disc monopole antenna", 2011 Loughborough Antennas and Propagation Conference (LAPC), 14 – 15 November 2011, Loughborough, UK.
90. T Aboufoul, A Alomainy, "Single–element reconfigurable planar ultra wideband antenna for cognitive radio front end", Proceedings of the 4th International Conference on Cognitive Radio and Advanced Spectrum Management (CogART 2011), Barcelona, 26 – 29 October 2011.
91. QH Abbasi, MM Khan, A Alomainy, Y Hao, "Characterisation of ultra wideband body–centric radio channel dependency on angular and spatial variations", 2011 41st European Microwave Conference (EuMC), 10 – 13 October 2011, Manchester, UK.
92. MM Khan, QH Abbasi, A Alomainy, Y Hao, "Ultra wideband wireless tags for off–body radio channel characterisation with varying subject postures", 2011 41st European Microwave Conference (EuMC), 10 – 13 October 2011, Manchester, UK.
93. MM Khan, QH Abbasi, A Alomainy, Y Hao, "Investigation of body shape variations effect on the Ultra–Wideband on–body radio propagation channel", 2011 International Conference on Electromagnetics in Advanced Applications (ICEAA), 12 – 16 September 2011, Torino, Italy. (*Invited*)
94. QH Abbasi, A Sani, A Alomainy, Y Hao, "Numerical analysis of posture variation effect on the ultra wideband on–body radio propagation channels using advanced modelling techniques", IET 8th International Conference on Computation in Electromagnetics (CEM 2011), 11 – 14 April 2011, Wroclaw, Poland. (*Invited*)
95. Q. H. Abbasi, M. M. Khan, A. Alomainy, and Y. Hao, "Radio Channel Characterisation and OFDM–based Ultra Wideband System Modelling for Body–Centric Wireless Networks", 2011 International Conference on Body Sensor Networks (BSN 2011), June 7 – 9, 2010, 22 May Dallas, USA.
96. Q. H. Abbasi, M. M. Khan, A. Alomainy, and Y. Hao, "Diversity Antenna Techniques for Enhanced Ultra Wideband Body–Centric Communications", the 2011 IEEE International Symposium on Antennas and Propagation (APS 2011), July 3–8, 2011, Spokane, Washington, USA.
97. R. Di Bari, Q. H. Abbasi, A. Alomainy, and Y. Hao, "Statistical Analysis of Small–Scale Channel Parameters for Ultra Wideband Radio Channels in Body–Centric Wireless Networks", the 2011 IEEE International Symposium on Antennas and Propagation (APS 2011), July 3–8, 2011, Spokane, Washington, USA.
98. M. M. Khan, Q. H. Abbasi, A. Alomainy, C. Parini and Y. Hao, "Dual Band and Dual Mode Antenna for Power Efficient Body–Centric Wireless Communications", The 2011 IEEE International Symposium on Antennas and Propagation (APS 2011), July 3–8, 2011, Spokane, Washington, USA.
99. M. M. Khan, Q. H. Abbasi, A. Alomainy and Y. Hao, "Radio Propagation Channel Characterisation Using Ultra Wideband Wireless Tags for Body–Centric Wireless Networks in Indoor Environment", 2011 IEEE International Workshop on Antenna Technology 7–9 March, Hong Kong, IWAT 2011.
100. Q. H. Abbasi, M. M. Khan, A. Alomainy, and Y. Hao, "Sectorial Radio Channel Characterisation for Ultra Wideband Body–centric Wireless Communications", the 5th European Conference on Antennas and Propagation, EuCAP, Rome, Italy, on 11–15 April 2011.

101. M. H. Sagor, Q. H. Abbasi, A. Alomainy, and Y. Hao ,Compact and Conformal Ultra Wideband Antenna for Wearable Applications, the 5th European Conference on Antennas and Propagation, EuCAP, Rome, Italy, on 11–15 April 2011.
102. X. D. Yang, Q. H. Abbasi, A. Alomainy, and Y. Hao, K–Weight Based Spatial Autocorrelation Model for On–body Communication, the 5th European Conference on Antennas and Propagation, EuCAP, Rome, Italy, on 11–15 April 2011.
103. M. M. Khan, Q. H. Abbasi, A. Alomainy and Y. Hao “Study of Line–of–Sight (LoS) and Non–Line–of–Sight (NLoS) Ultra Wideband Off–Body Radio Propagation for Body Centric Wireless Communications in Indoor”, the 5th European Conference on Antennas and Propagation, EuCAP, Rome, Italy, on 11–15 April 2011.
104. Q. H. Abbasi, M. M. Khan, A. Alomainy, and Y. Hao, “Characterization and Modelling Of Ultra Wideband Radio Links For Optimum Performance Of Body Area Network In Health Care Applications,” 2011 IEEE International Workshop on Antenna Technology 7–9 March, Hong Kong, IWAT 2011.
105. Q. H. Abbasi, A. Alomainy, and Y. Hao, Antenna Diversity technique for enhanced UWB Radio performance in Body–Centric wireless communications, European Wireless Technology Conference 2010, Paris, September 27–28, 2010.
106. Q. H. Abbasi, A. Alomainy and Y. Hao, Recent Development of Ultra Wideband Body–Centric Wireless Communications, IEEE international conference of Ultra Wideband technology (ICUWB), Nanjing, China, September 20–23, 2010.
107. Q. H. Abbasi, A. Alomainy and Y. Hao, Characterization of Spatial Diversity for Ultra Wideband Body–Centric Wireless Networks, 2010 URSI EMTS (Electromagnetic Theory Symposium), Berlin, August 16–19, 2010 (invited talk).
108. Q. H. Abbasi, A. Alomainy and Y. Hao, Effect of Human Body Movements on Performance of Multiband OFDM based Ultra Wideband Wireless Communication System, Loughborough Antennas and Propagation Conference (LAPC2010), Loughborough, UK, 8–9 Nov. 2010.
109. Mohammad Monirujjaman Khan, Akram Alomainy, Yang Hao, "Characterisation of Dynamic Radio Propagation Channels in Body–Centric Wireless Networks Using Ultra–Wideband Wireless Tags", Loughborough Antennas & Propagation Conference 2010 (LAPC2010),8–9 November 2010, Loughborough, UK.
110. Mohammad Monirujjaman Khan, Akram Alomainy and Yang Hao, "Off–Body Radio Channel Characterisation Using Ultra Wideband Wireless Tags", 2010 International Conference on Body Sensor Networks (BSN 2010), June 7 – 9, 2010, Biopolis, Singapore.
111. A. Alomainy, A. Sani, Y. Hao, G. Pettitt and P. Cushnaghan, "Parametric Study of Ground Reflections and Diversity Techniques Effect on Body–Worn VHF/UHF Antenna Performance", European Conference on Antennas and Propagation (EuCAP 2010), 12–16 April 2010, Barcelona, Spain. (*Invited*)
112. A. Alomainy, Q. H. Abbasi, A. Sani and Y. Hao, " System–Level Modelling of Optimal Ultra Wideband Body–Centric Wireless Network ", Asia Pacific Microwave Conference (APMC) 2009, Singapore, 7–10 December 2009. (*Invited*)
113. Qammer Abbasi, Andrea Sani, Akram Alomainy, Yang Hao “Arm Movements Effect on Ultra Wideband On–Body Propagation Channels and Radio Systems” to be presented at LAPC 2009.
114. Andrea Sani, Yan Zhao, Akram Alomainy, Yang Hao and Clive Parini “Modelling of Propagation and Interaction Between Body–Mounted Antennas, and the Modelling of Body–Centric, Context Aware Application Scenarios” presented at the IET seminar on Body–Centric Wireless Communications, London 2009.
115. A. Sani, A. Alomainy, Y. Hao, “The Effect of Various Human Body Tissue Models on Radiowave Propagation from a Bladder Implanted Wireless Source”, Proceedings of IEEE International Symposium on Antennas and Propagation and USNC–URSI National Radio Science Meeting, 1–5 June 2009.

116. J. Diskin, A. Alomainy, and C. Brennan, "An Accelerated Frequency Domain Ray-tracing Simulator for Ultra-Wideband Communications", Progress in Electromagnetics Research Symposium (PIERS 2009), 23–27 March 2009, Beijing, China.
117. Andrea Sani, Akram Alomainy, and Yang Hao, "Time Domain UWB Radio Channel Characterisation for Body-Centric Wireless Communications in Indoor Environment", presented at IET seminar on wideband and ultrawide band systems and technologies, London, 20 April 2009.
118. Andrea Sani, Akram Alomainy, and Yang Hao, "Effect of the Indoor Environment on the UWB On-Body Radio Propagation Channel" invited for presentation at EUCAP 2009 Berlin 23–27 March.
119. Andrea Sani, Akram Alomainy, and Yang Hao, "Numerical Characterization of the Radiation from Implanted Wireless Sources Considering Different Digital Body Phantoms" invited for presentation at EUCAP 2009 Berlin 23–27 March.
120. Andrea Sani, Akram Alomainy, Yang Hao, "Characterisation of Ultra Wideband Wearable Antennas and Body-Centric Wireless-Networks in Indoor Environment", European Microwave Week (EuMW) 2008, October 2008, Amsterdam, The Netherlands.
121. Andrea Sani, Akram Alomainy, Jaime Santas, Yang Hao, "Time Domain Characterisation of Ultra Wideband Wearable Antennas and Radio Propagation for Body-Centric Wireless Networks in Healthcare Applications", The 5th International Workshop on Wearable and Implantable Body Sensor Networks (BSN 2008), Hong Kong, 1 – 3 June 2008.
122. A. Rahman, A. Alomainy and Y. Hao, "Compact Body-Worn Coplanar Waveguide Fed Antenna for UWB Body-Centric Wireless Communications", *European Conference on Antennas and Propagation* (EuCAP 2007), November 2007, Edinborough, UK.
123. J. Santas, A. Alomainy, Y. Hao, "Textile Antennas for On-Body Communications: Techniques and Properties", *European Conference on Antennas and Propagation* (EuCAP 2007), November 2007, Edinborough, UK.
124. J. Santas, A. Alomainy and Y. Hao, "Effect of Variation in Material Property on Conformal Textile Antenna Performance", *5th European Workshop on Conformal Antennas*, University of Bristol, UK, 10–11 September 2007.
125. A. Alomainy, Y. Hao and C. G. Parini, "Transient and Small-Scale Analysis of Ultra Wideband On-Body Radio Channel", *North American Radio Science Meeting URSI 2007*, Ottawa, Canada, July 22–26 2007.
126. Akram Alomainy and Yang Hao, David M Davenport, "Parametric Study of Wearable Antennas with Varying Distances from the Body and Different On-Body Positions", *IET Seminar on Antennas and Propagation for Body-Centric Wireless Communications*, 24 April 2007, The Institute of Physics, London, UK.
127. Akram Alomainy, Yang Hao and Frank Pasveer, "Modelling and Characterisation of a Compact Sensor Antenna for Healthcare Applications", *Body Sensor Networks* 26th–28th March, 2007, Aachen, Germany.
128. A. Alomainy, Y. Hao, Y. Yuan and Y. Liu, "Modelling and Characterisation of Radio Propagation from Wireless Implants at Different Frequencies", *European Microwave Week 2006*, European Conference on Wireless Technology (ECWT), Manchester, UK, Sept. 10–15, 2006.
129. Akram Alomainy, Yang Hao, "Radio Channel Models for UWB Body-Centric Networks with Compact Planar Antenna", *2006 IEEE AP-S International Symposium on Antennas and Propagation*, Albuquerque, New Mexico, USA, Jul. 9–14, 2006.
130. Y. Hao, A. Alomainy, Y. Zhao, C. G. Parini, Y. I. Nechayev, P. S. Hall and C. C. Constantinou, "Statistical and Deterministic Modelling of Radio Propagation Channels in WBAN at 2.45GHz", *2006 IEEE AP-S International Symposium on Antennas and Propagation*, Albuquerque, New Mexico, USA, Jul. 9–14, 2006.

131. Y.Hao, A. Alomainy, Y. Zhao, and C. Parini, "UWB Body-Centric Network: Radio Channel Characteristics and Deterministic Propagation Modelling", *IEE Seminar on Ultra-Wideband Systems, Technologies and Applications*, London, UK, Apr. 20, 2006.
132. Y. Hao, A. Alomainy, Y. Zhao, C. G. Parini, P. S. Hall, Y. I. Nechayev, and C. C. Constantinou, "Antennas and Propagation for Body Centric Wireless Communications", *International Wireless Summit (IWS 2005)*, Aalborg, Denmark, Sep. 18–22, 2005.
133. A. Alomainy, Y. Hao, C. G. Parini and P. S. Hall, "Characterisation of Printed UWB Antennas for On-Body Communications", *IEE Wideband and Multi-band Antennas and Arrays*, Birmingham, UK, 7 September 2005.
134. A. Alomainy, Y. Hao, C. G. Parini and P. S. Hall, "On-Body Propagation Channel Characterisation for UWB Wireless Body-Centric Networks", *2005 IEEE AP-S International Symposium on Antennas and Propagation and USNC/URSI National Radio Science Meeting*, Washington DC, USA, 3–8 July 2005.
135. Y. Hao, A. Alomainy, W. Song, C. G. Parini, P. S. Hall, Y. I. Nechayev and C. C. Constantinou, "Numerical Modelling of On-Body Radio Propagation Channel", *2005 IEEE AP-S International Symposium on Antennas and Propagation and USNC/URSI National Radio Science Meeting*, Washington DC, USA, 3–8 July 2005.
136. P. S. Hall, Y. I. Nechayev, C. C. Constantinou, Y. Hao, A. Alomainy, R. Dubrovka, and C. G. Parini, "Antennas and propagation for on-body communication systems," *11th International Symposium on Antenna Technology and Applied Electromagnetics*, Saint Malo, France, 2005.
137. Y. I. Nechayev, P. S. Hall, C. C. Constantinou, Y. Hao, A. Alomainy, R. Dubrovka, and C. G. Parini, "On-body path gain variations with changing body posture and antenna position," *IEEE AP-S International Symposium and USNC/URSI National Radio Science Meeting*, Washington, DC, 2005.
138. Yang Hao, Akram Alomainy, Yan Zhao and Clive G. Parini, "UWB Channel Characterisation and Modelling for Body-Centric and Personal Area Networks", *12th International Conference on Telecommunications*, Cape Town, South Africa, 3–6 May 2005.(Invited)
139. P. S. Hall, Y. I. Nechayev, Y. Hao, A. Alomainy, M R Kamarudin, C. C. Constantinou, R Dubrovka and C. G. Parini, "Narrowband and Wideband Radio Channel Characterisation and Antennas for On-Body Communication Systems", *2nd International Workshop on Wearable & Implantable Body Sensor Networks*, 12–13 April, 2005, Imperial College, London UK.
140. P. S. Hall, Y. I. Nechayev, Y. Hao, A. Alomainy, M R Kamarudin, C. C. Constantinou, R Dubrovka and C. G. Parini, "Radio Channel Characterisation and Antennas for On-Body Communications", *Loughborough Antenna and Propagation Conference*, 4–6 April, 2005, UK.
141. Y. Hao, A. Alomainy, P. S. Hall, Y. I. Nechayev, C. G. Parini, and C. C. Constantinou, "Antennas and Propagation for Body Centric Wireless Communications", *IEEE/ACES International Conference on Wireless Communications and Applied Computational Electromagnetics*, 3–7 April, 2005, Honolulu, Hawaii, USA.
142. Y. Nechayev, P. Hall, A. Alomainy, Y. Hao, C. Constantinou, and C. Parini, "Measurements and modelling of on-body transmission channels", *presented at National URSI Symposium*, University of Bath, 2004.
143. P Hall, Y Nechayev, A. Alomainy, Y Hao, A Owadally, C Constantinou and C Parini, "On-Body Communications Channel Characterisation for Wearable Computer Systems", *Joint COST 273/284 Workshop on Antennas and Related System Aspects in Wireless Communications*, 9 June 2004, Gothenburg, Sweden.
144. A. Alomainy, A. S. Owadally, Y. Hao, C. G. Parini, Y. I. Nechayev, C. C. Constantinou and P. S. Hall, "Body-Centric WLANs for Future Wearable Computers", *1st International Workshop on Wearable & Implantable Body Sensor Networks*, 6–7 April, 2004, Imperial College, London UK.

145. Y. Hao, A. Alomainy, I. J. Garcia Zuazola, C. G. Parini, "Small Antennas on Electromagnetic BandGap Structures", *Progress In Electromagnetic Research Symposium Proceeding (PIERS 2004)*, 28–31 March, 2004, Pisa, Italy.