Professor and Dean

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**PROFESSIONAL EXPERIENCE PROFESSIONAL ACTIVITIES PROFESSIONAL EXPERIENCE CONFERENCE CHAIR AND ORGANISATION** Very actively involved in top international conferences and IEEE activities. Professor and Dean General Co-Chair (IMVIP05, ECVW10, ICM14) College of Computing and Informatics Technical Program Co-Chair (ICM12, DELTA08, CSITC05) University of Sharjah, UAE • Track Chair-Tutorials ASQED, SOCC, BIOCAS, AICCSA Aug 2021-Present Member of the Steering Committee (ECVW, WOSSPA) CONFERENCE TECHNICAL PROGRAM COMMITTEE Professor and Associate Dean for Research and Innovation Involved in more than 50 conferences (PC member, Track chair, steering Honorary Professor (Aug 2021- Present) committee...etc) Interim Director of the Institute of Artificial Intelligence (since May 2020) **CONFERENCE SESSION CHAIR** De Montfort University, Leicester, United Kingdom Chairing more than 20 sessions at international conferences and events July 2019-Aug (MWSCAS, ICM, IMVIP, BIOCAS, ASQED, AHS, ICECS...etc) 2021 REVIEWER EPSRC-UK, QNRF-Qatar, Czech Science Foundation, USA, Australian Research Council, John Wiley and Sons, IEEE Transactions and Conferences, IET, ACM, Springer, Elsevier...etc. Professor (Computer Science and Engineering Department) Associate Dean for Research and Graduate Studie (Jan 2017 - Jun ATTENDED INDUSTRIAL TRAINING COURSES 2019) Xilinx, Mentor Graphics, TI Acting Director of KINDI Center for Computing Research (Aug 2016 -INTERNATIONAL SCIENTIFIC COMMITTEES- ADVISORY Dec 2016) BOARDS/NETWORKS College of Engineering, Qatar University, Qatar IEEE BIOCAS Technical Committee, TTTC, HiPEAC, CDTA, MRSN, VPH Sep 2014 - Jun 2019 NoE Professor (School of Engineering and Computing) **EXHIBITIONS** (Secondment at Qatar University, from Oct 2014-Jun2018) University of the West of Scotland, United Kingdom • Member of the exhibition team with Invest NI at CEBit2002 Feb 2013-Jun 2018 (Hannover, Germany), March 13-20, 2002. Visiting Professor • Exhibition at the European telemedicine conference, Edinburgh, University of Tun Hussein Onn, Malaysia Scotland, 29-30 October 2013. Jan 2011-Aug 2015 • Exhibition at the DHEALTH 2014 SHOWCASE, Stirling Management Reader in Embedded Systems Centre (Stirling University), Scotland, 1st April 2014. University of Ulster, United Kingdom AWARDS AND DISTINCTIONS (SELECTED) Apr 2010-Jan 2013 Best student paper award at IEEE GPECOM 2020 conference, Visiting Professor Turkey University of HENRI POINCARE, France Best presentation award at SCORed 2019 conference, Malaysia Oct 2010-Aug 2011 • Best poster and presentation awards at ELSO-SWAT 2017 Senior Lecturer (Associate Professor) • 2016 selected success story for NPRP project (at ARC 2016) Brunel University, United Kingdom • 2016 First place for the best Senior Design Project in GCC region May 2006-Mar 2010 • 2014 Best PhD paper award, AICCSA conference Consultant • 2013 Best paper award, IEEE ICECS conference Consultancy work in the area of video recognition, • 2013 QNRF ARC'13 prize for the Best poster presentation Inscentinel Ltd- Rothamsted Research, United Kingdom • 2011 Gold Crest Award Consultancy work in the area of video content analysis • 2010 Best Paper Award in UK-MEC 2010 Conference Miragex LLC, United Kingdom • IEEE Communication Prize for the Best MSc project in 2009/2010, Nov 2006-Jul 2009 **Brunel Universitv** Lecturer (Assistant Professor) • 2008 VARIAN Prize of Appreciation by the Swiss Society of Queen's University Belfast, United Kingdom Radiobiology and Medical Physics (SGSMP) for the best paper Nov 2001-Apr 2006 impacting Radiation Oncology EDUCATION • 2007 Brunel Vice-Chancellor's Prize for best Doctoral Research **PGCHET** (Postgraduate Certificate in Higher Education Teaching) • Cooperative Award for Science and Technology (CAST) to develop Queen's University, Belfast, United Kingdom Jul software tools for Andor Technologies' CCTV cameras, 2005-2006 2003 • Two prestigious travel scholarships Awarded by Celoxica Ltd (Oxford, PhD in Computer Science/ Engineering UK), 2002-2003 Queen's University, Belfast, United Kingdom Dec 2007 Thomas Gerald Award (Scholarship for PhD project) 2001 "Queen's University Belfast Scholarship" received for pursuing PhD MSc (One year) in Signals and Systems studies at QUB, 1999, Belfast, United Kingdom National Polytechnic School of Algiers Jul 1999 KEYNOTE, INVITED TALKS AND PAPERS **Dipl-Ing** (MEng) in Electronics 50 invited talks and papers (UK, USA, Malaysia, France, Japan, Qatar, National Polytechnic School of Algiers Jul North Africa, ...) 1998 PROFESSIONAL MEMBERSHIPS EDITORSHIP and NEWSLETTERS Pattern Recognition, Journal on Advances in Artificial Intelligence, Fellow of the IFT International Journal on Information Technology, EURASIP Journal on • Fellow of the Higher Education Academy Image and Video Processing, IEEE Circuits and Systems Society Senior Member IEEE Newsletter Senior Member ACM RESEARCH STUDENTS/STAFF SUPERVISION Ph.D and MPhil THESIS EXAMINATION Supervise more than 20 PhD students External Examiner for more than 30 PhD examinations (UK, Hong 25 (RAs, PostDocs, Visiting Researchers) Kong, Qatar, Australia, Ireland, Finland, France)

Curriculum Vita (Short 2 pages CV)	Prof. Abbes Amira
External Examiner BEng Course in Electronic and Computer Engineering, and MSc in Electrical Engineering, University of Tun	SELECTED RECENT PUBLICATIONS
Hussein Onn, Malaysia TEACHING	<ol> <li>Y Himeur, A Alsalemi, F Bensaali, A Amira "Smart power consumption abnormality detection in buildings using micro- moments and improved K-nearest neighbors" <i>International Journal</i> of Intelligent Systems (Accepted). (IF: 10.312).</li> </ol>
<ul> <li>Teaching experience at 7 Universities (UoS, QUB, Brunel, Ulster, UWS-UK, Qatar University-Qatar, ENP-Algiers)</li> <li>Teaching expertise: Parallel Computing, Real-time embedded systems, computer architecture, DSP, Image processing, algorithms and data structure, 3D graphics, communications, digital systems design Bng, MEng, SDP, MSc supervision: More than 60 students</li> </ul>	<ol> <li>A. Alsalemi, Y. Himeur, F. Bensaali, A. Amira, C. Sardianos, C. Chronis, I. Varlamis, G. Dimitrakopoulos., "A Micro-Moment System for Domestic Energy Efficiency Analysis," <i>IEEE Systems Journal</i>, pp. 1256-1263, VOL15, March 2021. (IF=3.987).</li> <li>C. Sardianos, I. Varlamis, G. Dimitrakopoulos, D.</li> </ol>
UNIVERSITY SERVICE: COLLEGIALITY AND MANAGEMENT	<ul> <li>Anagnostopoulos, A. Alsalemi, F. Bensaali, Y. Himeur, A. Amira,</li> <li>"REHAB-C: Recommendations for Energy HABits Change,"</li> <li>Future Generation Computer Systems, vol. 112, pp. 394–407, Nov.</li> </ul>
• Taking administration roles at 7 Universities (UoS-UAE, QU-Qatar),	2020
(QUB, Brunel, Ulster, UWS, DMU-UK,) <u>Key roles</u> : Dean, Associate Dean, Institute Director, Leader of the Visual Communication Cluster, EU coordinator for NIBEC Research Centre, Chair of the Research and Graduate Studies group, Chair of the Research Marketing Review group, Industrial Placement Tutor, Course director for UG/ PG programmes, Internationalization operation groupetc.	<ol> <li>A Alsalemi, Y. Himeur, F Bensaali, A. Amira, C. Sardianos, I. Varlamis, G. Dimitrikapoulos "Achieving Domestic Energy Efficiency using Micro-Moments and Intelligent Recommendations" <u>IEEE Access</u>, pp 15047 – 15055, VOL8, January 2020.</li> </ol>
RESEARCH OUTPUTS	<ol> <li>S. S. S Esfahani, X. Zhai, M. Chen, A. Amira, F. Bensaali, J. AbiNahed, S. Dakua, G. Younes, A. Baobeid, R. Richardson, P.</li> </ol>
<ul> <li>RESEARCH GRANTS AND CONTRACTS <ul> <li>Securing funding from (more than 35 grants/ over 6 Million USD (£4.5M)):</li> <li>NPRP, UREP,EPSRC, British Council, Royal Academy, Royal Society, Consultancy-CAST-KTP with Industry, EU, Qatar Foundation</li> <li>Selected: (900K USD from QNRF to develop and implement new pattern recognition algorithms for Gas applications.</li> <li>Industrial Projects with: Andor, TWI, Xilinx, Mentor Graphics, Miragex, Inscentinel, NVIDIA, Codeplay</li> </ul> </li> <li>More than 400 PUBLICATIONS <ul> <li>+ 120 Journals</li> <li>+ 220 Conference Papers</li> <li>+ 200 Book Chapters</li> </ul> </li> <li>AREAS OF EXPERTISE <ul> <li>Embedded Systems, Robotics and High Performance Computing</li> <li>Artificial Intelligence, Big Data and IoT</li> <li>Digital Health Technologies and Sensors</li> <li>Image and Vision Systems</li> </ul> </li> <li>TUTORIALS AND SHORT COURSES</li> <li>15 tutorials and short courses in the area of embedded systems, image processing, biometrics and healthcare systems (ICIP2009, ISPIT 2016, IDT2012, ICECS 2018, IMVIP2005, Malaysia, UK, France, Greece, Algeria)</li> </ul>	<ol> <li>Horvard, D. Jakak, C. Folnes, R. Baboetk, R. Rehadshi, F. Coveney "Lattice-Boltzmann interactive blood flow simulation pipeline", <u>International Journal of Computer Assisted Radiology and Surgery</u>, Vol 15, pages 629–639, (2020).</li> <li>A. Alsalemi, L. Tanaka, M. Ogino, M. Al Disi, Y. Alhomsi, F. Bensaali, A. Amira and G. Alinier, "A skills acquisition study on ECMOjo: a screen-based simulator for extracorporeal membrane oxygenation", <u>Perfusion, SAGE Journals</u>, 35 (2), 110-116, March 2020.</li> <li>M. S. Sharif, M. Abbod, A. Al-bayatti, A. Amira, A. Alakeeh, B. Sanghera "An Accurate Ensemble Classifier for Medical Volume Analysis: Phantom and Clinical PET Study", <u>IEEE Access</u>, Vol 8, pp 37482-37494, February 2020.</li> <li>H Djelouat, M Al Disi, I Boukhenoufa, A Amira, F Bensaali, C Kotronis "Real-time ECG monitoring using compressive sensing on a heterogeneous multicore edge-device" <u>Microprocessors and Microsystems</u>, Volume 72, pp 1-10, February 2020.</li> <li>O Kerdjidj, N. Ramzan, K. Ghanem, A. Amira, F. Chouireb 'Fall detection and human activity classification using wearable sensors and compressed sensing "Journal of Ambient Intelligence and <u>Humanized Computing (Springer)</u>, Vol 11, pp 349-361, January 2020.</li> <li>H Djelouat, A Amira, F Bensaali, I Boukhennoufa "Secure compressive sensing for ECG monitoring" <u>Computers &amp; Security</u>, Volume 88, pp 1-8, January 2020.</li> <li>X Zhai, M. Chen, S. S. Esfahani, A. Amira, F. Bensaali, J. Abinahed, S. Dakua, R. Richardson, P.V. Coveney "Heterogeneous System-on-Chip-Based Lattice-Boltzmann Visual Simulation System" <u>IEEE Systems Journal</u>, Vol 14, NO.2, 1592-1601, June 2020.</li> <li>S.P.Dakua, J. Abinahed, A. Zakaria, S. Balakrishnan, G. Younes, N. Navkar, A. Al-Ansari, X. Zhai, F. Bensaali, A. Amira "Moving object tracking in clinical scenarios: application to cardiac surgery and cerebral aneurysm clipping" <u>International journal of computer assisted radiology and surgery</u>, Volume 14, Issue 12, pp 2165–2176, December</li></ol>