HADJ BOURDOUCEN, PhD, SMIEEE

PROFESSOR & DIRECTOR CIRC
Department of Electrical and Computer Engineering
College of Engineering, Sultan Qaboos University
P.O.Box 33, AL-Khod 123, Oman
Phone No.: (+968) 2414325, (+968) 24143696
Email: hadj@squ.edu.om   & hadj@daad-alumni.de

EDUCATION

Ph. D.   Electronics (with Distinction), Ecole Central de Lyon, France, 1987
MS   Integrated Electronics, Ecole Central de Lyon, France, 1984
B.Eng. Electrical & Computer Engineering (First Class), INELEC, University of Boumerdes, Algeria, 1983

ACADEMIC RECORDS WITH SQU

Director, Communication and Information Research Center (CIRC), Sept 2009 - present
Professor of Electrical and Computer Engineering, 05/10-present
Head, Department of Electrical and Computer Engineering, 09/03-08/07
Head, Department of Information Engineering, 09/02-12/02.

OTHER RELATED EXPERIENCE: TEACHING, INDUSTRIAL, ETC

Director, Communication and Information Research Center (CIRC), 2009 to present, Professor of Electrical and Computer Engineering, 2010 to present, Head of Department of Information Engineering at SQU, (09/2002-01/2003). Associate Professor, Electrical & Electronics Engineering INELEC, University of Boumerdes, (1994-1998). Associate Professor, University of Boumerdes, Faculty of Engineering, Department of Electrical & Electronics Engineering, Boumerdes, Algeria 10/94 to 10/97. Assistant Professor, University of Boumerdes, Faculty of Engineering, Department of Electrical & Electronics Engineering, Boumerdes, Algeria 9/90 to 10/94. Assistant Professor, Houari Boumedienne University of Science and Technology, Institute of Electronics, Department of Instrumentation and Communications, Algiers 09/89 to 10/90. Lecturer, Houari Boumedienne University of Science and Technology, Institute of Electronics, Department of Instrumentation and Communications, Algiers 10/87 to 9/89.

PUBLICATIONS

SOME SAMPLE JOURNAL Articles:

1- O. Rehman, M. Ould-Khaoua, H. Bourdoucen, (2015) "Link Quality Estimation in VANETs for Multi-hop Alert Messages Dissemination", International Journal of Communication Networks and Distributed Systems, in press, vol. 15, no 4, 2015.

2- Rehman, O., M., Ould-Khaoua, M. Bourdoucen, H., (2015). Performance Evaluation of Broadcast Beacons in VANETs Over Road Intersections and Roundabouts, Global Journal on Technology. Issue 8 (2015) 133-142. Available from: http://awer-center.org/gjt/.

3- Laxman, K., Myint, M.T.Z., Bourdoucen, H., and Dutta, J., (2014). Enhancement in ion adsorption rate and desalination efficiency in a capacitive deionization cell through improved electric field distribution using electrodes composed of activated carbon cloth coated with zinc oxide nanorods. ACS Appl Mater Interfaces 2014 Jul 26, 6(13):10113-20.

4- H. Bourdoucen, F. A. S. Al-Azani, and A. Naamany, (2013) "A Study of Fuzzy Logic-Based Controller for Diff-Serv Bandwidth Broking", Journal of Computing and Information Technology, vol. 21, pp. 1-11, 2013

5- A. Al-Lawati and H. Bourdoucen, (2011) "Improvement of RMSE in Optical Fiber Communication Systems Using RBF ANN Post Processing Approach", The Journal of Electrical Engineering, Vol. 11, 1, 2011, 9-12.

6- H. Bourdoucen, (2008) "Effect of seasonal temperature fluctuations on performance of 160 Gbps transmission with adjustable chromatic dispersion compensation", Journal of High Speed Networks, vol. 17, no 1, pp 51-57, 2008.

7- J. A. Jervase and H Bourdoucen, (2002) "Design of Ultra Fast RCE Photodetectors for Optical Communication Systems", Journal of Scientific Research-Science and Technology, 7, pp. 101-107, 2002.

ONFERENCE PROCEEDINGS ARTICLES:

1- Shaima M. Shakeel, Osama M. Hussain Rehman, Mohamed Ould-Khaoua, Hadj Bourdoucen, "Open Source Software Support for Field Experiments of Vehicular Ad Hoc Networks", Free and Open Source Software Conference (FOSSC Oman), 02/2015, Muscat - Oman.
2- Maryam Al Lawati, Hadj Bourdoucen, Mohamed Ould-Khaou, Osama M. Rehman; "Performance Evaluation of Broadcast Beacons in VANETs over Road Intersections and Roundabouts", 2nd Global Conference on Computer Science, Software, Networks and Engineering, İzmir, Kuşadası, Turkey, 06-08 November 2014.
3- Osama M. Hussain Rehman, Hadj Bourdoucen, Mohamed Ould-Khaoua; "Improving Reachability of Multi-Hop Alert Messages Dissemination in VANETs", International Conference on ICT Convergence (ICTC 2014), Oct. 22-24, Busan, Korea. Awarded as best paper.
4- Osama M. Hussain Rehman, Hadj Bourdoucen, Mohamed Ould-Khaoua; "Relay selection for alert messaging in vanets based on bi-directional stable communication approach ", International Conference on Computing, Communication and Networking Technologies (ICCCNT), 11-13 July 2014, Hefei, China, DOI: 10.1109/ICCCNT.2014.6963052, IEEE, pp 1-7.
5- Rehman O. M., Bourdoucen H. ; Mohamed Ould-Khaoua, "Single-hop Distributed Relay Nodes Selection for Alert Messages Dissemination in VANETs", IEEE INFOCOM 2013, Turin, Italy.
6- Rehman O. M., Bourdoucen H. ; Mohamed Ould-Khaoua, "Efficient Alert Messages Dissemination in VANETs using Single Hop Distributed Protocols", WMNC'2013, Dubai, April 23-25, 2013.
7- Rehman O. M., Bourdoucen H. ; Mohamed Ould-Khaoua, "Impact of NS-2 as FOSS Simulation Tool for Research in Vehicular Ad-hoc Networks", Free & Open Source Software Conference (FOSSC-13), pp. 34 - 38, Muscat - Oman, 2013.
8- Tarhuni N., Elmusrati M., Bourdoucen H. , Al-Lawati A., "Optical Polarization Code Division Multiple Access", ICECE 2013, Benghazi, Libya, March 26 through 28, 2013.

HONORS AND AWARDS
 1999 IEEE Senior Member Award, Sultan Qaboos University
 1995 & 1997, Best Teacher Award, INELEC, ALGERIA.
 1993 Outstanding Achievement Award by Minister of Higher Education, Algeria.
 1987 Graduation Ph.D. with honors, Ecole Central de Lyon, France.
 1983 Top Student Award, INELEC, ALGERIA

INSTITUTIONAL AND PROFESSIONAL SERVICES

Professional International Activities:
 Chair, Free & Open Source Software Conference (FOSSC-Oman' , 2013 and 2015), General Program and Organization Chair ICCP 2007 and 2009, General Co-chair, WOCN 2004, IEEE Conference on Wireless and Optical Networking, Muscat,2014. Program Co chair, NetCon 2003, IFIP & IEEE Conference on Security, Mobility and QoS, Muscat, October 2003. General Program chair, ICCCP 2005, on Communications, Computer and Power, Muscat, February 2005. Scientific & Organizing Committee of ICCCP 2001 & ICCCP 1998 On Communications, Computer and Power, Muscat, December 2001 and 1998. Associate Editor (Computer Engineering), the Journal of Engineering Research (TJER). Editorial member and Reviewer for a number of International journals / conferences.

Institutional Service Activities:
 SQU: Committees (Editor In Chief TJER, Executive, Promotion, College Board, Strategic Planning, Appointment, Accreditation, Student-Staff liaison, Advisor of Engineering Society, College Graduate Studies, Seminars Coordinator, Web , Senior project, Academic advisor, others…).
 INELEC: Pedagogy council, Research and Graduate Studies Committee, Student staff liaison committee, Advisory board for Undergraduate studies, Chair: Research Auditing Board for microelectronics.
 HB University of Science & Technology: University Equipment committee, Member of faculty board, Advisory board for Undergraduate studies.