

## د. فرج مصطفى الصلابي

### المعلومات الشخصية

أستاذ مشارك في تقنية المعلومات، هندسة شبكات الكمبيوتر والاتصالات  
كلية تقنية المعلومات، جامعة الإمارات العربية المتحدة  
العين، الإمارات العربية المتحدة  
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تاريخ ومكان الولادة: 15 يونيو 1965 ، بنغازي ، ليبيا

### خلاصة المؤهلات

- أملاك المعرفة الضرورية لتقديم الحلول الأكاديمية والحلول التقنية.
- متحصل على شهادة في التخطيط الاستراتيجي، مركز التعليم المستمر، الإمارات العربية المتحدة، 19-23 فبراير، 2012.
- متحصل على شهادة في قيادة فريق العمل، مركز التعليم المستمر، الإمارات العربية المتحدة، 3-6 أكتوبر، 2011.
- 10 سنوات خبرة في التدريس الجامعي في نطاق واسع من المواضيع مثل هندسة الكمبيوتر، شبكات الكمبيوتر، الشبكات اللاسلكية، نظم التشغيل، النظم الموزعة، الحوسبة النقال، التجارة الإلكترونية، أنظمة المعلومات في مجال الأعمال، إدارة المشروعات، ولغات البرمجة.
- 10 سنوات خبرة عملية في مجال تقنية المعلومات والاتصالات والبنية التحتية للاتصالات.
- أكثر من 14 سنة من الخبرة البحثية في جودة الخدمة للشبكات السلكية واللاسلكية، وبروتوكولات الشبكات، شبكات الاستشعار اللاسلكية، وأنظمة الوقت الحقيقي المدمجة.
- إدارة عدة مشروعات الصغيرة إلى المتوسطة الممولة من قبل جامعة الإمارات العربية المتحدة.
- متحصل على جائزة الخدمة المتميزة، كلية تقنية المعلومات، جامعة الإمارات العربية المتحدة، عام 2011.
- متحصل على جائزة سيسكو للتميز في مجال البحث العلمي عام 2006 ، وذلك تقديراً للمساهمات العلمية في مجال جودة خدمة شبكات الكمبيوتر.
- خبرة في تطوير المناهج الدراسية الجامعية.
- مهارات التواصل مع الآخرين، العمل الجماعي، قيادة فريق العمل ، وإدارة فريق العمل.
- أملاك مهارات وتقنيات عدة في لغات البرمجة، تطوير شبكات الكمبيوتر، التجارة الإلكترونية، نظم التشغيل، تقنيات الشبكات السلكية واللاسلكية.
- نشرت 8 ورقات في مجلات متعددة و 29 ورقة بحثية في مؤتمرات متعددة، وانتاج عدد 2 تطبيقات الهاتف المحمول.

### الشهادات العلمية

- 1996-2001: دكتوراة، هندسة كهربائية وهندسة كمبيوتر ، جامعة أوتاوا ، أوتاوا ، كندا.
- 1992-1995: ماجستير، هندسة كهربائية والإلكترونية ، جامعة قاريونس ، بنغازي ، ليبيا.
- 1984-1987: بكالوريوس ، هندسة كهربائية والإلكترونية ، جامعة قاريونس ، بنغازي ، ليبيا.

### الخبرة العملية

- 2008 إلى الوقت الحاضر: أستاذ مشارك ، كلية تقنية المعلومات، جامعة الإمارات، العين، الإمارات العربية المتحدة .
- 2002-2008: أستاذ مساعد ، كلية تقنية المعلومات، جامعة الإمارات، العين، الإمارات العربية المتحدة .
- 2001-2002: باحث ومطور خدمات الجيل الثالث، شركة SigPro ، أوتاوا، كندا. SigPro شركة تتولى وضع وتنفيذ البرامج والكيان المادي لأجهزة الجيل الثالث المحمولة. وكان لي دور أساسي في التنسيق بين فريق تنفيذ البرامج وفريق الكيان المادي في دمج عملهما معاً، وإجراء البحوث والتطوير في مجال خوارزميات متقدمة للشبكات اللاسلكية.
- 1997-2001: معيد ومساعد باحث في مختبر أبحاث اتصالات الوسائط المتعددة ، قسم الهندسة الكهربائية وهندسة الكمبيوتر، جامعة أوتاوا، كندا.
- 1990-1994: مهندس استشاري اتصالات وكهرباء، مكتب العمارة للاستشارات الهندسية ، بنغازي، ليبيا. الأشراف على تنفيذ مشاريع البنية التحتية لشبكات الكهرباء، الهاتف الثابت والكمبيوتر.
- 1988-1990: مهندس اتصالات ، شركة الكهرباء، بنغازي، ليبيا. تشغيل وصيانة شبكات الاتصالات.

# Farang M. Sallabi, Ph.D.

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## Personal Information

Associate Professor of Network Engineering  
Faculty of Information Technology  
United Arab Emirates University  
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Date & Place of birth: June 15, 1965, Benghazi, Libya

## Qualifications Synopsis

- Have the necessary knowledge to deliver quality academics and technical solutions.
- 10 years university teaching experience in a wide scope of subjects such as computer architecture, computer networks, wireless networks, operating systems, distributed systems, mobile computing, mobile commerce, information in business, project management, and programming languages.
- 10 years industrial experience in information communications technology (ICT) and telecommunications infrastructure.
- 14+ years research experience in quality of service of wireline and wireless networks, routing protocols, Ad-Hoc routing, wireless sensor networks, and real-time embedded systems.
- Managed several small to medium research, development and implementation projects funded by the UAE University.
- Faculty of Information Technology, UAE University, Outstanding Service Award, 2011.
- The 2006 Cisco Research Excellence Award; In recognition of my significant contributions in the field of wireless and wired network quality of service.
- Experience in curriculum development.
- Solid interpersonal communication skills, team work, team leadership, and team management.
- Quick learner, motivated, and works well under pressure.
- Have several skills and technologies in programming languages, web development, mobile programming, e-commerce, m-commerce, operating systems, wired, wireless network technologies, and simulation tools.
- Published 8 journal papers and 29 conference papers and developed two mobile applications products.

## Education

- **1996-2001:** Ph.D., Electrical and Computer Engineering, University of Ottawa, Ottawa, Canada.
- **1992-1995:** M.Sc., Electrical and Electronic Engineering, Garyounis University, Benghazi, Libya.
- **1984-1987:** B.Sc., Electrical and Electronic Engineering, Garyounis University, Benghazi, Libya.

## Work History

- **2008-present:** Associate Professor, Faculty of Information Technology, UAE University, Al-Ain, UAE.
- **2002-2008:** Assistant Professor, Faculty of Information Technology, UAE University, Al-Ain, UAE.
- **2001-2002:** Network Protocols Researcher and Developer, SigPro Wireless Inc. Ottawa, Canada. SigPro Wireless is a company that develops and implements software and hardware for 3G hand-held devices. My main role was guiding the software and hardware teams in integrating their work together, and conducting research and development on advanced algorithms for wireless networks.

- **1997-2001:** Teaching and Research Assistant, Electrical and Computer Engineering Dept. University of Ottawa, Ottawa, Canada. Research assistant in the Multimedia and Mobile Agent Research Laboratory. Research involves end-to-end quality of service guarantee for multimedia applications in the Internet.
- **1990-1994:** Consultant Engineer, Al-Emarra Office for Engineering Consultant, Benghazi, Libya. Consultations and supervision of electric, telephone and computer network infrastructure design and installation projects.
- **1988-1990:** Communications Engineer, General Electric Company, Benghazi, Libya. Operation and maintenance of PLC (Power Line Carrier) network.

## Languages

- Arabic: Fluent in reading, writing and listening.
- English: Fluent in reading, writing and listening.

## Professional Development and Activities

- Coordinator of Graduation Projects Unit, Faculty of Information Technology, UAE University, 2009-Present.
- Chair of the Teaching committee, Faculty of Information Technology, UAE University, 2011.
- Certificate in strategic planning, Continuing Education Center, 19-23 February, Al Ain, UAE, 2012.
- Delivered a workshop on "Teaching Effectiveness," University of Benghazi, Libya, 26-27 December 2011.
- Attended a workshop on Inquiry-Based Learning, University College, UAE University, 28-29 November 2011. Delivered by Professor Michael Krenn, a professor of History at the Appalachian State University, USA.
- Certificate in team leadership, Continuing Education Center, 3-6 October, Al Ain, UAE, 2011.
- Organized and chaired the program committee of the sixth innovations conference, Abu Dhabi, UAE, 2011.
- Attended a seminar on Quality Assurance and Program Evaluation, organized by the office of Vice Provost for Undergraduate Education and Dean of the University College, February 2010.
  - Student Quality Assurance in Higher Education, by Dr. Gary Ingersoll, Dean of faculty of Education.
  - Program Evaluation: Qualification Frameworks, by Dr. Donald Baker, Dean of Faculty of Humanities and Social Science.
- Attended a faculty workshop II on Enhancing Critical Thinking in the Classroom organized by CHSS Committee on Effective Teaching (CET) & Faculty of Information Technology (CIT), December 2007.
- Organized and chaired the program committee of the fourth Innovations conference, Dubai, UAE, 2007.
- Attended a workshop on writing course outcomes and objectives and doing the assessment, organized by CIT and delivered by Dr. Ali Nazmi, April 2006.
- Attended a one-day workshop on interactive learning (WACE Learning System) hosted by UAE University on December 2003.
- Attended the CCNA-1 and CCNA-2 courses and passed the CISCO online exams.
- Attended four workshops delivered by IBM company:
  - Web Sphere Device Developer (WSDD) and J2ME
  - Enterprise java beans
  - Web Sphere Portal
  - Web Services

## Honors and Award

- Faculty of Information Technology, UAE University, Outstanding Service Award, 2011.
- UAE University Merit Award for Exceptional Service, April, 2007.
- Certificate of appreciation by the M.Sc. in Remote Sensing and GIS Program graduates in Honor and Recognition of outstanding support and providing valuable knowledge to the students, 2007.
- Certificate of Recognition by the National Mobile Application Contest Steering Committee for the participation in the steering committee, 2007.
- The 2006 Cisco Research Excellence Award; In recognition of my significant contributions in the field of network quality of service.

- UAE University Salary increase for Exceptional Service, December, 2006.
- UAE University bonus payment for Exceptional Service, June, 2006.
- Certificate of Recognition by the National Mobile Application Contest Steering Committee for the participation in the steering committee, 2006.
- Certificate of Recognition by IIT 2006 for contribution to the Third International Conference on Innovations in Information Technology, Dubai, 2006.
- Certificate of Recognition by the UAE University for the participation at the Environment Conference and Exhibition 2005.
- Certificate of Recognition by the Faculty of Information Technology Association (CITA) for supporting CITA activities, May 2005.
- Certificate of Recognition by the Faculty of Information Technology Association (CITA) for giving tutorial session as part of CITA activities, June 2004.
- Certificate of Recognition by the Faculty of Information Technology for the participation of organizing the Second Programming Contest, December 2002.

## Industrial Projects

- June 2005–2008: “Dynamic Location Based Services Project”, Faculty of Information Technology, UAE Univ.
  - The Dynamic Location Based Service (DLBS) application allows mobile phone users to locate active nearby businesses, service centers, hotels, restaurants, car parks, etc. The DLBS application consists of front-end, back-end and service providers’ portal. Mobile users use the front-end to send DLBS request to back-end that replies with the Point of Interests (POIs) as requested by the users. Service providers need to access the back-end server to add or update their services. My role in this project is to develop and implement the front-end applications.
- September 2004 – 2006: “Telematics Smart Box Project”, a 2.3 million Euro joint project with IBM Germany Engineering & Technology Services.
  - This box is similar to the so-called black box found in aircraft, which can capture, analyze and deliver relevant data via a wireless network. The device, using multiple microprocessors based on Power Architecture, plus a multitude of other sensors, could be attached to the automobile's carriage to, for example, monitor the vehicle's speed, comparing it to the speed limit of the street. My main tasks in this project are research and development, and technology transfer.

## Interdisciplinary Projects (UAE University Grants)

- Intelligent Monitoring and Control for Electrical Power Research, November 01, 2010 to December 31, 2012.
- Joint research project with the Faculty of Food and Agriculture, Deploying wireless sensor network in greenhouse for Improving Greenhouses Functionality in summer under UAE Conditions, January 2011 to January 2012.
- Interdisciplinary Research Project no.1432-06-02-10, “Surveillance of Poultry Production Units in UAE for Better Bio-security”, 2010. My role in the project is:
  - Modifying the developing an electronic documentation system for poultry production activities for each production unit in the farm using a PDA to store and send the information to the central server (database).
  - Supervising programming of front-end, back-end and GIS map interface with the database
  - Testing the developed system
- Interdisciplinary Research Project, “Development and Acceptance of Dynamic Location Based Service Technology”, Jan. 2006-2010, UAE University. My main contribution is the implementation of Dynamic Location Based Service (DLBS) application on the mobile phone.

## Individual Projects (UAE University Grants)

- Jan. 2006-2008: “QoS Evaluation of In-Vehicle Telematics System – UAE Case Study”, Principal Investigator, UAE University individual research project.
- Jan. 2006-2010: “Applying Mobile Computing Technology in Traceability of Poultry Production”, Co-Investigator, UAE University individual research project. The contribution to this project is to design and implement the end-to-end mobile application for the poultry production traceability system.
- Feb. 2005-Feb. 2006: "Performance Evaluation of Deploying Ad Hoc Wireless Network in Jimi II Campus ", Principal Investigator, UAE University individual research project. In this research project we evaluate the performance of Ad Hoc wireless network in an indoor and outdoor environment. Jimi II campus of UAEU will be used as the testing site for this work. The testbed consists of around 10 laptops equipped with wireless radio LAN interface that implements IEEE 802.11. We evaluate the performance from the point of view of routing, signal strength, quality of service, and the coexistence of Ad Hoc with infrastructure wireless LAN.
- January 2004-March 2005: “Context Transfer for Mobile Users and Multimedia Applications in Wireless Networks”, Co-investigator, UAE University individual research project. In this research, we investigated the problem of context transfer and dynamic quality of service provisioning in the context of mobile and wireless environment. My contribution was to provide the simulation program, and ran some simulation scenarios.
- June 2003-June 2005: “Performance and Simulation Modeling of UAE University Campus Computer Network”, Co-investigator, UAEU individual research project.
  - In this work, we simulated the UAEU campus network using OPNET to monitor its performance and suggest future enhancement, and studied the possibility of improving the quality of service for multimedia applications. My role was to help simulating the network using OPNET and develop algorithms for quality of service.
- Jan. 2003-March 2004: "Connection Setup for Multimedia Applications in Wireless Networks", Principal Investigator, UAEU individual research project. In this research project, we presented an end-to-end quality of service architecture for multimedia applications in wireless cellular networks. Radio resource management algorithms were studied, and then presented enhanced algorithms that fulfilled the QoS needs of multimedia applications.
- Jan. 2003-March 2004: "Building More Reliable and Scalable Networks", Co-investigator, UAEU individual research project. My contribution to this project is to provide software to build a quality of service paths.

## Journal Papers

1. F. Sallabi, A. Karmouch, “Network Domain Agency for QoS Management in OSPF Configured Networks”, Networking and Information Systems Journal, No. 3, 2000.
2. Sallabi, Ahmed Karmouch and Khaled Shuaib "Design and Implementation of a Network Domain Agency For Scaleable QoS in the Internet", Computer Communications Journal, Elsevier Science, vol 28/1, pp 12-24, Feb. 2005.
3. Khaled Shuaib, Abderrahmane Lakas and Farag Sallabi, “Smoothing and Transporting Video in QoS IP Networks”, The International Journal of Communication Systems, Wiley Inter-Science, vol 19, issue 7, 2005, pp 775-794.
4. F. Sallabi, K. Shuaib and M. Shafique, “Quality of Service Provisioning for UMTS Network Users with Immediate and Advance Radio Resource Reservation”, Journal of the Franklin Institute 343 (2006) 468-479.
5. Khaled Shuaib, Maryam Alnuaimi, Mohamed Boulmalf, Imad Jawhar, Farag Sallabi and Abderrahmane Lakas, “Performance Evaluation of IEEE 802.15.4: Experimental and Simulation Results”, Journal of Communications, VOL. 2, NO. 4, June 2007.
6. Khaled Shuaib and Farag Sallabi, “Extending Link State IGPs for Load Management in MPLS Networks”, The International Journal on Computers and Their Applications, Vol 15, issue 2, June 2008, pp 124-136.
7. Farag Sallabi, Moustafa Fadel, Ahmed Hussein, Ahmad Jaffar and Hazem El Khatib, Design and implementation of an electronic mobile poultry production documentation system, Journal of Computers and Electronics in Agriculture, Elsevier, Available online February 17 2011.
8. Khaled Shuaib, Farag Sallabi and Liren Zhang, Smoothing and Modeling of Video Transmission Rates over a QoS Network with Limited Bandwidth Connections, Accepted for publication in the International Journal of Computer Networks & Communications (IJCNC), Notification of acceptance on March 15, 2011.

9. Farag Sallabi, Khaled Shuaib, QoS Analysis and Resource Allocation Scheme for LTE Network, Submitted to annals of telecommunications, Springer, October 2011.
10. F. M. Sallabi, A. M. Gaouda, A. H. El-Hag. And M.M.A. Salama, Evaluation of ZigBee Wireless Sensor Networks Under High Power Disturbances, Submitted to IEEE Transactions on Power Delivery, December 2011.

## Conferences Papers

1. F. Sallabi, A. Karmouch, "New Resource Reservation Architecture with User Interactions" Proceedings of IEEE Pacific Rim Conference on Communications, Computer and Signal Processing, August 22-24, 1999, Victoria, B.C, Canada.
2. F. Sallabi, A. Karmouch, "Immediate and Advance Resource Reservations Architecture with Quality of Service Routing Agents" Proceedings of Multimedia Modeling (MMM'99), October 4-6, 1999, Ottawa, Canada.
3. F. Sallabi, A. Karmouch, " Quality of Service Routing Agents for Supporting Immediate and Advance Resource Reservations " Proceedings of the 3<sup>rd</sup> Canadian Conference on Broadband Research, November 7-9, 1999, Ottawa, Canada.
4. F. Sallabi, A. Karmouch, "Resource Reservation Admission Control Algorithm with User Interactions " Proceedings of the Globecom'99, December 5-9, 1999, Rio de Janeiro, Brazil.
5. F. Sallabi, A. Karmouch, "Mobile Network Domain Agency for Managing Network Resources" Proceedings of Second International Workshop on Mobile Agents for Telecommunication Applications (mata'00), September 18-20, 2000, Paris, France.
6. Khaled Shuaib, Farag Sallabi, and Andrew Brooks, "Multi-area OSPF Network Design Considerations" presented at the IASTED International Conference on Wireless and Optical Communications (WOC 2003), July 14 to July 16, 2003, in Banff, Canada
7. Khaled Shuaib, Farag Sallabi, "Performance Evaluation of Rate Adaptive Shapers in Transporting MPEG Video over Differentiated Service Networks" Proceeding of the IASTED conference on "Communications, Internet and Information Technology"(CIIT 2003), Nov. 17-19, Arizona, USA..
8. F. Sallabi, K. Shuaib, M. Shafique, "System Level Simulator for Studying Radio Resources Management Algorithms for UMTS Networks", Proceedings of the 5<sup>th</sup> Annual Research Conference, Al Ain, United Arab Emirates, 25 – 7 , April 2004.
9. Shakil Akhtar, Khaled Shuaib, Hashir Kidwai, Farag Sallabi and Mohammed Javeed, "A Framework for the Simulation of UAE University Campus Computer Network", Proceedings of the 5<sup>th</sup> Annual Research Conference, Al Ain, United Arab Emirates, 25 – 7 , April 2004.
10. Khaled Shuaib, Farag Sallabi and Kamal Zellag, "Building Reliable and Scalable Networks", Proceedings of the 5<sup>th</sup> Annual Research Conference, Al Ain, United Arab Emirates, 25 – 7 , April 2004
11. F. Sallabi, K. Shuaib and M. Shafique, "Performance Evaluation of Immediate and Advanced Radio Resource Reservation for UMTS Networks", Proceeding of ICMSAO'05 First International Conference on Modeling, Simulation, and Applied Optimization, American University of Sharjah, Sharjah, and UAE on February the 1st, 2005.
12. F. Sallabi, A. Lakas, M. Boulmalf and K. Shuaib "WCDMA Downlink Simulator with Efficient Wrap-Around Technique", Proceeding of the Second IEEE, IFIP International Conference on Wireless and Optical Communication Networks, WOCN 2005, Dubai, March 6-9, 2005.
13. K. Shuaib, M. Boulmalf, F. Sallabi and A. Lakas, "Performance Analysis: Co-existence of IEEE 802.11g with Bluetooth", Proceeding of the Second IEEE, IFIP International Conference on Wireless and Optical Communication Networks, WOCN 2005, Dubai, March 6-9, 2005.
14. K. Shuaib and F. Sallabi, "Extending OSPF for Large Scale MPLS Networks," Proceeding of the 25th IEEE Sarnoff Symposium, Princeton, New Jersey, USA, April 18-19, 2005.
15. Lakas, H. El-Sayed and Farag Sallabi, "Proactive QoS Provisioning in Wireless Networks", The 6<sup>th</sup> Annual Research Conference, April 24-26, 2005, Al Ain, United Arab Emirates.
16. Lakas, F. Sallabi, M. Boulmalf, K. Shuaib and H. Elsayed, "A Proactive Resource Management in 3G Networks", the Seventh IFIP International Conference on Mobile and Wireless Communication Networks Marrakech, Morocco, 19-21 September 2005.
17. K. Shuaib, M. Boulmalf, F. Sallabi and A. Lakas, "Co-existence of Zigbee and WLAN, A Performance Study" Proceeding of the IEEE Wireless Telecommunications Symposium (WTS) 2006, Pomona, CA, April 27-29, 2006.

18. F. Sallabi, M. Hayajneh, W. Ibrahim, "QoS Issues in OFDMA Based Wireless Networks", The Second International Conference on Modeling, Simulation, and Applied Optimization, Abu Dhabi, UAE, March 24-27, 2007
19. H. Khatib, F. Sallabi, "A Framework for Dynamic Location-Based Services via Web Services", International Conference on Enterprise Information Systems and Web Technologies, Orlando, FL, SA, July 9-12, 2007.
20. F. Sallabi and H. Khatib, "QoS Evaluation of In-Vehicle Telematics System", Proceedings of the 9th Annual Research Conference, Al Ain, United Arab Emirates, 21– 23 , April 2008.
21. M. Fadel, A. Hussein, F. Sallabi, A. Jaffar and H. El Khatib," Applying Mobile Computing Technology in Traceability of a Poultry Production System", 2008 ASABE Annual International Meeting, Providence, Rhode Island, USA, June 29 – July 2, 2008.
22. Farag Sallabi and Khaled Shuaib, "Downlink Call Admission Control Algorithm with Look-Ahead Calls for 3GPP LTE Mobile Networks", IWCMC'09, June 21–24, 2009, Leipzig, Germany.
23. Farag Sallabi, George Ditsa, Ezedin Barka, and Hazem Al Khatib, "Business Model for Emerging Real-Time Location-Based Services: A Technical Perspective," Proceeding of the International Conference on Wireless Information Networks and Systems (WINSYS 2010), July 26-28, 2010, Athens, Greece.
24. Shuaib, K.; Sallabi, F. "Smoothing of video transmission rates for an LTE network," IEEE 6th International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob), October 11-13, 2010, Niagara Falls, ON, Canada.
25. Farag Sallabi and Khaled Shuaib, "Modeling of Downlink Wireless Fading Channel for 3GPP LTE Cellular System," The 6th IEEE-GCC Conference and Exhibition for Sustainable Ubiquitous technology, February 19-22, 2011, Dubai, UAE.
26. Farag Sallabi, Ali Abu Odeh, and Khaled Shuaib, "Performance Evaluation of Deploying Wireless Sensor Networks in a Highly Dynamic WLAN and a Highly Populated Indoor Environment," The 7th International Wireless Communications and Mobile Computing Conference (IWCMC-2011), July 5-8, 2011, Istanbul, Turkey.
27. Mariam AlNuaimi, Farag Sallabi and Khaled Shuaib, "A Survey of Wireless Multimedia Sensor Networks Challenges and Solutions," The 7th International Conference on Innovations in Information Technology, April 25-27, 2011, Abu Dhabi, UAE.
28. A. M. Gaouda, Farag Sallabi, A. H. El-Hag and M.M.A. Salama, "Zigbee Performance During Sever Interruptions in Electric Power Systems," 11th International Conference in Electrical Power Quality and Utilization, October 17-19, 2011, Lisbon, Portugal.
29. E. Barka, F. Sallabi, and A. Hosani, "Managing Access and Usage Controls in SNMP," Computers, Communications and IT Applications Conference (COMCOMAP 2012), January 11-13, 2012, Hong Kong, China.