

Dr. Akila Sarirete

Dean, College of Engineering and Assistant Professor, Computer Science Department

Effat University

asarirete@effatuniversity.edu.sa

+(966) 50 465 0299

EDUCATION

- 2011** Ecole National Supérieure d'Informatique (ex I.N.I), Algiers, Algeria
PhD in Computer Science, specialization: Knowledge Management and e-learning
- 2004** Cisco Certified Network Associate (Cisco Systems) Diploma
- 1997** Dept. of Computer Science, University of Montreal, Montreal Canada
Graduate studies
- 1992** University of Quebec at Montreal in collaboration with Institut National d'Informatique, Algeria
M Sc. Computer Science
- 1988** Institut National d'Informatique, Algeria
Bachelor in Computer Science, Specialization in Computer Systems

WORK EXPERIENCE

- Aug. 2017 to Present** Assistant Professor, Computer Science Dept. and Dean of Graduate Studies and Research, Effat University, Jeddah, KSA
- Aug. 2014 to July 2017** Assistant Professor, Dean College of Engineering, Effat University, Jeddah, KSA
- November 2013 to July 2014** Assistant Professor, Dean College of Engineering, Chair of the Computer Science Department
Effat University, Jeddah, KSA
- Aug. 2011 to October 2013** Assistant Professor, Chair of the Computer Science Department and Acting Chair of Information Systems Department
Effat University, Jeddah, KSA
- Feb. 2011 to Aug. 2011** Assistant Professor and Cisco Regional Academy Coordinator
Effat University, Jeddah, KSA
- Sept. 2002 to Jan. 2011** Lecturer and Cisco Regional Academy Coordinator
Effat University, Jeddah, KSA
- Feb. 2000 to Aug. 2002** Senior Technical Consultant- Member Technical Staff,
Peregrine Systems, Concord, CA and Inovis Systems, Dallas, Texas, USA
- Oct. 1997 to Feb. 2000** Senior Software Engineer
Harbinger Corp., Concord CA, and Peregrine Systems, San Diego, CA,
USA

**Sept. 1992 to
Sept. 1997** Research Assistant and Teaching Assistant
University of Montreal, Montreal, Quebec, Canada
and Purchase Master Inc., Montreal

**Mar. 1990 to
Apr. 1992** Research Assistant
Tandem Corp. and University of Quebec in Montreal, Canada

AWARDS

May 2013 Best Community Service Contribution for 2012-2103, EECSI, Effat University

March 2009 Best Regional Instructor for the Cisco Networking Academy for the year 2009 (Middle
east, North Africa, and the Pakistan Region)

December 2008 Best Award Paper, EACP Conference
Tlemcen, Algeria

June 2008 Scholarship from PROLEARN - PALETTE JOINT SUMMER SCHOOL 2008,
Macedonia, Europe

October 2007 Paper Presentation Scholarship from ACM (Association for Computing Machinery)
Richard Tapia 2007 conference – Celebrating Diversity in Computing - Florida , USA

1989- 1992 Scholarship from High Ministry of Education and Research, Algeria
and International Canadian Agency for Development
M Sc. Computer Science

RESEARCH INTERESTS

- Knowledge Management
- Communities of Practice
- E-learning
- Service Oriented Architectures
- Data Mining and Information Retrieval
- Cloud Computing

QUALIFICATIONS

- Extensive background in education (more than 119 years): teaching, training, supervising, preparing and presenting technical work in national and international conferences.
- Extensive background in software development (more than 10 years)
- Extensive experience in leading accreditation process (national and international) (since 2007)
- Advise/help/register students
- Participate in several university committee activities.
- Active member in the community
- Broad knowledge of and experience using computer systems and technologies, Operating Systems, Database. Microsoft applications and other computer tools.
- Organization of scientific international conferences
- Participated as a judge of the work of others

- Published more than 20 articles in scientific journals and international conferences

MANAGEMENT

- Strong experience in administration of personnel functions, training, and performance evaluation
- Ability to work across organizational boundaries
- Organized, creative, team work, good problem solving skills, and highly motivated/goal-oriented
- Proficiency in writing software documents and presenting technical activities
- Excellent oral and written communication skills
- Strong decision-making and organizational skills
- Committee organizer for International Conferences
- Good communicator, self-starter and excellent team-builder

MEMBERSHIP

- Member of ACM since September 1992.
- Senior Member of IEEE since January 2007.
- Chair of the IEEE Computer Society, Region 8 – Western Region of Saudi Arabia since May 2012
- Member of CpSquare (Community on Community of Practices) (2007- 2012).
- Member of Product Review Team in Cisco Systems (2006 – 2011) .
- Member of Packet Tracer Software Quality Assurance Team in Cisco Systems (2006 – 2011).

MAJOR CONTRIBUTIONS

- Main Leader for the ABET accreditation for the College of Engineering (three programs: Computer Science, Information Systems and Electrical and Computer Engineering) (2013-2017), Effat University
- Main contributor for the Self Study report for the Computer Science Program (NCAAA CS Program Re-accreditation 2014-2017) , Effat University
- Main coordinator for the Information Systems Program Self Study (NCAAA IS Program Accreditation in 2012-2013) , Effat University
- Conference Chair, Learning and Technology Conference, Effat University, 2015-2017
- Project Manager, Learning and Technology Conference, Effat University, 2012
- Program Chair, Learning and Technology Conference, Effat University, 2011
- Contributed in the translation from English to Arabic of the Cisco Business Entrepreneur Curriculum (Passport 21) (October – December 2011).
- Editorial Member of the International Journal of knowledge Research Society (IJKSR) since 2010.
- Major contributor in the curriculum development of the Computer Science Program (2011-2013).
- Contributed in the Accreditation review of the Computer Science Program since 2010.
- Contributed in training several instructors in the Kingdom of Saudi Arabia on the Cisco Networking Curriculum.
- Contributed in the Design Effat College/University Networking Diploma Spring 2005 and introduction of the Cisco curriculum into the Networking courses.
- Involved in the program review board of Cisco CCNA and IT essentials curricula since 2007.

- Reviewed conference papers for “International Conference on Engineering Education, Instructional Technology, Assessment, and E-learning (EIAE 07)”, 2007.
- Involved in the training of faculty members with Blackboard system. Starting Fall 2003.
- Major contribution in the development of B2B commercial software for Peregrine System Corp.
- Major contribution in Financial Electronic Data Interchange used by major Banks in USA (CheckFree Corporation, Melon Bank)
- Development of an Intelligent Interactive System for Decision-Making Help, Environment: Simula, C++ and Prolog under Sun Sparc Station with Unix, Dept. of Mathematics and Computer Science, University of Montreal.
- Development of an Expert System for Decision-Making, Environment: Progress Database System, C, Simula and Prolog, Purchase Master Science Company (Purchasing System), Montreal.
- Development of Object-Oriented Methods for Software Reuse, Meta-Modelling Process and Information Retrieval, Nortel Telecom, University of Montreal and University of Quebec at Montreal and IGLOO Research Group
- Contribution in Software Reuse Project: Reusing Existing Software Components, Environment: Simula and Prolog, C and SimDbm Database System, National Bank of Canada, University of Montreal and University of Quebec at Montreal.

LANGUAGE

- Fluent in English, French, Arabic, and Amazigh (Berber).

PUBLICATIONS

Journal Papers

1. Alhalabi, W., Bawazir, A., Mohammad, M., **Sarirete, A.** (2017) “Matching and Ranking Trustworthy Context-Dependent Universities: A Case Study of the King Abdullah Scholarship Program” International Journal on Semantic Web and Information Systems (IJSWIS). Vol 13, Issue 2. Pp: 109- 124, IGI Global
2. Alhalabi, W., Kitanneh, W., Alharbi, A., Balfakih, Z., **Sarirete, A.** “ Efficient solution for finding Hamilton cycles in undirected graphs ... - SpringerPlus, 2016
3. Brahimi, T., and **Sarirete, A.**, and Ibrahim, R. (2016) "The Impact of Accreditation on Student Learning Outcomes", International Journal of Knowledge Society Research (IJKSR), Vol (7), Issue(4)PP(51-62) - IGI Global
4. Alhalabi, W., Kitanneh, O., Alharbi, A., Balfagih, Z., and **Sarirete, A.**, (2016) “Efficient solution for finding Hamilton cycles in undirected graphs”, SpringerPlus (2016) 5: 1192.
5. Brahimi, T., and **Sarirete, A.**, (2015) “Learning outside the classroom through MOOCs”, Computers in Human Behavior, 2015 - Volume 51, Part B, October 2015, Pages 604–609
6. **Sarirete, A.**, and Brahimi, T. (2014) "Enabling communities of practice within MOOCs", Web and Open Access to Learning (ICWOAL), 2014 , Pages 1-4, Publisher: IEEE
7. Ibrahim, R., and **Sarirete, A.** (2014) “Student Development through student monitored projects and volunteerism: Effat University Case Study”, Online International Journal of Arts and Humanities, Volume 3, Issue 4, pp. 54-58; May, 2014
8. Ibrahim, R., and **Sarirete, A.** (2013) "Constructivist Approach applied to Leadership Learning: Life Immersion Learning Model", International Journal of Knowledge Society Research (IJKSR) Vol(4), Issue(4), pp (27-35) - IGI Global

9. Ibrahim, R. and **Sarirete, A.**, “Cascading Effat Ambassadors: the Utilization of the Cascade Model for Teaching Leadership Program”, Accepted for publication in International Journal of Knowledge and Learning.
10. **Sarirete, A.** (2011) “Enabling Knowledge Management Process in ICT through Communities of Practice”, IT Forum, IMAM University, 13-16 Sept 2011, Riyadh, KSA.
11. **Sarirete, A.**, Chikh, A., Noble, E., (2011) "Building a community memory in communities of practice of e-learning: A knowledge engineering approach", Journal of Workplace Learning, Vol. 23 Iss: 7, pp. 456 – 467 (ISSN: 1366-5626).
12. Ibrahim, R. and **Sarirete, A.**, (2011) “A constructivist approach to student development: Effat University case study”, Int. Journal of Technology Enhanced Learning, Inderscience Publishers, Vol. 3 Iss. 3, pp.
13. **Sarirete, A.** & Chikh, A. (2010) “A Knowledge Management Process in Communities of Practice of Engineering based on the SECI Model for Knowledge. [International Journal of Web-Based Learning and Teaching Technologies \(IJWLTT\)](#), Volume5 No. 1, 27-42 pp, 2010.
14. **Sarirete A.**, Noble E., Chikh A., (2009) “Knowledge and Learning Issues Related to Engineering Education: a Constructivist Approach”, International Journal of Teaching and Case Studies (IJTCS) volume 2, No.1.
15. **Sarirete, A.**, Noble, E. and Chikh, A., (2009) “Equilibrium pattern model for learning”, Int. J. Knowledge and Learning, model for learning”, Int. J. Knowledge and Learning, Int. Vol. 5, No. 2.
16. **Sarirete, A.**, Chikh, A. and A., Noble. “Ontology-based Community Memory in Communities of Practice of e-learning” Accepted for publication in International Journal of Technology Enhanced Learning. [under revision]
17. **Sarirete A.**, Chikh A., Berkani L. (2008) “Onto’CoPE: Ontology for Communities of Practice of E-Learning”. ECTEL 2008. [Lecture Notes in Computer Science](#). Springer-Verlag Berlin Heidelberg 2008, ISSN : 0302-9743 (Print) 1611-3349 (Online), Volume 5192/2008, 395-400 pp.

Conference Papers

1. Brahimi, T., and Sarirete, A., “Learning outside the classroom through MOOCs”, Learning and Technology Conference, 10-11 April 2015
2. Ibrahim, Rania and Sarirete, Akila (2012) “Life Immersion Learning Model: Towards Leadership Learning”. TECHEDUCA 2012 Conference. 4-6 July, Barcelona, Spain
3. Ibrahim, R. and Sarirete, A.(2011) “The Cascade Model in Higher Education: The Effat University Case” , TECH-EDUCA 2011 Conference, 17-19 May 2010, Corfu, Greece.
4. Ibrahim, R. and Sarirete, A.(2011) “The Utilization of the Cascade Model for the Ambassador Program: Effat University Case” ECE Conference (6th International Conference on Education in Changing Environment), Salford , England.
5. Ibrahim, R. and Sarirete, A. (2010) “Student Development in Higher Education: A Constructivist Approach” , TECH-EDUCA 2010 Conference, 18-19 May 2011, Athens, Greece.
6. Sarirete, A., Chikh, A. and A., Noble. (2009) “Capitalizing Knowledge in Communities of Practice of e-learning: Ontology-based Community Memory”. Proceeding of WSKS 2009: “Best Practices for the Knowledge Society. Knowledge, Learning, Development and Technology for All” Chania, Crete, Greece, September 16-18, 2009.
7. Sarirete A., Chikh A. (2008) “Knowledge Capitalization in the Communities of Practice of Engineering.” EACP’2008, International Workshop: “Learning Environments for Communities of Practice”, Tlemcen - Algeria, November 18th-20th, 2008, <http://palette.ercim.org/content/view/203/25/>.
8. Sarirete A., Costa C. (2008) ”Building and Sustaining Communities of Practice: A Humanware Approach”. EACP’2008, International Workshop: “Learning Environments for Communities of Practice”, Tlemcen - Algeria, November 18th-20th, 2008, <http://palette.ercim.org/content/view/203/25/>.
9. Sarirete, A., Noble, E., Chikh, A. (2008) “ Knowledge Management through the Equilibrium Pattern Model for Learning”. WSKS 2008. Under Press. Miltiadis D. Lytras and Patricia Ordonez De Pablos

(Eds.), Informatics and Knowledge Management for Governmental Consulting, Springer Post Conference Proceedings.

10. Sarirete A., Chikh A., Berkani L. (2008) "Onto'CoPE: Ontology for Communities of Practice of E-Learning". [ECTEL 2008](#). 3rd European Conference on Technology Enhanced Learning, Maastricht, The Netherlands, September 17, 2008.
11. Sarirete, A. (2008) "Knowledge Management in the Communities of Practice of e-Learning". [EC-TEL PROLEAN 2008](#) . [Ralf Klamma](#), [Denis Gillet](#), [TomazKlobucar](#), [Katherine Maillet](#) (Eds.): Proceedings of the 3rd EC-TEL 2008 PROLEARN Doctoral Consortium, held at the European Conference on Technology Enhanced Learning, Maastricht, The Netherlands, September 17, 2008. [CEUR Workshop Proceedings](#) 424 CEUR-WS.org 2008.
12. Chikh A., Berkani L., Sarirete A. (2008) "IMS-CLD: a new specification for learning scenarios in CoPEs". the fourth international conference on Web Information Systems and Technologies. WEBIST'2008. May 4-7 , 2008 - Funchal-Madeira – Portugal, <http://www.webist.org/>. [WEBIST \(1\) 2008](#): 422-427 .
13. Sarirete A., Chikh A. (2008) "Professional Development for Teachers - Through Communities of Practice". 6th Learning and Technology Symposium, April 26-27, 2008 Hilton Jeddah, Kingdom of Saudi Arabia <http://www.ffmpegcollege.edu.sa>.
14. Chikh A., Berkani L., Sarirete A. (2008) "Communities of Practice of E-learning "CoPE" – Definition and Concepts". IEEE, Publication Date: 19-20 April 2008, On page(s): 31-37, ISBN: 978-0-7695-3116-8, INSPEC Accession Number: 10025826, Digital Object Identifier: 10.1109/IWAISE.2008.13.
15. Chikh A., Berkani L., Sarirete A. (2008) "Communities of Practice of E-learning "CoPE" – Definition and Concepts". IWAISE 2008, International Workshop on Advanced Information Systems for Enterprises, April 19-20, 2008 - Constantine, Algeria. <http://www2.lifl.fr/iwaise08/> .
16. Chikh A., Berkani L., Sarirete A. (2007) "Modeling the communities of practice of e-learning – CoPEs". LINC 2007, The Fourth Annual Conference of Learning International Networks Consortium, October 28-30, 2007 - Amman, Jordan, <http://linc.mit.edu/conference/program.html>.
17. Sarirete, A. (2007) "Towards a Semantic Modeling of Learners in e-learning from Communities of Practice Perspective". [Richard Tapia Conference](#): Celebrating Diversity in Computing. October 14-17 (2007).
18. Balla A. & Sarirete, A. (2007) "Developing Educational Applications using Adaptive e-Learning Model" Magued Iskander (Ed.): Innovative Techniques in Instruction Technology, E-learning, E-assessment, and Education, Proceedings of the 2007 International Conference on Engineering Education, Instructional Technology, Assessment, and E-learning (EIAE 2007), part of the International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering (CISSE 2007), Bridgeport, CT, USA, December 3-12, 2007. Springer 2008, ISBN 978-1-4020-8738-7) pp. 13-18.
19. Akila Sarirete, Jean G. Vaucher: Similarity Measures for the Object Model. ECOOP Workshops 1997: 283-284