CURRICULUM VITAE

Ali A. Somaie

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2019

General:

- Coordinator, Software Engineering Program, Faculty of Engineering, ECU, 2018 - 2019
- Post-Doctoral Fellow Research Associate PDF, University of Calgary, Canada, 2005.
- Consultant Engineer – Communication Systems, Engineering Syndicate, Cairo, Egypt, 2006-Current
- Coordinator of students' conferences and exhibitions in UBT, Ministry of Education, KSA, 2014-2017
- Curriculum developer, University of Business and Technology UBT, Jeddah, KSA, 2015-2017
- Chairman of MIS department, CBA, UBT, Jeddah, 2014-2017
- Reviewer Board Member of the International Journal of Information and Education Technology IJIET, 2013.
- Program Chair for 1st International Conference, "Computer Science from Algorithms to Applications" JW Marriott, Mirage City, Cairo, 2009.
- Chairman of Research and Development Center, (2006 - 2008).

Education

- PDF Post-Doctoral Fellow Research Associate, University of Calgary, Department of Electrical and Computer Engineering, Alberta, Canada, 2005
- PhD, University of Bradford, Department of Electrical and Computer Engineering, Bradford, United Kingdom, 1996
- Master of Science MSC, MTC, Cairo, 1989
- Bachelor of Science BSC, MTC, Cairo, 1979

Objective: Computer Science

Professional Career Experience:

TEACHING: Computer Science Program

- Computer Programming I & II	- Computer Vision
- Object Oriented Programming	- Pattern Recognition
- Database Management Systems I & II	- Computer Graphics
- Computer Networks I & II	- Computer Animation
- Project Management	- System Analysis and Design
- Neural Networks	- Cryptography and Information Security

- Teaching in:
  - Egyptian Chinese University, Faculty of Engineering and Technology, Software Engineering Program, 2017 - 2019
  - University of Business and Technology UBT, College of Business Administration CBA, Master of Business Administration MBA, Jeddah, 2009-2017
  - Modern Academy for Computer Science and Management Technology, Computer Science Department, (2008-2009), Cairo.
  - University of Calgary, Department of Electrical and Computer Engineering, Calgary, Canada, 2005/2006.
  - Modern Academy for Computer Science and Management Technology, Computer Science Department, (Part Time, 2000-2009), Cairo.
  - Higher Technological Institute Tenth of Ramadan City, (Part Time, 1997-2000), Egypt.
  - Higher Industrial Institute of Baniswave, (Part Time, 1996-1997), Egypt
  - University of Bradford, (TA, 1992-1996), UK.

Training Courses

- Oracle Database Administration, Jeddah – EFFAT University, KSA, 2015
- Planning and implementation of a self-study for accreditation, NCAA, KSA, 2009
- Quality Assurance in Higher Education, United Arab Emirates, Abu Dhabi, 2009
- External Reviewer NQAACE, 2008
- Primavera Projects Planner (levels I & II), the American University, Cairo, 2004
- Egyptian Civil Aviation Regulation ECAR, Ministry of Egyptian Civil Aviation, 2002
- Data Management Systems and Data Analysis, US Navy, San Diego, California,1998
- Directional Finder Systems, Servo Company, New York, USA, 1982

Research Activities:

▪ Attendee International Conferences and Exhibitions:

- o The quality of administration planning and management, National Commission for Academic Accreditation & Assessment NCAAA Training programs 2012/2013, Riyadh, KSA, 22-23 December 2012.
- o 10th Biennial INQAAHE Conference, the Commission for Academic Accreditation, Abu Dhabi, United Arab Emirates, 30th March – 2nd April, 2009.
- o A visit to China Electronics Technology Group Corporation (CETC), Beijing, China, 19-28/1/2007.
- o The Night Vision Conference/Exhibition, Washington DC, 27/9-4/10/2004.
- o The Aviation and satellite conference/Exhibition, Beijing, China, 13-17/11/2002.
- o The Aviation and satellite conference/Exhibition, Berlin, Germany, 6-12/5/2002.
- o CIE International Conference on Radar, Xidian University, Beijing, China, 12-18/10/2001.
- o The Lunching of Spot-5 Conference/Exhibition, Toulouse, France, 13-17/6/2001.
- o A visit to ENERGIA SATELLITE COMPANY and KRASSNOGORSKY ZENIT, Moscow, Russia, 23/3-3/4/2000.
- o International AMSE Conference, Information Processing, New Orleans USA, November 1994.

▪ Books:

- Networking and Information Security, AA Somaie, Copyright 2008 by Modern Academy for Computer Science and Management Technology, Cairo, Egypt.
- Distributed Systems, AA Somaie, Copyright 2008 by Modern Academy for Computer Science and Management Technology, Cairo, Egypt.

▪ Seminars:

- Software Engineering	- Project Management
- Telecommunication and Computer Networking	- Entrepreneurship and Technology Transfer
- Management Information Systems	- Machine Vision
- Systems Analysis and Design	- Cryptography and Information Security

▪ Published Articles:

1. AA Somaie, Rawan-Alrasheed, Alanoud Alharthy, International Conference on Business, Economics, and Social Science and Humanities, "Using Database Management System to Improve Business Performance and Decision Making", Academic Fora, Rihga Royal Hotel, Osaka, Japan, August 29-30, 2016.
2. AA Somaie, and Alhanof Alrashid, International Conference on Business, Economics, and Social Science & Humanities BESSH-2016, "Using Information System in Business Model will Reduce Cost and Increase Profit" Fraser Hotel Sunroute Plaza, Shinjuku Tokyo, Japan, April 27-28, 2016.
3. AA Somaie, Satellite Imaging System, International Journal of Image Processing IJIP, Volume 7, Issue 3, Pages 266-277, July 2013.

4. AA Somaie, Electro-Optical Sensors and Low Orbiting Satellites, The 3rdInternational Conference on Modern Trends In Physics Research, Physics Department, Faculty of Science, Cairo University, Cairo, Egypt, 6-10 March, 2008.

5. AA Somaie, Naser El-Sheimy, Ziad Abusara, and Mehdi Dehghani, From the Photographic Camera to an Electro-Optical Imaging System, 5th International Conference on Electrical Engineering, Military Technical College, Cairo, Egypt, 16-18 May, 2006.

6. AA Somaie, AIRCRAFT RECOGNATION BETWEEN ISODENSITY AND ORDINARY MOMENTS, 5th International Conference on Electrical Engineering, Military Technical College, Cairo, Egypt, 16-18 May, 2006.

7. AA Somaie, Rahim Pira and Wael Badawy, Design Of An Orbit of a Mini Satellite, 5th International Conference on Electrical Engineering, Military Technical College, Cairo, Egypt, 16-18 May 2006.

8. AA Somaie, Optical Sensors and Imaging Systems, The University of Calgary, Department of Electrical and Computer Engineering, 2500 University Drive NW, Calgary, AB, Canada T2N 1N4, Post-Doctoral Fellow, Report, 2005/2006.

9. AA Somaie, H M Farahat, and E S Ibrahim " Technical Discussion on Cryptosystems", Al-Azhar Engineering 7th International Conference, Al-Azhar University, Cairo, Egypt, 7-10 April 2003.

10. M. F. Fahmy, G. M. A. El-Raheem, Y. M. Yaseen and A. A. Somaie, "On the Optimal Choice of Wavelet Bases and Signal Compression Using the Wavelet Lifting Scheme", 19th National Radio Science Conference, NRSC 2002, PP. C30, Faculty of Engineering, Alexandria University, Egypt, 27-29 March 2002.

11. AA Somaie, M. B. Raid, and M. A. El-Bahtity " Self-Organizing Map and Satellite Image Compression", Proceedings of the Tenth International Conference on Artificial Intelligence Applications, Vol. 1, PP. 317-323, the American University, Cairo, Egypt, 6-9 February 2002.

12. AA Somaie, M. B. Raid, and M. A. El-Bahtity " Satellite Image Compression Using A Bottleneck Network", Proceedings of the Tenth International Conference on Artificial Intelligence Applications, Vol. 1, PP. 165-169, the American University, 2nd Publishing, Cairo, Egypt, 6-9 February 2002.

13. AA Somaie, M. B. Raid, and M. A. El-Bahtity " Satellite Image Compression Using A Bottleneck Network", 2001 CIE International Conference on Radar, P. No. 374, Xidian University, Beijing, China, 15-18 October 2001.

14. AA Somaie, A Badr , and T Salaha "Aircraft Image Recognition Using Back-Propagation", 2001 CIE International Conference on Radar, P. No. 287, Xidian University, Beijing, China, 15-18 October 2001.

15. AA Somaie, M. B. Raid, and M. A. El-Bahtity " Image Compression Using A Bottleneck Network", ICCTA 2001, Proceedings of the 11th International Conference Theory and Applications, Vol. III, PP. 54-60 CSS and IEE Alexandria, Egypt, 28-30 August 2001.

16. M. F. Fahmy, G. M. A. El-Raheem, R. S. El-Gohary, and A. A. Somaie "A Fast On Line Signal Separation Algorithm" 8th National Radio Science Conference, URSI, PP. C30-1/C30-8, Mansoura University, Egypt, 27-29 March 2001.

17. M. A. El-Bahtity, AA Somaie, and M. B. Raid " Image Compression Using Neural Networks" MSc Thesis, Cairo University, Institute of Statistical and Research, Computer and Information Science Department, Cairo, Egypt, February 2001.

18. E S Ibrahim, AA Somaie, and H M Farahat "Multimedia Encryption and Decryption" MSc Thesis, Faculty of Engineering, Al-Azhar University, Cairo, Egypt, January 2001.

19. AA Somaie, H M Farahat, and E S Ibrahim " New Hill Multimedia Cryptosystem (NHMC)", Proceedings of the sixth International Conference, Al-Azhar University, Artificial Intelligence Applications, Cairo, Egypt, 1-4 September 2000.

20. T Salaha, AA Somaie, A Badr, and H. Abbas "Neural Network Applications" MSc Thesis, Faculty of Engineering, Ain Shams University, Cairo, Egypt, June 2000.

21. AA Somaie, H M Farahat, and E S Ibrahim " Multimedia Staircase probabilistic Cryptosystem (MSPC)", Proceedings of the Seventeenth International Conference on Artificial Intelligence Applications, Vol. 1, PP 294-298, the American University, Cairo, Egypt, 3-7 February 1999.

22. AA Somaie, A Badr , and T Salaha "Aircraft Recognition System using Eigenvector Technique", Proceedings of the sixteenth National Radio Science Conference, NRSC'99, PP. C29 (1-9), IEEE, URSI, 2nd Publishing, Cairo, Egypt, February 1999.

23. AA Somaie, A Badr , and T Salaha "Aircraft Recognition System using Eigenvector Technique", "8th International Conference On Computer Theory and Applications ICCTA'98", Alexandria, Egypt, 15-17 September 1998.
24. AA Somaie "Face Identification Using Computer Vision" Ph.D. Thesis, University of Bradford, UK, June 1996.
25. S S Ipson, AA Somaie, and W Both " Face Identification Using 2-D Isodensity Moments, ACCV'95, Second Asian Conference on Computer Vision, Singapore, Vol. 2, PP. 484-488, ISBN 981-00-7198-2, December 1995.
26. AA Somaie and SS Ipson, " A Human Face Profile Using 1-D Real Fourier Descriptors", International Journal of Infrared and Millimeter Waves, Vol. 16, No. 8, PP 1285-1298, ISSN 0195-9271, August 1995.
27. AA Somaie and S S Ipson, "From Modeling to Human Face Profile Identification", Proceedings International AMSE Conference, Information Processing, New Orleans (USA), Vol. 1, PP 94-104, ISBN 2-909214-58-3, November 1994.
28. AA Somaie and S S Ipson, " Recognition of Human Face profiles Using a Phase Fourier descriptor in a One-Dimensional System", Proceedings International AMSE Conference, Information Processing, New Orleans (USA), Vol. 1, PP 81-91, ISBN 2-909214-58-3, November 1994.
29. AA Somaie and S S Ipson, "Preliminary Work on Human Face Profile Recognition Technique Using P-Fourier descriptors in A 1-D system", Technical, No. 552, University of Bradford, UK, July 1994.
30. AA Somaie and S S Ipson, "A review of Human face Recognition Systems", Technical, No. 546, University of Bradford, UK, May 1994.
31. AA Somaie and B Sing, "Objection Recognition Systems", Technical, No. 512, University of Bradford, UK, Ma 1993.
32. AA Somaie and E Gars, "Limited Vocabulary Isolated Speech Recognition System", Radio Science Conference, Cairo, MTC, March 1990.
33. AA Somaie and E Gars, "Speech Recognition System", Egyptian Armament Journal, October 1989.
34. AA Somaie "Limited Vocabulary Isolated Speech Recognition System", MSc Thesis, MTC, Cairo, February 1989.

- **Graduate Studies Activities, MSc, PhD:** Supervision Activities
  - M Bhatite "Data Protection Using Cryptographic Techniques" PhD program, Cairo University, Institute of Statistical and Research, Computer and Information Science Department, Cairo, Egypt, March 2007.
  - M. Moneir "Digital Image Restoration" MSC Thesis, Cairo University, Institute of Statistical and Research, Computer and Information Science Department, Cairo, Egypt, March 2003.
  - M Bhatite "Image Compression Using Neural Networks" MSC Thesis, Cairo University, Institute of Statistical and Research, Computer and Information Science Department, Cairo, February 2002.
  - A Hosam "Image Recognition Using Neural Network", MSC Thesis, Department of Computer Engineering, Al-Azhar University, 2001.
  - Emad Ibrahim "Multimedia Encryption and Decryption" MSC Thesis, Department of Computer Engineering, Al-Azhar University, January 2001.
  - T Salah "Neural Network Applications", MSC Thesis, Department of Computer and Systems, Ain Shams University, June 2000.

Quality Activities and Accreditation Processes:

- Develop Self Evaluation Scales for Higher Education Programs SESR Report, and Quality Evidences, Self-Study Report for Programs SSRP, July -2009, 2012, 2016.
- Updating Program Specification, and Program Annual Report, December – 2016
- Develop Program Action Plan, 2016/2017.
- Champion of quality and development, MIS department, CBA, 2012-2014.
- Chairman of the quality and development center QDC, University of Business and Technology, CBA, Jeddah, KSA, 2009-2010.

- Attend a number of Quality and Accreditation Workshops and Conferences:
  o Institutional Development Profile: Strategy, Resources, Programs, Students and Graduates, Faculty, Faculty's Intellectual Activity, Market Positioning, External Links, Workshop of EDAF, CBA, Jeddah, KSA, 30 September – 3 October, 2012.
  o Planning and implementation of a self-study for accreditation in KSA system, Planning and monitoring academic student counseling and other services, Britch Council, NCAAA, KSA, 7-8 March, 2009
  o Workshop of the International Network for Quality Assurance Agencies in Higher Education, Preparing Institutions for Self-Assessment, Evaluating Quality Assurance Agencies, Effective Site Visits, Effective Report Writing, Abu Dhabi, United Arab Emirates, 30th March –2nd April, 2009
  o External Reviewer for the Pre University Education Organizations, National Quality Assurance and Accreditation of Education, Egypt NQAACE, 26-30/10/2008, 28/12/2008-01/1/2009.

Career History:
- Nahda University - Beni Suef, Faculty of Computer Science, 2019 – current.
- Egyptian Chinese University, Faculty of Engineering and Technology, Software Engineering Program, 2017 – 2019
- University of Business and Technology UBT, KSA, Jeddah, 2009-2017
- Modern Academy for Computer Science and Management Technology, (2008-2009)
- Chairman of Research and Development Center (2006-2008)
- R&D Division (Cairo, 2001-2005)
- Center for R&D of A/C Programs (1996-2001)
- Ground Equipment Division, (1989-1992, 1979-1987)

Personal Data
- DOB: 27, July 1954; Nationality: Egyptian; Status: Married (3 daughters)

Medals
- Medal of Excellent Service, presented from Mr. President of Egypt, January, 2008.
- Medal of Duty, presented from Mr. President of Egypt, January 1st, 2008.
- Medal of Long Service 1st class, presented from Mr. President of Egypt, December, 1999.

References
- Professor Stanley S. Ipson, s.s.ipson@Bradford.ac.uk, University of Bradford, Bradford, UK.
- Professor Mahmoud Baissa, mbaissa@ubt.edu.sa, University of Business and Technology, KSA.

Documented References
- Available on request.