Curriculum Vitae

Name: Jalal A. Srar.

Degree: PhD, Associate Professor

Email: jalal.srar@eng.misuratau.edu.ly jalal.srar@gmail.com;

Address: Misurata, Libya

Ph. +218 92 783 77 68

Nationality: Libyan

Experience in Australia:

5 years PhD study and work in Australia.

Old address: 11B, Cardiff St., East Victoria Park, 6101, Perth, WA

Languages:

Arabic: Main Language.

English: Subsidiary language. flute speaking and writing.

Qualifications:

1 B.Sc. Electrical and Electronic Engineering, University of Garyounis 1993.

2 M.Sc. Industrial Eng., The Higher Institute of Industry, 2001, http://www.hii.edu.ly.

3 M.Sc courses in Communication, The Higher Institute of Industry, 2006, http://www.hii.edu.ly.

4 **Ph.D. in wireless communication; minor in Antenna beamforming (2011)**

   Thesis: "Adaptive Antenna Array Beamforming Using A Concatenation of Recursive Least Square and Least Mean Square Algorithms"

   Supervisor: Prof. Kah-Seng Chung

   Co-supervisour: Dr Ali Mansour

   Curtin University, Perth, WA, Australia

Current Job:

Academic staff member in Misurata University.

Job:

1. Academic Staff Member in Electronic Department, The Higher Institute of Industry Since 1st Jan. 1996 up to 13th Feb. 2003, http://www.hii.edu.ly.

2. Academic Staff Member in Electric and Electronic Engineering Department, Faculty Of Engineering, University of Misurata Since 13th Feb. 2003, http://www.misurata-uni.org/.

3. Teaching assistant (Tutorials, Labs) in Curtin University for the years 2008, 2009, 2010 and 2011 in average of 10 hours/week.

4. Head of Electronic Engineering Department, The Higher Institute of Industry, From

March 2002 to February 2003.
5. Head of Electrical and Electronic Engineering Department, Faculty of Engineering, Misurata University, from July 2003 up to September 2004.

Academic Experience:

1   Teaching the following courses:
   o   Communication Theory I.
   o   Communication Theory II.
   o   Antenna and Wave Propagation.
   o   Optical Communications Theory.
   o   Maintenance of Communication Devices.
   o   Communication System I.
   o   Linear Systems.
   o   Electronics I.
   o   Electronics II.
   o   Electronics III.
   o   Data Communication.
   o   Television systems.
   o   Audio Systems.
   o   Video Recording Systems.
   o   Electromagnetics II.
   o   Computer Applications Lab.
   o   Digital Signal Processing (DSP).
   o   Advanced Digital Signal Processing.
   o   Advanced Wireless Communication-LTE and LTEA systems.
   o   Adaptive Antenna Arrays

2   Teaching the following Master courses:
   o   Advanced Digital Signal Processing.
   o   Adaptive Antenna Arrays.
   o   LTE, LTE-A Wireless Communication Mobile Systems.

3   Teaching in Curtin University including courses: Electrical Systems, Electronic Fundamentals, Electrical Circuits and Digital Communication.

4   Member of Communication Team, especially in Aerial Platforms system, The Higher Institute of Industry.

5   Member of a group to prepare the subjects and, its contents, for Electrical and Electronic Engineering Department, Faculty of Engineering, Misurata University.

6   Teacher in a specific training course for secondary school teachers in Electric and Electronic Courses, July – August, 2002.

7   Teacher in a specific training course for secondary school teachers in Electric and Electronic Courses, July – August, 2004.

8   Member of the Medical Engineering Group which works in cooperations with Cancer Center/Misurata since 2017.

Activities:

1. Editorial Team Membership International Journal of Recent and Innovation Trends in Computing and Communication (IJRITCC).
2. Reviewer for some high level journals and conferences such as:
   - o IEEE Communications Letters,
   - o COMPEL: The International Journal for Computation and Mathematics in Electrical and Electronic Engineering,
   - o EEG-SSVEP: Recent Advancement in Informatics, Electrical and Electronics Engineering International Conference,
   - o PIER: Progress in Electromagnetic Research (PIER, PIER B,C,M, PIER Letters)
   - o RAIEIC: Recent Advancement in Informatics, Electrical and Electronics Engineering International Conference

3. Implementing a Training course in Electronic Devices Maintenance, The Higher Institute of Industry, Misurata 1997.
4. Implementing a Training course in T.V Maintenance, Faculty of Engineering Misurata, 2004.

Publications:

1. M. Abdurrahim, A. Abrwais, and J. Srar, "LTE Cell Coverage Planning Considerations- Case Study of Misurata City", 1st Industrial Technology Conf., Misrata, Libya, May.2017.
2. J. Srar, K. S. Chung, and A. Mansour, "Evaluation of Adaptive Array Beamforming Using RLMS Algorithm," *4th IEEE Int. Conf. on Control Eng. and Information Technology*, Hammamet, Tunisia, Dec.2016.
3. A. Abrwais, and J. Srar, "Adaptive Security System using Biometric Technology" *4th IEEE Int. Conf. on Control Eng. and Information Technology*, Hammamet, Tunisia, Dec.2016.
4. Z. Benguzzi, M. Farshouh, A. Abrwais, and J. Srar, "Evolution of Adaptive Antennas for LTE Systems", *EEES2016*, Misrata, Libya, May.2016.
5. A. Abrwais, A. Khaled, A. Alsousi , J. Srar, "Influence of Jammers on GSM Mobile Network", *International Journal of Engineering Research & Technology (IJERT),* Vol. 4 Issue 08, Aug. 2015.
6. J. Srar, K. S. Chung, and A. Mansour, "LLMS Adaptive Array Beamforming Algorithm for Concentric Circular Arrays[1]", 2nd International Workshop on Signal Processing, Jeju Island, Korea, Dec. 2013.
7. J. Srar, K. S. Chung, and A. Mansour, "Analysis of the LLMS Adaptive Beamforming Algorithm Implemented with Finite Precision", *20th International IEEE Conference on Telecommunications Forum TELFOR*, BELGRADE, SERBIA, NOV. 2012.
8. J. Srar, K. S. Chung, and A. Mansour, " Performance of an LLMS Beamformer in the Presence of Element Gain and Spacing Variations," APCC2011, Sabah, Malaysia, Oct. 2011.
9. J. Srar, K. S. Chung, and A. Mansour, "Adaptive Array Beamforming Using a Combined LMS-LMS Algorithm," APCC2010, Auckland, Newzeland, Oct. 2010.
10. J. Srar, K. S. Chung, and A. Mansour, "Adaptive Array Beamforming Using a Combined

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[1] This paper is awarded as the best paper.

LMS-LMS Algorithm," IEEE Trans. on Antennas and Propagation, Vol. A58 No. 11, Nov. 2010.

11. Jalal SRAR, Kah-Seng CHUNG and Ali MANSOUR, "A new LLMS Algorithm for Antenna Array Beamforming," IEEE WCNC2010 conference, Sydney, Australia, April 2010.

12. Jalal SRAR, Kah-Seng CHUNG and Ali MANSOUR, "Adaptive Array Beamforming using a Combined LMS-LMS Algorithm," IEEE Aerospace conference 2010, Montana, USA, Mar. 2010.

13. J. Srar and K.-S. Chung, "Adaptive RLMS Algorithm for Antenna Array Beamforming," in TENCON2009, Singapore, Nov.2009.

14. J. Srar and K.-S. Chung, " RLMS Algorithm for Fixed or Adaptive Beamforming," in MICC 2009, Kuala Lumpur, Malaysia, Dec. 2009.

15. J. Srar and K.-S. Chung, "Adaptive Array Beam Forming Using a Combined RLS-LMS Algorithm," in APCC2008 Japan, 2008.

16. J. Srar and K.-S. Chung, "Performance of RLMS Algorithm in Adaptive Array Beam Forming," in ICCS2008 China, 2008.

17. B. El-Jabu, J. A. Srar, and O. A. Abu-Ellal, "Beamforming in Tight Specifications Environment using Generalized Minimum Mean Error (GMME) Algorithm," in IEEE Aerospace Conference, 2007.

18. J. Srar, O. A. Abu-Ellal, and B. A. El-Jabu, "Beamforming in Tight Specifications Environment " in IEEE Aerospace Conference, 2007.

19. I. Badi, A. Shetwan and J. A. Srar, "Using Quality Costs as an Indication for Quality Development in an Industrial Unit", Quality Conference, Tripoli, 2004.

20. J. Srar, M. Shetwan and B. A. El-Jabu, "Risks of Exposure to Electromagnetic Radiation", 2nd Conference of Engineers, Benghazi, 2003.

21. J. Srar and Z. Hatooch, "Methodology of Making Scientific Researches − Theory and Application", Development of Engineering and Technical Education, the 21st Century Symposium, Houn, 2001.

Date: Aprill, 2019