

Curriculum Vitae

Osama A. S. Alkishriwo

CONTACT INFORMATION

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Publons Profile: <https://publons.com/dashboard/records/review/>

Citizenship: Libya



EDUCATION

- Ph.D. in Electrical and Computer Engineering, Swanson School of Engineering, University of Pittsburgh, Pittsburgh, PA, USA, April 2013.
- M. Sc. in Electrical and Electronic Engineering, University of Tripoli, Tripoli, Libya, 2006.
- B. Sc. in Electrical and Electronic Engineering, Seventh of April University, Zawia, Libya, 2002.

SUMMARY OF QUALIFICATION

- Excellent communication skills.
- Excellent management skills with the ability to work independently or in a team .
- Excellent interpersonal relation building.
- Excellent project management skills with strong technical writing reports.

EMPLOYMENT HISTORY

- 2018-Present, Assistant Professor, Electrical and Electronic Engineering, University of Tripoli
- 2013-2018, Lecturer, Electrical and Electronic Engineering, University of Tripoli.
- 2012-2013, Teaching Assistant, Electrical and Computer Engineering, University of Pittsburgh.
- 2010-2011, Teaching Assistant, Electrical and Computer Engineering, University of Pittsburgh.
- 2007-2008, Assistant Lecturer, Electrical and Electronic Engineering, University of Tripoli.
- 2003 -2007, Teaching Assistant, Electrical and Electronic Engineering, University of Tripoli.

COURSES THOUGHT AND DEVELOPED

- ECE 1562 Digital and Analog Filters (University of Pittsburgh)
- ECE 1710 Smart Grid Network (University of Pittsburgh)
- ECE 1710 Smart Grid Network (University of Pittsburgh)
- ECE 1472 Analog Communication Systems (University of Pittsburgh)
- ECE 2523 Digital Signal Processing (University of Pittsburgh)
- ECE 2671 Optimization Methods (University of Pittsburgh)
- EE200 Fundamentals of Electrical Engineering (University of Tripoli)
- EE201L Electrical Laboratory (University of Tripoli)
- EE302 Signals and Systems (University of Tripoli)
- EE311L Electronic Lab (University of Tripoli)
- EE421L Communication Lab. I (University of Tripoli)
- EE304 Measurements and Instrumentation (University of Tripoli)
- EE316 Communication Engineering I (University of Tripoli)
- EE416 Communication Engineering II (University of Tripoli)
- EE516 Communication Systems I (University of Tripoli)
- EE423 Active Networks (University of Tripoli)
- EE521L Communication Lab. II (University of Tripoli)
- EE491 Computer Applications and Design Lab. (University of Tripoli)
- EE599 B. Sc. Project (supervising more than 30 students) (University of Tripoli)

RESEARCH INTERESTS

- Speech processing and recognition
- Data Compression and Source Coding
- Encryption, Steganography, and Digital Watermarking
- Application of Machine Learning Algorithms for Speech recognition, Tumor classification and detection, Iris recognition, Finger print recognition, Modulation classification, MIMO signal detection, and Fault detection.
- Wireless Communication, Channel Estimation, Detection, and Capacity Analysis
- Time-Frequency Analysis, Instantaneous Frequency Estimation, and Their Applications
- Compressive Sensing and Empirical Mode Decomposition
- Applications of Wavelet Transform

LEADERSHIP AND MANAGENMENT EXPERIENCE

- Head of committee to receive CCTV project at University of Tripoli.
- Head of information technology committee at EEE department.
- Committee member of reviewing files and transcripts of graduates at EEE department.
- Creator and administrator of EEE department Facebook page.
- Administrator of EEE department website page.
- Member of the scientific committee of the Third Conference for Engineering Sciences and Technology (CEST-2020), Dec. 01-03, 2020, Al Khums, Libya
- Member of the scientific committee of the First Conference for Engineering Sciences and Technology (CEST-2018), Sep. 25-27, 2018, Garaboulli, Libya.
- Member of the organization committee for the Fourth Libyan International Conference on Electrical and Electronic Engineering, 20-23/3/2006.
- Supervising more than 20 undergraduate projects.

GRADUATE COURSES

- GE604 Advanced Mathematics
- EE612 Advanced Electromagnetic
- EE620 Stochastic Process
- EE724 Communication Theory I

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- EE629 Mobile communication
- ECE 2523 Digital Signal Processing
- ECE 3557 Statistical Signal Processing
- ECE 2671 Optimization Methods
- ECE 3650 Optimal Control
- EE633 Discrete Data and Computer Control
- GE609 Numerical Analysis
- EE622 Advanced Electronic Devices
- EE626 Telecommunication System Design I
- ECE 2646 Linear System Theory
- ECE 3526 Modern Spectral Estimation
- ECE 3528 Time-Frequency Signal Analysis
- ECE 3374 Applications of Wavelet Transform
- Machine Learning (Online course)

COMPUTER SKILLS

- Excellent use of Microsoft Word.
- Excellent use of LATEX editor.
- Git version control system
- MATLAB and C++
- Python
- Multisim and Electronics Workbench
- Optisystem
- Website design and management

LANGUAGES AND QUALIFICATION

- Excellent command of English and Arabic
- Qualification:
 - Successfully Completing an Intensive Program of English Studies with level Six (Advanced) at Spring International Language Center, Auraria Higher Education Center, Denver, Colorado, USA, Mar. 2009.
 - MICHIGAN STANDARD TEST: Total score 78, 2009.

- Test of English as a Foreign Language (TOFEL) IBT based: Total score 86, 2009.
- GRE Test: Total Score 1050, 2008.

SELECTED PUBLICATIONS

- **O.A.Alkishriwo**, “Image compression using adaptive multiresolution image decomposition algorithm,” *IET Image Processing Journal*, Oct. 2020, DOI: 10.1049/iet-ipr.2019.1699.
- **O. A. Alkishriwo**, “A novel denoising method based on discrete linear chirp transform,” *Third Conference for Engineering Sciences and Technology (CEST-2020)*, Alkhoms, Libya, Dec. 2020.
- L. T. Benamer and **O. A. Alkishriwo**, “Database for Arabic speech commands recognition,” *Third Conference for Engineering Sciences and Technology (CEST-2020)*, Alkhoms, Libya, Dec. 2020.
- **O. A. Alkishriwo**, “An image encryption algorithm based on chaotic maps and discrete linear chirp transform,” *Almadar Journal for Communications, Information Technology, and Applications*, Vol. 05, no. 1, pp. 14-19, Jun. 2018.
- R. A. Aboughalia and **O. A. Alkishriwo**, “Color image encryption based on chaotic block permutation and XOR operation,” *Libyan International Conference on Electrical Engineering and Technologies (LICEET2018)*, Tripoli, Libya, Mar. 2018, pp. 492-497.
- **O. A. Alkishriwo**, “A novel chaotic uniform quantizer for speech coding,” *First Conference for Engineering Sciences and Technology (CEST-2018)*, Garaboulli, Libya, pp. 81-86, Sep. 2018.
- **O. A. Alkishriwo**, A.A. Elghariani, A. Akan, “Iterative time-varying filter algorithm based on discrete linear chirp transform,” *First Conference for Engineering Sciences and Technology (CEST-2018)*, Garaboulli, Libya, pp. 86-92, Sep. 2018.
- H. S. Alzregghi and **O. A. Alkishriwo**, “Color image encryption in the spatial domain using 3-D chaotic system,” *First Conference for Engineering Sciences and Technology (CEST-2018)*, Garaboulli, Libya, pp. 92-98, Sep. 2018.
- A. Abdelgader, R. Aboughalia, and **O. A. Alkishriwo**, “Combined image encryption and steganography algorithm in the spatial domain,” *First Conference for Engineering Sciences and Technology (CEST-2018)*, Garaboulli, Libya, pp. 133-138, Sep. 2018.
- **O. A. Alkishriwo**, A. Akan, and L. F. Chaparro, “Intrinsic mode chirp decomposition of non-stationary signals,” *IET Signal Processing*, Vol. 08, no. 3, pp. 267-276, May 2014.

- L. F. Chaparro, E. Ervin, A. Can, **O. A. Alkishriwo**, S. Senay, and A. Akan, "Asynchronous representation and processing of non-stationary signals in a time-frequency context," *IEEE Signal Processing Magazine*, Vol. 30, no. 6, pp. 42-52, Nov. 2013.
- A. Hari, **O. A. Alkishriwo**, L. F. Chaparro, and A. Akan, "Non-stationary decomposition using the discrete linear chirp transform (DLCT) for FM demodulation," in *Proc. of IEEE 21th European Signal Processing Conference (EUSIPCO2013)*, Marrakech, Morocco, Sep. 2013.
- **O. A. Alkishriwo** and L. F. Chaparro, "Signal compression using the discrete linear chirp transform (DLCT)," in *Proc. of IEEE 20th European Signal Processing Conference (EUSIPCO2012)*, Bucharest, Romania, Aug. 2012, pp. 2128-2132.
- **O. A. Alkishriwo** and L. F. Chaparro, "A discrete linear chirp transform (DLCT) for data compression," in *Proc. of the IEEE International Conference on Information Science, Signal Processing, and their Applications*, Montreal, Canada, Jul. 2012, pp. 1283-1288.
- A. Can, E. Sejdic, **O. A. Alkishriwo**, and L. F. Chaparro, "Compressive asynchronous decomposition for heart sounds," in *Proc. of the IEEE Statistical Signal Processing Workshop*, Ann Arbor, MI, USA, Aug. 2012, pp. 736-739.
- **O. A. Alkishriwo**, L. F. Chaparro, and A. Akan, "Signal separation in the Wigner distribution domain using fractional Fourier transform," in *Proc. of 19th European Signal Processing Conference (EUSIPCO 2011)*, Barcelona, Spain, Sep. 2011, pp. 1879-1883.
- **O. A. Alkishriwo** and M. M. Mousa, "Probability of bit error for MPSK modulation with MRC and SC diversity combining in Rayleigh fading channel," in *Proc. of the ITC Conference*, Tripoli, Libya, May 2008, pp. 237-243.
- **O. A. Alkishriwo** and M. M. Mousa, "Utilization improvement for integration of dynamic pricing with CAC scheme for cellular networks," in *Proc. of the ITC Conference*, Tripoli, Libya, May 2008, pp. 57-63.
- **O. A. Alkishriwo** and M. M. Mousa, "Integration of dynamic pricing with guard channel scheme for uniform and non-uniform cellular network traffic," in *Proc. of the IEEE International Conference on RF and Microwave*, Kuala Lumpur, Malaysia, Sep. 2006, pp. 363-366.
- **O. A. Alkishriwo** and M. M. Mousa, "An improved authentication protocol for GSM networks," in *Proc. of the 4th Libyan International Conference*, Tripoli, Libya, Mar. 2006, vol. 1, pp. 321-328.

- **O. A. Alkishriwo**, A. M. Ben Hamid, M. M. El-Muradi, “An improved analytical short channel MOSFET model for digital switching circuit analysis,” *in Proc. of the 6th International Philadelphia Engineering Conference*, Amman, Jordan, Sep. 2006, pp. 159-169.

OHONORS AND AWARDS

- First-class Honor Scholarship, Libyan Ministry of Higher Education, 2008.
- Publons, Top reviewer award, 2019.

PROFESIONAL ACTIVITIES

- Reviewer for IEEE Communication letters
- Reviewer for Elsevier Digital Signal Processing Journal
- Reviewer for Almadar Journal for Communications, Information Technology, and Applications
- Reviewer for IEEE Signal Processing Letters
- Reviewer for IEEE Transactions on Signal Processing
- Reviewer for IET Signal Processing
- Reviewer for Elsevier Signal Processing Journal
- Reviewer for Springer Multidimensional Systems and Signal Processing Journal
- Reviewer for IET Electronic Letters