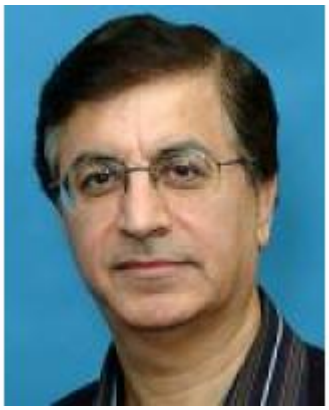
Associate Professor Waleed H Abdulla

BSc, MSc, PhD



Associate Professor

In: Department of Electrical, Computer and Software Engineering » Faculty of Engineering

Biography

Waleed H. Abdulla holds a PhD Degree from the University of Otago, New Zealand. He is an Associate Professor in the University of Auckland. He was the Vice President- Member Relations and Development (APSIPA) for two terms. He has been a Visiting Researcher/Collaborator with Tsinghua University, Siena University (Italy), Essex University (UK), IDIAP (Switzerland), TIT (Japan), ETRI (Korea), HKPU (Hong Kong). He has published more than 150 refereed publications. He is member of Editorial Boards of six journals. He supervised over 25 postgraduate students. He is a recipient of many awards and funded projects exceeding $1M and was awarded JSPS, ETRI, and Tsinghua fellowships. He received Excellent Teaching Awards for 2005 and 2012. He is a Member of APSIPA and Senior Member of IEEE.

Research | Current

Human Biometrics

Signal and Speech Processing

Speaker Recognition

Active Noise Control

Biosignal Processing

Parametric Acoustic Speakers

Speech Enhancement

Hyperspectral Imaging to Quantify Food Quality

Audio Watermarking

Teaching | Current

Signal Processing, Circuits and Systems, Human Biometrics

Responsibilities

Deputy Head of Department (Academic)

Areas of expertise

His research interest: Human Biometrics, Narrow Sound Beam Projection, Hyperspectral Imaging Applications, Speech and Signal Processing, and Active Noise Control

Selected publications and creative works (Research Outputs)

- Noviyanto, A., & Abdulla, W. (2017). Honey dataset standard using hyperspectral imaging for machine learning problems. *25th European Signal Processing Conference EUSIPCO 2017*, 503-507. Kos Island, Greece: IEEE. 10.23919/EUSIPCO.2017.8081252
  URL: http://hdl.handle.net/2292/41270
  Other University of Auckland co-authors: Ary Noviyanto
- Chalakkal, R., & Abdulla, W. (2017). Automatic segmentation of retinal vasculature. *2017 IEEE International Conference on Acoustics, Speech and Signal Processing Proceedings*, 886-890. New Orleans, LA, USA: IEEE. 10.1109/ICASSP.2017.7952283
  URL: http://hdl.handle.net/2292/35175
  Other University of Auckland co-authors: Renoh Johnson Chalakkal
- Bao, F., & Abdulla, W. H. (2016). A noise masking method with adaptive thresholds based on CASA. *2016 Asia-Pacific Signal and Information Processing Association Annual Summit and Conference, APSIPA 2016*, 232-236. Jeju, South Korea: IEEE. 10.1109/APSIPA.2016.7820880
- Lin, Y., & Abdulla, W. H. (2015). *Audio watermark: A comprehensive foundation using MATLAB*. Springer. Pages: 199. 10.1007/978-3-319-07974-5
- Ardekani, I. T., & Abdulla, W. H. (2014). Active noise control in three dimensions. *IEEE Transactions on Control Systems Technology, 22* (6), 2150-2159. 10.1109/TCST.2014.2301457
  Other University of Auckland co-authors: Iman Ardekani
- Tabatabaei Ardekani, I., & Abdulla, W. H. (2014). Adaptive signal processing algorithms for creating spatial zones of quiet. *Digital Signal Processing: A Review Journal, 27* (1), 129-139. 10.1016/j.dsp.2014.01.001
  Other University of Auckland co-authors: Iman Ardekani
- Ardekani, I. T., Abdulla, W. H., & Rehman, S. U. (2014). *Remote FxLMS Algorithm for Active Control of Sound in Remote Locations*. Paper presented at Annual Summit and Conference of Asia-Pacific-Signal-and-Information-Processing-Association (APSIPA), Angkor, CAMBODIA. 9 December - 12 December 2014. 2014 ASIA-PACIFIC SIGNAL AND INFORMATION PROCESSING ASSOCIATION ANNUAL SUMMIT AND CONFERENCE (APSIPA). (pp. 5).
- Krivokuca, V., Abdulla, W., & Swain, A. (2013). A non-invertible cancellable fingerprint construct based on compact minutiae patterns. *International Journal of Biometrics, 6* (2), 125-142. 10.1504/IJBM.2014.060977
  Other University of Auckland co-authors: Akshya Swain

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Save to contacts

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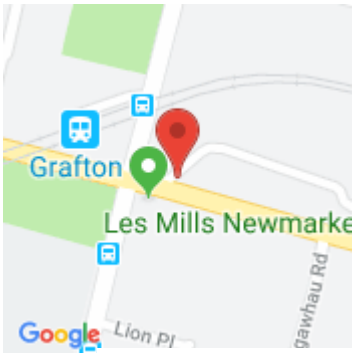

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