Haytham Fayek

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Education

RMIT University, Australia
Ph.D., Electrical and Computer Engineering — Mar 2015 to 2018 (*Expected*)
- Research Areas: Deep Learning, Machine Learning, Signal Processing.

Petronas University of Technology, Malaysia
M.Sc. (Research), Electrical and Electronics Engineering — May 2012 to Jul 2014
B.Eng. (Honours), Electrical and Electronics Engineering — Jan 2007 to Jan 2012

Experience

RMIT University, Australia
Casual Academic — Mar 2016 to Present

Facebook, United States
Research Intern — Oct 2016 to Mar 2017

Approved Forensics, Malaysia
Assistant Electrical Engineer — Apr 2012 to Mar 2014

Ranhill WorleyParsons, Malaysia
Electrical Trainee Engineer — Jun 2010 to Jan 2011

Selected Honours

- NVIDIA Hardware Grant — 2015
- RMIT Vice Chancellor's PhD Scholarship (VCPS) — 2015 to 2018
- Gold Medal, 24th Int'l Invention, Innovation & Technology Exhib. (ITEX'13), MY — 2013
- 2nd Best Young Author, 18th Int'l Conf. on Methods & Models in Automation & Robotics, PL — 2013
- First Place, Vice Chancellor's Best Final Year Project, Convo. Ceremony, Petronas University — 2012
- Silver Medal, Vice Chancellor's Best Student, Convo. Ceremony, Petronas University — 2012
- Silver Medal, Science & Engineering Design Exhibition, Petronas University — 2011
- Best Presenter, Science & Engineering Design Exhibition, Petronas University — 2011
- Best International Student, Petronas University — 2010
- Petronas & MOPE BEng Scholarship — 2007 to 2012

Selected Publications

1. **Haytham M. Fayek**, "MatDL: A lightweight deep learning library in MATLAB," *Journal of Open Source Software*, vol. 2, no. 19, pp. 413, November 2017.
2. **Haytham M. Fayek**, Laurens van der Maaten, Griffin Romigh, and Ravish Mehra, and R. Mehra, "On data-driven approaches to head-related transfer function personalization," *Audio Engineering Society Convention 143*, New York, NY, USA, October 2017.
3. **Haytham M. Fayek**, Margaret Lech, and Lawrence Cavedon, "Evaluating deep learning architectures for speech emotion recognition," *Neural Networks*, vol. 92, pp. 60–68, 2017.
4. **Haytham M. Fayek**, Margaret Lech, and Lawrence Cavedon, "On the correlation and transferability of features between automatic speech recognition and speech emotion recognition," *Interspeech 2016*, San Francisco, CA, September 2016.
5. **Haytham M. Fayek**, Irraivan Elamvazuthi, Perumal Nallagownden, and Bala Venkatesh, "A controller based on optimal type-2 fuzzy logic: Systematic design, optimization and real-time implementation," *ISA Transactions*, vol. 53, no. 5, pp. 1583–1591, 2014.

Complete list of publication at http://haythamfayek.com/publications.

Talks

Complete list of talks at http://haythamfayek.com/presentations.

Skills

Artificial Intelligence	Machine Learning	Deep Learning
Computational Intelligence	Signal Processing	Intelligent Control
Optimization	Speech Recognition	Computer Vision
Robotics	Affective Computing	High Performance Computing