

# **Biographical Sketch:**

## **Dr Sherine M Antoun**

### **Professional Preparation**

2001 BCS in Computer Science (Honours) University of Wollongong Australia

2005 RESEARCH MASTERS/MPHIL Computer Science University of Wollongong

Advisors: Professor: John Fulcher and Professor: Carol Anne Alcock

Dissertation: An Open Source Approach to Medium-Term Data Archiving

2013 PHD in Robotics and Applied Computer Science University of Wollongong

Advisor: Professor Phillip John McKerrow.

Dissertation: Sensing for Autonomous Navigation by Identifying Multiple Continuous and Discontinuous Reflectors in Each Echo of a Mono-aural CTFM Ultrasonic Sensor

### **Appointments**

2019 - Date Colorado Mesa University - Assistant Professor

2015 - 2019 University of Illinois - Assistant Professor

2010 - 2014 University of Wollongong, Australia - Associate Lecturer

2002 - 2012 University of Wollongong College, Australia - Lecturer

### **Publications**

1. Antoun S.M. (2019) Mining CTFM Echo Signal Data for Navigation. In: Arai K., Kapoor S., Bhatia R. (eds) Intelligent Systems and Applications. IntelliSys 2018. Advances in Intelligent Systems and Computing, vol 869. Springer, Cham
2. S. Antoun and P. McKerrow, Issues in wall tracking with a CTFM ultrasonic sensor, IEEE Sensors, vol. 13, pp. 46714681, December 2013.
3. Antoun, S, Biologically inspired perception for robotics in hostile environments..., Biologically Inspired Cognitive Architectures (2015).
4. S. Antoun and P. McKerrow, Mimicking a blind person navigating a corridor using a k-sonar with a mobile robot, in Proceeding PCAR 10 Proceedings of the 3rd International Symposium on Practical Cognitive Agents and Robots, AMAS Toronto, 2010.

5. P. McKerrow, S. Antoun, and P. Worth, A software architecture for mobile robot navigation, in Proceedings Towards Autonomous Robotic Systems TAROS (S. Ramamoorthy and G. M. Hayes, eds.), no. ISBN 9'a8 9'a6849 a"a 9, (Edinburgh), pp. 185192, University of Edinburgh, University of Edinburgh, September 2008.
6. S. Antoun and P. McKerrow, Perceiving a corridor with ctfm ultrasonic sensing, in Proceedings Australasian Conference on Robotics and Automation (M. Dunbabin and M. Srinivasan, eds.), vol. CD-ROM, (Brisbane), Australian Robotics and Automation Association, Australian Robotics and Automation Association, December 2007.
7. P. McKerrow and S. Antoun, Research into navigation with CTFM ultrasonic sensors, in Proceedings of 63rd Annual meeting Institute Of Navigation (ION), vol. 63, (Cambridge, MA), pp. 674680, Institute Of Navigation, Institute Of Navigation, April 2007.
8. S. Antoun and P. McKerrow, Wall following with a single ultrasonic sensor, in Intelligent Robotics and Applications (H. Liu, H. Ding, Z. Xiong, and X. Zhu, eds.), vol. 6425 of Lecture Notes in Computer Science, pp. 130141, Springer Berlin Heidelberg, 2010.