

Faculty Vitae

1. General Information:

Names	Nationality	Photo
Mohsen Salih	Australian	

2. Education:

Degree	Discipline	Institution	Year
Bachelor	Electrical Engineering	University of Al-jabel Al-gharbi	1998
Master	Automatic Control and Instrumentation	Academic of Graduate Studies	2007
Ph.D.	Control Systems of Biomedical Devices	The University of New South Wales	2014

ACADEMIC EXPERIENCE

- **INSTITUTE:** MAJMAAH UNIVERSITY, MAJMAAH - KSA
POSITION: Assistant Professor, Jan - 2016 to Present
- **INSTITUTE:** THE UNIVERSITY OF NEW SOUTH WALES, SYDNEY- AUSTRALIA
POSITION: Teaching Assistant, Aug - 2011 to Aug - 2014

JOURNAL INTERVIEW

- ◆ Link: <http://digital-library.theiet.org/content/journals/10.1049/el.2015.0986>
Source: Electronics Letters, Volume 51, Issue 8, 16 April 2015, page 590
DOI: 10.1049/el.2015.0986 , Print ISSN 0013-5194, Online ISSN 1350-911X

MEMBERSHIP OF SCIENCE AND PROFESSIONAL SOCIETIES

- ◆ Graduate Student member of Institute of Electrical and Electronics Engineers (IEEE), 2011-2014
- ◆ Mentoring new IEEE members at UNSW, 2011-2014
- ◆ Member of the Institute of Electrical and Electronics Engineers (IEEE), 2014 – present

PROFESSIONAL SERVICE

- ◆ Serving as a reviewer for Artificial Organs journal.
- ◆ Serving as a reviewer for Medical & Biological Engineering & Computing

TECHNICAL SKILLS

- ◆ Applications/Tools: MATLAB, Labview, C++, AutoCAD, MS Office Suite.
- ◆ Operating Systems: Windows, OS X.

PRESENTATIONS AND TALKS

- ◆ "Feasible Approach to Control the Operation of an Implantable Rotary Blood Pumps for Heart Failure Patients," **9th Asian Control Conference, Istanbul, Turkey, June 23-26, 2013.**
- ◆ "Physiological Control of Implantable Rotary Blood Pumps for Heart Failure Patients," **35th IEEE Engineering in Medicine and Biology Society, Osaka, Japan, July 3-7, 2013.**
- ◆ "Sensorless physiological controller for an implantable rotary blood pump for heart failure patients," **2014 IEEE Multi-Conference on Systems and Control (IEEE MSC 2014), Nice, France.**

AWARDS AND HONOURS

- ◆ Awarded Post-graduate Research Student Support (PRSS) travel grant that jointly offered by The Graduate Research School and The Faculty of Engineering, The University of New South Wales, to present a paper at 35st Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC2013), **Osaka, Japan.**
- ◆ Best Application Paper Award at the 9th IEEE Asian Control Conference (ASCC), 23-26 June 2013, Istanbul, Turkey.
- ◆ Selected for the 2012 Dean's Award for Excellence in Postgraduate Research. The Award was established to recognize outstanding research in engineering and applied sciences being conducted by postgraduate research students in the Faculty of Engineering at UNSW Sydney and UNSW Canberra.
- ◆ Selected for 3-Minute Thesis Competition by the Faculty of Engineering at UNSW, 29th July 2013.

RECENT PUBLICATIONS

REPORTS IN ARXIV:

1. Bakouri, Mohsen A. "Sensorless Physiological Control of Implantable Rotary Blood Pumps for Heart Failure Patients Using Modern Control Techniques." arXiv preprint arXiv:1405.2419 (2014).

PAPERS IN REFEREED JOURNALS:

1. M. A. Bakouri, A. V. Savkin, A. H. H. Alomari, "Nonlinear modeling and control of a left ventricular assist devices" *Electronics Letters*, 2015, 51(8), 613-615.
2. M. A. Bakouri, R. F. Salamonsen, A. V. Savkin, A. H. H. Alomari, E. Lim, N. H. Lovell, "A sliding mode based starling like controller for implantable rotary blood pumps" *Artificial Organs*, 2014,38(7):587-615.
3. M. A. Bakouri, R. F. Salamonsen, A. V. Savkin, A. H. H. Alomari, E. Lim, N. H. Lovell, . "A Sensorless Robust Tracking Control of an Implantable Rotary Blood Pump for Heart Failure Patients" *World Academy of Science, Engineering and Technology, International Science Index*, 2012,71, 6(11), 1232 - 1236.

PAPERS IN REFEREED CONFERENCES

1. M. A. Bakouri, R. F. Salamonsen, A. V. Savkin, E. Lim, A. H. H. Alomari, N. H. Lovell, "Feasible approach to control the operation of implantable rotary blood pumps for heart failure patients" in *Proceedings of the 9th IEEE Asian Control Conference (ASCC), Istanbul, Turkey, pp. 1-6, June 2013.*
2. M. A. Bakouri, R. F. Salamonsen, A. V. Savkin, A. H. H. Alomari, E. Lim, N. H. Lovell, "Physiological control of implantable rotary blood pumps for heart failure patients" in *Proceedings of the 35th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC'13), Osaka, Japan, pp 675-678, July 2013.*
3. M. A. Bakouri, A. V. Savkin, A. H. H. Alomari, "Sensorless physiological controller for an implantable rotary blood pump for heart failure patients" in *Proceeding of 2014 IEEE Multi-Conference on Systems and Control (IEEE MSC 2014), Nice, France, pp 1017-1022, 2014.*
4. M. A. Bakouri, A. V. Savkin, A. H. H. Alomari, "A Method for Control of Cardiac Assist Device" in *Proceedings of the 10th IEEE Asian Control Conference (ASCC), Suter Harbour Resort, Sabah, Malaysia, pp. 1-5, June 2015.*

AREAS OF RESEARCH INTEREST

1. Control Algorithms: Development and implementation of control algorithms, particularly for non-linear systems.
2. Control Applications: Modelling, estimation, simulation and control for biomedical devices.
3. Cardiovascular haemodynamics research:
 - Haemodynamic in-vitro validation tests.
 - Heart assistant device (Artificial heart).
 - Physiological control algorithms for rotary blood pumps.
 - The relation between cardiac output and pump flow pulsatility.