

## Dr. Saleh O. S. ALTAKROURI

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I hold a permanent position as Assistant Professor at Palestine Polytechnic University. My academic load is full-time teaching of undergraduate courses. The courses I teach span introductory and core courses in Electrical Engineering. I am interested in the fields of control systems and industrial automation.

### **Contact Information:**

Email: saleh@ppu.edu

### **Work Experience:**

9/2010 – Now	Assistant Professor (Electrical Engineering) Palestine Polytechnic University (Palestine)
6/2012 – 12/2012	Research Associate University of New South Wales (Australia)
4/2009 – 7/2010	Research Assistant Federation University (Australia)
11/2008 – 3/2009	Visiting Researcher (Honorary) University of Melbourne (Australia)
4/2008 – 7/2008	Research Assistant University of New South Wales (Australia)
2/2005 – 2/2008	Lab Demonstrator University of New South Wales (Australia)
9/2001 – 7/2002	Research and Teaching Assistant Palestine Polytechnic University (Palestine)

### **Courses Taught:**

PLC and SCADA Systems, Control Systems, Measurements and Sensors, Electrical Machines and Drives, Power Electronics, PIC18 and Arduino Microcontrollers, 8085 Microprocessor, Digital Design, Electronics, Electrical Circuits, Physics I, Visual Basic, Introduction to Computers. Control Systems Lab, Digital Control Systems Lab, Digital Design Lab, C Programming Lab.

### **Professional skills:**

Programming Languages: C, Visual Basic, Matlab.  
Control systems: PLC, SCADA, HMI, Microcontrollers.  
Computer skills: Office, Windows, Linux, LaTeX.

### **Education:**

- 3/2005 – 8/2008 PhD in Electrical Engineering  
University of New South Wales (Australia)
- 1/2003 – 10/2004 MSc in Electrical Engineering – GPA: 4.0/4.0  
Rutgers, The State University of New Jersey (USA)
- 9/1996 – 7/2001 BEng in Electrical Engineering – GPA: 91.9% with high distinction  
Palestine Polytechnic University (Palestine)

PhD Thesis: Robust state estimation and model validation techniques in computer vision.

MSc Thesis: Discrete-time system order-reduction via balancing transformation using the method of singular perturbations.

### **Certificates:**

- 4/2014 Industrial Automation Networking PLC and SCADA Software  
MedLink, Palestine Polytechnic University and Schneider Electric  
Hebron, Palestine
- 1/2012 Introduction to PLC Course – Training of Trainers  
Schneider Electric and MedLink  
Bethlehem, Palestine

### **Awards:**

- 2005 – 2008 National ICT Australia Research Scholarship to pursue PhD degree.
- 2003 – 2004 Fulbright Foreign Student Scholarship to pursue MSc degree.

### **Memberships:**

Jordanian Engineers Association – Jerusalem Center

### **Journal Publications:**

1. Efficient on-line detection scheme of voltage events using quadrature method  
F.R. Zaro, S.O. Al-Takrouri and M.A. Abido  
International Journal of Electrical and Electronic Engineering & Telecommunications, volume 8, issue 2, 2019, pages 95–102.
2. A decentralized flow redistribution algorithm for avoiding cascaded failures in complex networks  
S. Al-Takrouri and A.V. Savkin  
Physica A: Statistical Mechanics and its Applications, volume 392, issue 23, 2013, pages 6135–6145.
3. A model validation approach to texture recognition and inpainting  
S. Al-Takrouri and A.V. Savkin  
Pattern Recognition, volume 43, issue 6, 2010, pages: 2054–2067.
4. Discrete-time linear system order-reduction via balancing transformation using the method of singular perturbations  
S. Al-Takrouri and Z. Gajic  
Dynamics of Continuous Discrete and Impulsive Systems, Series B: Applications & Algorithms, volume 12-S, 2005, pages: 697–702.  
(Proceedings of the 4th International Conference on Engineering Applications and Computational Algorithms Guelph, Canada, 27–29 July, 2005)

5. Optimal three mode controller for high order discrete systems

N.N. Puri and S. Al-Takroui

Dynamics of Continuous Discrete and Impulsive Systems, Series B: Applications & Algorithms, volume 12-S, 2005, pages: 913–916.

(Proceedings of the 4th International Conference on Engineering Applications and Computational Algorithms Guelph, Canada, 27–29 July, 2005)

**Conference Papers:**

1. A decentralized control algorithm based on the DC power flow model for avoiding cascaded failures in power networks

S. Al-Takroui, A.V. Savkin and V.G. Agelidis

Proceedings of the Asian Control Conference (ASCC)

Istanbul, Turkey, 23–26 June, 2013.

2. A robust state estimation approach to video tracking

S. Al-Takroui and A.V. Savkin

Proceedings of the European Control Conference (ECC)

Budapest, Hungary, 23–26 August, 2009, pages: 1130–1135.

3. Motion estimation in medical image sequences using inverse polynomial interpolation

S. Al-Takroui and A.V. Savkin

Proceedings of the International Conference on Bio-inspired Systems and Signal Processing (Biosignals)

Funchal, Madeira – Portugal, 28–31 January, 2008, pages: 212–215.

4. A model validation approach to texture recognition

S. Al-Takroui and A.V. Savkin

Proceedings of the European Control Conference (ECC)

Kos, Greece, 2–5 July, 2007, pages: 1537–1544.

5. A model validation approach to robot motion segmentation in computer vision

S. Al-Takroui and A.V. Savkin

Proceedings of the IEEE International Conference on Control Applications (CCA)

Munich, Germany, 4–6 October, 2006, pages: 620–625.

6. Discrete system order-reduction via balancing transformation using singular perturbations

S. Al-Takroui and Z. Gajic

Proceedings of the IFAC World Congress

Prague, Czech Republic, 4–8 July 2005.

7. Optimal three mode controller for the high order time delay systems

N.N. Puri, S. Al-Takroui, C. Chang, and I. Yasar

Proceeding of the IASTED Intelligent Systems and Control Conference

Honolulu, Hawaii – USA, 23–25 August, 2004, pages: 168–173.