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CURRICULUM VITAE

Mae M A Irshaidat

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1. Personal Data

Date of Birth: 27/05/1986
Nationality: Jordanian

2. Education

- Ph.D. (Control and Robotics) 2018, University of Salford, Manchester, UK
- M.Sc. (Engineering Management) 2012, Greenwich University, Kent, UK
- B.Sc. (Computer Engineering) 2009, Albalqaa University, As-salt, Jordan

3. Ph.D. Dissertation

Design and Implementation of a Novel Lightweight Soft Upper Limb Exoskeleton Using Pneumatic Actuator Muscle, University of Salford, Manchester, UK.

4. Employment

Academic Positions

Assistant Professor, Power and Control Engineering, Al-Zaytoonah, University of Jordan, Amman, Jordan, November, 2019 – present.

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5. Research Interests

- Rehabilitation Robotics.
- Soft robotics.
- Control Systems.
- Machine Learning.
- Adaptive Control.

6. Membership in Scientific Societies and Associations

Jordan Engineering Association

7. Teaching Experience

Undergraduate Courses
- Control Systems.
- Advanced Control Systems.
- Digital Control Systems.
- Applied Physics Lab.
- Control Systems Lab.
- Engineering Applications.
- Electrical Machines Lab.
- Electrical Circuits I.

8. Professional Development Activities in the last six years
- Reviewer for the paper for RoboSoft 2022. (IEEE)
- Reviewer for the paper for RoboSoft 2020. (IEEE)

9. Publications

1) Irshaidat M., Soufian M., Al-Ibadi A., Nefti-Meziani S. (2018). A Novel Elbow Pneumatic Muscle Actuator for Exoskeleton Arm Rehabilitation. Manuscript accepted for IEEE RA-L and RoboSoft for publication Seoul, South Korea.
2) Irshaidat Mae., Soufian M., Nefti-Meziani S. (2019). Numerical modelling and design of a various pneumatic muscle actuators using ANSYS. Manuscript submitted for IEEE.
3) Y. Shehu, Mae Irshaidat and M. Soufian (2019) A FPGA Implementation of a Dual-Axis Solar Tracking System, accepted for IEEE DeSE 2019, Kazan
4) Mae Irshaidat, M. Soufian, A. Elkurdi and S. Nefti-Meziani (2019) Soft and Hard Robotics for Movement Rehabilitation, Analysis and Modelling, accepted for IEEE DeSE 2019 Kazan.
5) M. Soufian, Mae Irshaidat, G. Elliott, D. Mahood, L. Pendlebury, B. Hughes, N. Darbyshire, J. Williams, M. B. Lupu, J. W. Jenkins, D. Jones, N. Havery, G. Abadaki, T. Raynes and M. Babaie, (2019) Real-Time Emission Monitoring and Display to Reduce Vehicle Pollution Using Wireless Network, accepted for IEEE DeSE 2019 Kazan

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6) Irshaidat M., Soufian M., Nefti-Meziani S. (2019). Modelling, Analysis and Control System Design of a pneumatic muscle for rehabilitation. Manuscript in preparation to be submitted for International Journal of Robotics and Control.