

CV

Shadi A. Alboon

*Associate Prof. Electronics Eng. Dept., Hijjawi faculty for engineering Technology
College, Yarmouk University.*

EDUCATION

Degree	Discipline	Institution	Year
Ph.D.	Optoelectronics	UAH, USA	2008
M.S.	Optoelectronics	UAH, USA	2005
B.S.	Electronics Eng.	Yarmouk University, Jordan	1999

ACADEMIC EXPERIENCE

- Associate Professor at Electronics Eng. Department Hijjawi faculty for engineering technology, Yarmouk University, Irbid-Jordan, Jan. 2021 – present day. (Full time)
- Associate Professor at Electrical Eng. Department, college of engineering and technology, American University of the Middle East, Kuwait, Feb. 2020 – present day. (Full time)
- Assistant Professor at Electrical Eng. Department, college of engineering and technology, American University of the middle east, Kuwait, June 2015 – present day. (Full time)
- Assistant Professor at Electronics Eng. Department Hijjawi faculty for engineering technology, Yarmouk University, Irbid-Jordan, June 2008 – present day. (Full time)

PROFESSIONAL SOCIETY MEMBERSHIP

- IEEE (Senior Member) : Institute of Electrical and Electronics Engineers
- OSA: Optical Society of America
- SPIE: Society of Photo Optical Engineers
- Jordanian Engineers Association

HONORS AND AWARDS

- Research assistantship from University of Alabama in Huntsville to complete the Ph.D. degree in Electrical Engineering in USA (2004- 2008).
- Scholarship from Yarmouk University to complete the Ph.D. degree in Electrical Engineering in USA (2005- 2008).
- Engineering Dean's honor list, University of Alabama in Huntsville (2004, 2005).
Scholarship from Yarmouk University to complete the M.Sc. degree in Electrical Engineering in USA (2003- 2005).

SERVICE ACTIVITIES

- Assistant dean for scientific research, industrial relations and external communications. Hijjawi faculty for engineering technology, Yarmouk University, Irbid-Jordan, Sep 2010 – Sep 2012.
- Track Chair of the Communications and Electronics Track of the IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies 2015 (AEECT 2015).
- Member of the conference committee of the IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies 2015 (AEECT 2015).
- Member of the organizing committee of the 7th national technology parade 2014, Jordan.
- Member of the Yarmouk University student's affairs committee, 2012-2013 academic year.
- Member of the Yarmouk University council, 2012-2013 academic year.
- Supervisor of the electronics club for university students, 2013
- Member of the conference committee of the IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies 2013 (AEECT 2013).

FUNDED RESEARCH GRANTS

- Funded undergraduate students projects Principal supervisor: Dr. Shadi Alboon Project title " Smart Wireless Irrigation and Frost Protection System " The grant (2100 JD). This work was supported by King Abdullah II Fund for Development (KAJD) and supervised by King Abdullah II Design and Development Bureau (KADDB) / Scientific Research Department. Project No. [10/2010]

SELECTED PUBLICATIONS

❖ Patent

1. **Shadi A. Alboon**, and others, "Bio-Resonance Device for Extraction and Application of Special Therapeutic Frequencies", patent pending, applied in Jordan 2015.

❖ Journal Articles

1. Karar, A.S.; Ghandour, R.; Mahariq, I.; **S. A. Alboon**; Maaz, I.; Neji, B.; Barakat, J.M.H. A Programmable Mode-Locked Fiber Laser Using Phase-Only Pulse Shaping and the Genetic Algorithm. *Photonics* **2020**, *7*(3), 69.
2. Mahariq, I.; Abdeljawad, T.; Karar, A.S.; **S.A. Alboon**; Kurt, H.; Maslov, A.V. Photonic Nanojets and Whispering Gallery Modes in Smooth and Corrugated Micro-Cylinders under Point-Source Illumination. *Photonics* **2020**, *7*(3), 50.
3. Amin Alqudah, Ahmad M. Ashour and **S. A. Alboon**, "Controlling of Wind Turbine Generator System based on Genetic Fuzzy-PID Controller", International Journal of Advanced Trends in Computer Science and Engineering (IJATCSE), 9 (1), pp. 409-425, (2020).
4. **S. A. Alboon**, Abdullah Karar, Julien M. Barakat and Ibrahim Mahariq, "Investigation of a vertical optical coupler based on trapezoidal grating for symmetrical coupling", International Journal of Emerging Trends in Engineering Research (IJETER), 8 (2), pp. 277-280, (2020).
5. A.S. Karar, **S.A. Alboon**, I. Mahariq, "Time-resolved frequency chirp control of semiconductor lasers using digital signal processing", Optik, Volume 206, 164308, 2020
6. **S.A. Alboon**, A.S. Karar, I. Mahariq, B. Al-Sheikh, "Reconfigurable thin film filter for compensating AOI deviation effects using LC coupled cavities," Optics Communications, Volume 456, 124672, (2020).
7. Bahaa Al-Sheikh, Mohammad Shukri Salman, Alaa Eleyan and **Shadi A. Alboon**, "Non-invasive fetal ECG extraction using discrete wavelet transform recursive inverse adaptive algorithm, " Technology and Health Care, vol. 28, no. 5, pp. 507-520, (2020)
8. J. Alzoubi, **S. A. Alboon**, A. Alqudah, "Verification of the feed-forward control for a piezoelectric actuator using differential flatness approach". *Journal of Intelligent Material Systems and Structures*, *30*(3), 438–444 (2019)
9. Aytekin Özdemir, Nazmi Yılmaz, **S. A. Alboon**, Yuzuru Takashima, and Hamza Kurt, "Analysis of the focusing crosstalk effects of broadband all-dielectric planar metasurface microlens arrays for ultra-compact optical device applications," OSA Continuum *1*(2), 506-520 (2018)

PROFESSIONAL DEVELOPMENT ACTIVITIES

- Yarmouk University IEEE student branch counselor 2011 - 2015
- Information Days on FP7 and the ICT Themes, 26-28 Sep 2011. The higher council for science and technology (HCST), Amman – Jordan.
- Member of the Standard Curriculum Task Force, Intel Entrepreneurship Programs in Middle East.
- TOT - Collaborative Workshop To Innovate, Accelerate and Integrate Your Entrepreneurship Program, Queen Rania Centre for Entrepreneurship, Amman 13-14/9/2011
- Research Capability Building Workshop, Yarmouk University, Feb 2011 -
- Tempus Day, Jordan-European Union Higher Education cooperation Day, 15th Dec 2010. Jordan University.
- Information Days on FP7 and the ICT Themes, 11-13 Oct 2010. The higher council for science and technology (HCST), Amman – Jordan.