

Bilal Ahmad Jarrah

Email: bajarra@just.edu.jo

EDUCATION

- | | |
|------------------|--|
| 2013 – June 2020 | University of Ottawa, PhD.
Major: Mechanical Engineering/Applied Mechanics
Supervisor: Dan Neculescu |
| 1993 - 1996 | Jordan University of Science & Technology, Master
Major: Mechanical Engineering
Supervisor: Mahmoud Tahat. |
| 1988 - 1993 | Jordan University of Science & Technology, Bachelor
Major: Mechanical Engineering |

ACADEMIC EMPLOYMENT

- | | |
|-------------------------------|--|
| September 2025 - Present | Assistant Professor , Jordan University of Science & Technology |
| October 2022 - September 2025 | Assistant Professor , Amman Arab University |
| October 2020 - September 2022 | Assistant Professor , National University College of technology |
| January 2001 - July 2009 | Lecturer , Buriadeh Technical College |
| September 1993 - June 1996 | Teaching Assistant , Jordan University of Science & Technology |

INDUSTRIAL EMPLOYMENT

- | | |
|--------------------------|---|
| October 2009 - July 2013 | Maintenance Engineer , Ministry of Public Work, Jordan |
|--------------------------|---|

August 1998 -
August 2000

Service Advisor, Toyota company, Saudi Arabia

HONORS AND AWARDS

2009 **Teaching Award**, Awarded by Buriadeh Technical College.

JOURNAL PAPERS

Jarrah, Bilal & Neculescu, Dan & Ali, Malek & Al Assaf, Anwar H. (2024). Two-Layer Thin Plate Temperature Control. *Jordan Journal of Mechanical and Industrial Engineering*. 18. 485-496. 10.59038/jjmie/180304.

Al Assaf, Anwar H & Ahmed, Abrar & Mahaftha, Dima & Amhamed, Abdulkarem & **Jarrah, Bilal** & Alrebei, Odi. (2024). NH₃-H₂-Working Fluid-based Shell and Tube Heat Exchanger and the H₂O-to-H₂O Helical Heat Exchanger: A Novel Integration to Ammonia Production Plants. *Jordan Journal of Mechanical and Industrial Engineering*. 18. 267- 285. 10.59038/jjmie/180202.

M. Tahat, Z. Kodah, **B. Jarrah**, and S.D Probert. Heat Transfers from Pin-Fin Arrays Experiencing Forced Convection, *Journal of Applied Energy*, issue 67, vol. 4 pp. 419-442, Nov. 2000.

CONFERENCE PRESENTATIONS

TALKS

Neculescu, D. S., and **Jarrah, B. A.** (2016). Real-Time Temperature Control of Thin Plates. Talk presented at the *3rd International Conference on Control, Dynamic Systems, and Robotics (CDSR'16)*, Ottawa, Canada.

Neculescu, D. S., and **Jarrah, B. A.** (2017). Real-Time Temperature control of a One-Dimensional Metal Plate. Talk presented at the *21st International Conference on Control Systems and Computer Science*, Bucharest, Romania.

Neculescu, D. S., **Jarrah, B. A.**, and Sasiadek, J. Z. (2018). Experimental Verification for Closed Loop Control of Thin Plate Surface Temperature. Talk presented at the *International Conference on Automation, Quality and Testing, Robotics, AQTR 2018 (THETA 21)*, Cluj-Napoca, Romania.

POSTERS

Necsulescu, D. S., **Jarrah, B. A.**, and Sasiadek, J. Z. (2019). Fractional Controller for Thin Plate Surface Temperature Control. *Poster presented at the 16th International Conference on Informatics in Control, Automation and Robotics (ICINCO 2019)*, Prague, Czech Republic.

Necsulescu, D. S., **Jarrah, B. A.**, and Sasiadek, J. Z. (2016). Closed - Loop Control of Plate Temperature using Inverse Problem. *Poster presented at the 13th International Conference on Informatics in Control, Automation and Robotics (ICINCO 2016)*, Lisbon, Portugal.

TEACHING INTERESTS _____

Lectures: Piston Engines, Turbine Airoplane Aerodynamic Structures & Systems, Control, Airframes dynamics, Mechanical vibrations, Numerical, Applied mathematics, Dynamics, Statics, Mechanical drawing, and Engineering drawing.

LANGUAGES _____

English: Excellent.

Arabic: Native speaker.