# Recent Publications:

## Recent Major Journal Publications:

- A. Nour et al., "Remaining Useful Life Predictor for EV Batteries Using Machine Learning," in IEEE Access, vol. 12, pp. 134418-134426, 2024, doi: 10.1109/ACCESS.2024.3461802.

- Sara Bunian, Meshari A. Al-Ebrahim, **Amro A. Nour**, "Role and Applications of Artificial Intelligence and Machine Learning in Manufacturing Engineering: A Review," Engineered Science, 2023, doi: 10.30919/es1088

- Meshari A. Al-Ebrahim, Sara Bunian, **Amro A. Nour**, "Recent Machine-Learning-Driven Developments in E-Commerce: Current Challenges and Future Perspectives," Engineered Science, 2023, doi: 10.30919/es1044

- Meshal F. Alhasan, Khaled M. Alanezi, Sabah A.S. Alali, Meshari A. Al-Ebrahim, Sara Bunian, **Amro A. Nour**, "Thermal-hydraulic characteristics of nitric acid: An experimental and numerical analysis," Heliyon, 2023, e23089, ISSN 2405-8440, https://doi.org/10.1016/j.heliyon.2023.e23089.

- D. Swain, V. Rupapara, **Amro Nour**, S. Satapathy, B. Acharya, S. Mishra, A. Bostani, "A Deep Learning Framework for the Classification of Brazilian Coins," in IEEE Access, doi: 10.1109/ACCESS.2023.3321428.

- Jian Huang, Arul Kulandaivel, **Amro A. Nour**, Murugan Perumal, Mohamad Reda A. Refaai, Thi Kim Yen Nguyen, "Achieving High-Efficiency LaFeO3/CoS2 Nanocomposite Electromagnetic Wave Absorber for X-band Stealth Applications," Surfaces and Interfaces, 2023, 103329, ISSN 2468-0230, https://doi.org/10.1016/j.surfin.2023.103329.

- **Amro A. Nour,** Abolfazl Mehbodniya, Julian L. Webber, Ali Bostani, Bhoomi Shah, Beknazarov Zafarjon Ergashevich, Sathishkumar K, "Optimizing intrusion detection in industrial cyber-physical systems through transfer learning approaches," Computers and Electrical Engineering, Volume 111, Part A, 2023, 108929, ISSN 0045-7906, https://doi.org/10.1016/j.compeleceng.2023.108929.

- Sabah A Alali, Meshari Al-Ebrahim, Sara Bunian, **Amro A. Nour**, "SMART FLOOD MONITORING SYSTEM," 2023, Journal of Southwest Jiatong University-Vol.58 (4) July, 2023, doi: 10.35741/issn.0258-2724.58.4.13

- **Nour, Amro** A., et al. "*A Tapered Fork-Shaped Antenna With Small Ground Plane for UWB Applications.*" IJITN vol.13, no.1 2021: pp.13-24. http://doi.org/10.4018/IJITN.2021010102

- **Amro A. Nour**, Faycel Fezai, Marc Thevenot, Eric Arnaud, Thierry Monediere, *"A Circularly Polarized Square Microstrip Parasitic Antenna with an Improved Bandwidth,"* Wiley: Microwave and Optical Technology Letter (2016).

- Amin Behdad, **Amro Nour**, Arash Zereshkian, Cesar Marquez-Chin, Milos R. Popovic: Identification of Intended Arm Movement Using Electrocorticographic Signals. CoRR abs/1610.04967 (2016).

## Recent International Conferences and Conference Proceedings:

- **Amro A. Nour**, "Investigating Different Coil Configurations During Magnetic Nanoparticles Hyperthermia for Prostate Cancer," 2023 Photonics & Electromagnetics Research Symposium (PIERS), Prague, Czech Republic, 2023, pp. 1285-1290, doi: 10.1109/PIERS59004.2023.10221303.

- **A. A. Nour** and F. Shubitidze, "*Alternating Magnetic Field Coils Optimization for Magnetic Nanoparticles Hyperthermia,*" *2021 IEEE 26th International Seminar/Workshop on Direct and Inverse Problems of Electromagnetic and Acoustic Wave Theory (DIPED)*, 2021, pp. 191-194, doi: 10.1109/DIPED53165.2021.9552299.

- **A. A. Nour** and F. Shubitidze, *"Effect of Human Conductivity Distributions during Magnetic Nanoparticles Hyperthermia," 2021 Photonics & Electromagnetics Research Symposium (PIERS)*, 2021, pp. 462-466, doi: 10.1109/PIERS53385.2021.9694825.

- A. Jaesim, N. Siasi, M. Ababneh, M. Elkourdi and A. Nour, "Application-Specific Service Function Chain Provisioning in Heterogeneous Fog Networks," 2020 IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS), 2020, pp. 1-6, doi: 10.1109/ANTS50601.2020.9342810.

- Islam Mansour, Abdullah AlKhashan, Ali Bostani, Amro Nour, "Design and Fabrication of a Dual Band Low Profile Antenna for Smart Tracking in Oil Fields," IET, Smart Cities Symposium 2018.

- **Amro A. Nour**, Ali Bostani, *"An Electromagnetic Band gap structure to stop the leakage from microwave cavities,"* IEEE, 2017 IEEE MTT-S International Conference on Numerical Electromagnetic and Multiphysics Modeling and Optimization for RF, Microwave, and Terahertz Applications (NEMO) – 2017.

- **Amro A. Nour,** Ali Bostani, Girish Awadhwal, *"A Low Profile Dual Band Wideband Patch Antenna,"* IEEE, 2017 IEEE MTT-S International Conference on Numerical Electromagnetic and Multiphysics Modeling and Optimization for RF, Microwave, and Terahertz Applications (NEMO) – 2017.

- **Amro A. Nour**, Faycel Fezai, Thierry Monediere, *"Comparison of Different Feeding Techniques of a Low-Profile Dual-band Circularly Polarized Microstrip Antenna,"* IEEE, 9th European Conference on Antennas and Propagation EuCAP 2016.

- Faycel Fezai, **Amro A. Nour**, Johann Sence, Thierry Monediere, François Torres, Regis Chantalat, Stéphane Bila, Bernard Jarry, *"Low-Profile Dual-band Circularly Polarized Microstrip Antenna for GNSS Applications,"* IET, 10th European Conference on Antennas and Propagation EuCAP 2015.