Academic Curriculum Vitae

Personal Information:

Full Name: Dr. Haidar Jalal Ismail
Academic Title: Assist. Prof.
Email: haidar.ismail@su.edu.krd
Mobile: +9647504531623

Education:

- Ph.D. of Science (Biophysics), 2012
  Dept. of Pharmacology & Biophysics, College of Medicine
  Hawler Medical University /Hawler, Kurdistan Region, Iraq.
  Thesis Title: 'Analysis of Oncogenic Cell Receptors Status in Breast Cancer Images'
  Thesis Supervisor: Asist. Prof. Dr. Salah Abu-Baker Ali, Asist. Prof. Dr. Sardar Pirkhider Yaba

- Master of Science (Physics), 2003
  Dept. of Physics, College of Education
  University of Salahaddin /Hawler, Kurdistan Region, Iraq.
  Thesis Title: 'Supercurrent distribution in uniform and non-uniform Grain boundary Josephson junction and its use as a magnetometer'.
  Thesis Supervisor: Asist. Prof. Dr. Saeed O. Ibrahim

- Bachelor of Science (Physics), 1993 – 1994.
  Dept. of Physics, College of Education
  University of Salahaddin /Hawler, Kurdistan Region, Iraq.

Employment:

- 14/12/1994 -1/6/2000
  Demonstrator, Dept. of Physics, College of Education,
  University of Salahaddin / Hawler, Kurdistan Region, Iraq.

- 6/4/2003 -3/5/2007
  Assistance lecturer, Dept. of Physics, College of Education,
  University of Salahaddin / Hawler, Kurdistan Region, Iraq.
- 4/4/2007-26/11/2017
  Lecturer, Dept. of Physics, College of Education
  University of Salahaddin /Hawler, Kurdistan Region, Iraq.
- 27/11/2017-present
  Assist. Prof., Dept. of Physics, College of Education
  University of Salahaddin /Hawler, Kurdistan Region, Iraq.

Qualifications

- Teaching qualifications:
  Ph.D. of Science (Biophysics), 2012
  Master of Science (Physics), 2003
  Bachelor of Science (Physics), 1993 – 1994.
- IT qualifications:
  ICDL, Programing(Matlab, Mathcad, Basic, Python), Artificial Intelligence(AI), Statistics(SPSS, Origin)

Teaching experience:

- Teaching(undergraduate or post graduate)
  Circuit Analysis (2^{nd} year), Programing(Matlab, 2^{nd} year), Research methods(4^{th} year). Medical Imaging (4^{th} year, Science college), Fluid Dynamic (2^{nd} stage), Thermodynamic(2^{nd} stage)
- Medical Image processing (MSc, PhD), Research methods and Writing(MSc), Programing(Matlab, MSC, PhD), Electromagnetic Computation by Matlab(PhD)
- Nuclear Lab.(4^{th} year), Electronic Lab.(3^{rd} year), Atomic Lab.(3^{rd} year), General physics Lab.(1^{st} year), Electricity and Magnetism Lab.(1^{st} year), Adv. Electricity and Magnetism Lab. (2^{nd} year)

Research and publications

1. Abduljabbar, H. N., Ismail, H. J., & Perxdr, S. Y. Improve differentiation of Breast mass using fuzzy segmentation method.
2. Barzinjy, A., Ismail, H., & Hamad, S. (2019). A Theoretical Analysis of Transport Characteristics of Nanoparticles in Porous Medium. Eurasian Journal of Science and Engineering, 4, 3-18. doi:10.23918/eajse.v4i3sip3
3. Barzinjy, A. A., Jabbar, K. Q., & Ismael, H. J. (2015). MODELLING OF MILD STEEL CORROSION USING COMSOL MULTIPHYSICS. Paper presented at the ICEEE 2015 CONFERENCE.

4. Barzinjy, A. A. A., Ismail, H. J., & Ameen, M. M. (2017). Mathematical Modeling of Sampling, Quantization, and Coding in Sigma Delta Converter using Matlab. UHD Journal of Science and Technology, 1(1), 17-22.
5. Haidar Jalal Ismail, A. A. B., and Samir Mustafa Hamad. (2019). Analysis of Nanopore Structure Images Using MATLAB Software. Eurasian Journal of Science & Engineering, 3(4), 84-93.
6. Hamad, M., Barzinjy, A., Ismail, H., Hamad, S., & Hamad, M. (2019). Enhancement of emission and directionality of Light Emitting Diode using Surface Plasmon Resonance. 29, s201-s209.
7. Ismail, H. J. (2001). Width and Temperature Effects on the Diffraction Pattern of Small Annular Josephson junction and Its Possibility to Acts as a Magnetometer. ZJPAS, 13(1).
8. Ismail, H. J. (2016). Theoretical investigation of diabetic urine detection by surface plasmon resonance sensor. ZJPAS, 28(3), 49-54.
9. Ismail, H. J. (2017). Efficient Segmentation of ultrasound images of abnormal kidney. ZJPAS, 28(3).
10. Ismail, H. J., Baker, S. A., & Yaba, S. P. (2013). Enhanced Accuracy and Reliability of ER and PR IHC Scoring Using ANN from Digital Microscope Images. Middle East Journal of Internal Medicine, 6(5).
11. Ismail, H. J., Barzinjy, A. A. A., & Jabbar, K. Q. (2017). Estimation of Nano-Pore Size Using Image Processing. UHD Journal of Science and Technology, 1(1), 38-44.
12. Mudhaffer M. Ameen, A. S. M., and Haidar J. Ismail. (2003). Analysis of Circular Microstrip Antenna on Thin Substrate. ZJPAS, 15(1).
13. Nabiel M. Nasier, A. A. A., and H. J. Ismail. (2011). Theoretical investigation of traps effect on solar cell characteristics. ATTI DELLA Fondazione Giorgio Ronchi, Anno LXVI, 5.
14. Naser, N. M., Ismail, H. J., & Mawlud, S. Q. (2013). Theoretical Study of Influence of Some Material Parameters on Solar Cell Efficiency. Science Journal of University of Zakho, 1(2).
15. Saeed O. Ibrahiem, H. J. I. (2005). Modeling Uniform and Non-Uniform High Temperature Superconducting Grain Boundary Josephson Junction as a Magnetometer. ZJPAS, 17(2).
16. Rasool, D. A., Ismail, H. J., & Yaba, S. P. (2023). Fully automatic carotid arterial stiffness assessment from ultrasound videos based on machine learning. *Physical and Engineering Sciences in Medicine*, *46*(1), 151-164. https://doi.org/10.1007/s13246-022-01206-3

Conferences and courses attended

1. Nabiel M. Nasier, H. J. I. a. A. A. A. (2010). Theoretical study of some parameters for Photovoltaic modules using MATLAB model. Seventh scientific conference of AL-Mustansirya University.
2. Ismael, H. J. Using Image Processing to Detect Edges of The Dukan Lake, Kurdistan Region, Iraq.

Funding and academic awards

- NA

Professional memberships

- Kurdistan Teacher Syndicate, since 1995
- Kurdistan Physicist Syndicate, since 2006
- Iraqi Medical Physics Society (IMPS)

Professional Social Network Accounts:

- Google Scholar
  https://scholar.google.com/citations?hl=en&user=EIOUqnkAAAAJ
- ResearchGate

https://www.researchgate.net/profile/Haidar-Ismail

- Linkedin
  https://www.linkedin.com/in/haidar-ismail-b6bbb014/
- Orcid
  https://orcid.org/0000-0001-7370-7486