Kambiz Moradi

E-mail: kambizmoradi2009@gmail.com
WebSite: kambizmoradi.ir
Mobile: +98 918 553 3393
LinkedIn: LinkedIn.com/in/kambizmoradi
ResearchGate: researchgate.net/profile/Kambiz-Moradi-4

Education

- Bachelor of Science in Robotic Engineering,
  - Hamedan University of Technology, 2017
  - Dissertation: *Carbon Nanotube Natural Frequencies*
  - GPA: 3.57/4 (16.85/20 and average of the field was 13.9/20)
  - Top 3

Research Interests

- Simulations
- Computing

Pulicated Papers

1. Payandehpeyman, J., Parvini, N., Moradi, K. & Hashemian, N. Design and finite element modeling of two–dimensional nanomechanical biosensors for SARS–CoV–2 detection. *Diamond and Related Materials,* 109263. ISSN: 09259635. https://doi.org/10.1016/j.diamond.2022.109263 (2022) (July 22, 2022).
2. Payandehpeyman, J., Moradi, K., Shayesteh Zeraati, A. & Goodarzi Hosseinabadi, H. Vibrational Behavior of Defective and Repaired Carbon Nanotubes Under Thermal Loading: A Stochastic Molecular Mechanics Study. *Mechanics of Materials,* 104058. ISSN: 0167-6636. https://doi.org/10.1016/j.mechmat.2021.104058 (Sept. 11, 2021).
3. Payandehpeyman, J., Parvini, N., Moradi, K. & Hashemian, N. Detection of Sars-Cov-2 Using Antibody–Antigen Interactions with Graphene-Based Nanomechanical Resonator Sensors. *ACS Applied Nano Materials* **4.** Publisher: American Chemical Society, 6189–6200. https://doi.org/10.1021/acsanm.1c00983 (June 25, 2021).
4. Payandehpeyman, J. & Moradi, K. Effect of Temperature on Vibrations and Buckling Behavior of Carbon Nanotube-Based Mass Sensors Using a New Temperature-Dependent Structural Model. *Physica E: Low-dimensional Systems and Nanostructures* **106,** 258–269. ISSN: 1386-9477. https://doi.org/10.1016/j.physe.2018.09.027 (Feb. 2019).

Confrence:

- Payandehpeyman, J., Naghipour, S., & Moradi, K. Nonlinear Analysis of Buckling and Postbuckling of Defected Single Walled Carbon Nanotube under Bending Loading. *7th International Conference on Nanostructures (ICN7), Tehran, Iran* 650–652. http://icns7.sharif.ir/data/cnf1487767378/uploads/06_CAR.pdf (May 2018)

Persian:

1. Payandehpeyman, J., Hajizadeh, M., Moradi, K. & Nourouzi, M. Investigating The Effect of Reconstruction of Structural Defects On The Vibrational Properties of Graphene. *The 2nd Iran Conference On Industial Applications of Advanced Materials and Manufacturing.* https://civilica.com/doc/1493603. (Jul 2022)

2. Payandehpeyman, J., Khezry, M. & Moradi, K. Investigating The Effect of Vacancy Defects Repairing on The Bending Properties of Canbon Nanotubes. *The 2nd Iran Conference On Industial Applications of Advanced Materials and Manufacturing*. https://civilica.com/doc/1493602/. (Jul 2022)
3. Payandehpeyman, J., Naghibi, Z. & Moradi, K. Predicting The Behavior of Graphene Biosensors Using Artificial Neural Networks. *The 6th National Conference on Electrical Engineering and Intelligent Systems*. https://civilica.com/doc/1486125/. (Jun 2022)
4. Naghibi, Z., Payandehpeyman, J. & Moradi, K. Investigating The Effect of Temperature on The Efficiency of Nanomechanical Sensors Using Static Neural Network. *The 1st International Conference On The Application of Engineering to The Future of Iran-Iraq Relations*. (May 2022)
5. Payandehpeyman, J., Naghibi, Z. & Moradi, K. Modeling The Vibrational Behavior of Carbon Nanotubes Using Dynamic Neural Networks. *The 1st International Conference On The Application of Engineering to The Future of Iran-Iraq Relations*. (May 2022)

Computer Skills

- **GNU/Linux:** Scientific linux(7.9), Debian(10/9), Arch Linux
- **Programming Languages:** Python, Shell Script, Matlab, VBA(Excel)
- **Database:** MariaDB, Microsoft Access
- **Virtualization:** Proxmox, VirtualBox
- **CAD/CAE:** Solidworks, Mechanical APDL(ANSYS), AutoCad
- **Other:** Git, MS Office

Language:

- **IELTS:** *Will be taken soon*
- **Kurdish:** Native
- **Persian:** Native

Certificates

- **LPIC1:** *Will be taken soon*
- Maintain and Repair Industrial Electrical Machines and Drives, Kermanshah Vocational and Technical Department, Graduated with GPA-A, 2017

Professional Experience

- Research Assistant, Finite Element Method in Bio-Sensors and Carbon Structures(Remote), Hamedan University of Technology.
  Apr 2020 – Present (Full Time)
- Educator ,Variety of Engineering Courses and Softwares, Reels Academy
  Oct 2016 – Mar 2020 (Full Time)

Educator/Teacher Assistant (Part Time)

- Educator, Python, Tehran University. Aug 2022 – Sep 2022 (Online)
- Educator, Python, Tehran University. Feb 2022 – Mar 2022 (Online)
- Educator, Python, Alzahra University. Nov 2021 – Jan 2022 (Online)
- Educator, Python, Iran University of Science and Technology. Oct 2020 – Dec 2020 (Online)
- Educator, Matlab and Simulink, Islamic Azad University Kermanshah Branch. Jun 2019 – Oct 2019
- Educator, Python, Razi University. Apr 2019 – May 2019
- Teacher Assistant, Linear Control Systems, Hamedan University of Technology. Sep 2015 – Jun 2016

Refrences

- Dr. Javad Payandehpeyman: Department of Mechanical Engineering, Hamedan University of Technology, Hamedan, Iran, Email: j.payandehpeyman@gmail.com