Personal Details

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Education Background

Master of Science in Mechanical Engineering (system control, dynamic and vibrations)
School of Mechanical Engineering, University of Tehran, Tehran, Iran
September 2015- September 2017

Bachelor of Science in Mechanical Engineering
School of Mechanical Engineering, Shiraz University, Shiraz, Iran
September 2011- September 2015

Research Experience

- Research Assistant at NSF I/UCRC for Intelligent Maintenance Systems (IMS)
    - Smart Additive Manufacturing (IMS and UC-DDLC Center)
    - Feasibility study of resistor manufacturing (Liz Electronics)
- Research Assistant at Proctor & Gamble (P&G)
    - Working as data scientist for the Perfect Filling project
- Visiting researcher at Small Medical Devices, Lab-on-a-Chip & BioMEMS lab

Peer Reviewed Journal Publications

- Deep learning-based cross-sensor domain adaptation for fault diagnosis of electro-mechanical actuators
  Shahin Siahpour, Xiang Li, Jay Lee
  International Journal of Dynamics and Control, 2020
  DOI: https://doi.org/10.1007/s40435-020-00669-0

- Integration of digital twin and deep learning in cyber-physical systems: towards smart manufacturing
  Jay Lee, Moslem Azamfar, Jaskaran Singh, **Shahin Siahpour**
  IET Collaborative Intelligent Manufacturing, 2020
  DOI: https://doi.org/10.1049/iet-cim.2020.0009

- A novel aerodynamic controllable roof for improving performance of INVELOX wind delivery system
  Ali Golozar, Farzad A Shirazi, **Shahin Siahpour**, Fardad N Khakiani, Kambiz Gaemi Osguei
  Wind Engineering, 2020
  DOI: https://doi.org/10.1177%2F0309524X20910986

- Effect of added mass distribution on the dynamic PI and frequency shifting in MEMS and NEMS Biosensors
  Mohammad Mousavi, Mehdi Moghimi Zand, **Shahin Siahpour**
  Microsystem Technologies, 2020

- Dynamics and vibrations of particle-sensing MEMS considering thermal and electrostatic actuation.
  Shahin Siahpour, Mehdi Moghimi Zand, Mohammad Mousavi
  Microsystem Technologies, 2018
  DOI: https://doi.org/10.1007/s00542-017-3554-y

- Thermal study of domed roofs in a traditional bazaar (the case of old Ganj-Alikhan bazaar in Kerman, Iran).
  Erfan Sedighi, Mahmoud Yaghoubi, Mohammad Mousavi, **Shahin Siahpour**
  Energy for Sustainable Development, 2017
  DOI: https://doi.org/10.1016/j.esd.2017.04.002

Conference Proceeding

- A Deep Learning Framework For Health Anomaly Detection of Multi-component Systems in Evolving Environments: A Case Study in PHM
  Shahin Siahpour, Abhijeet Ainapure, Xiang Li, Jay Lee
  The 30th european safety and reliability conference, 2020, Italy.

- Deep learning-based intelligent process monitoring of directed energy deposition in additive manufacturing with thermal images
  Xiang Li, **Shahin Siahpour**, Jay Lee, Yachao Wang, Jing Shi
  48th sme north american manufacturing research conference, 2020.USA
  DOI: https://doi.org/10.1016/j.promfg.2020.05.093

- Investigation of summer comfort in traditional bazaar with domical roof.
  Shahin Siahpour, Mahmoud Yaghoubi, Mohammad Mousavi, Erfan Sedighi
  International Conference on Mechanical Engineering **(ISME), 2016, Iran**

- Experimental investigation and modeling of solar radiation and thermal distribution over domical roofs.
  Mohammad Mousavi, Mahmoud Yaghoubi, Erfan Sedighi, **Shahin Siahpour**,
  International Conference on Mechanical Engineering **(ISME), 2016, Iran**

Computer and Programing Skills

Programing:

- MATLAB (Programming and Simulink)
- Python
- Arduino

Engineering Software:

- Catia
- SolidWorks
- AutoCAD
- COMSOL Multiphysics
- Abaqus
- MSC ADAMS

Languages

- Persian (Native)
- English (Fluent)
- German (Intermediate)
- Arabic (Basic)