Mojtaba Porghoveh

Personal Information

- Birth: May 2, 1988
- Google Shcolar Page: https://scholar.google.com/citations?user=hijmxW4AAAAJ&hl=en

Work Experience

Decemner 2021 — Present	
Industry Relation Office of Shahid Chamran University	Ahvaz, Iran
Researcher	
Python and Matlab	
I have been working on optimal array sensors to estimate acourany arbitrary point inside an enclosure	stic pressure at
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July 2020 — Present (Part Time)	
Taha Ghaleb Tous Corporation	Mashhad, Iran
Development Manager	
Fixtures and heat exchangers are built in this company, I work o	n the optimiza-
tion of the production chain.	•
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September 2020 — February 2021	
Shahid Chamran University	Ahvaz, Iran
Lecturer	
I tought meta-heuristic optimization algorithm with coding	in Matlab and
Python.	
May 2019 — August 2020 (Part Time)	
National Elite Foundation	Λ1 T
National Ente Foundation	Ahvaz, Iran
Researcher	Anvaz, Iran
	Researcher Python and Matlab I have been working on optimal array sensors to estimate acoust any arbitrary point inside an enclosure July 2020 — Present (Part Time) Taha Ghaleb Tous Corporation Development Manager Fixtures and heat exchangers are built in this company, I work of tion of the production chain. September 2020 — February 2021 Shahid Chamran University Lecturer I tought meta-heuristic optimization algorithm with coding Python. May 2019 — August 2020 (Part Time)

EDUCATION

Period	2016 — 2021	
Degree	Ph.D. in Mechanical Engineering	
Rank	First Class Honours	
University	Shahid Chamran Universiy of Ahvaz	Ahvaz, Iran

⊠ MDJ.PRG@OUTLOOK.COM

PERIOD **2011** — **2014**

Degree MSc. in Mechanical Engineering

RANK First Class Honours

UNIVERSITY IAUM Mashhad, Iran

Period **2006 — 2011**

Degree BS. in Mechanical Engineering

UNIVERSITY IAUM Mashhad, Iran

Research Interests

Optimization, Vibration, Acoustics, Active Control Systems, Robotics, Artificial Intelligence

SKILLS

Computer Languages Python, Julia, Matlab

Languages Persian (Mother tongue), English (Proficient)

Computer Skills COMSOL, Autocad, Maple, Microsoft Office, Latex

Publications

• Porghoveh, M., Shirazi, K. H., & Yildizdag, M. E. (2023). Developing an optimum sensor array for acoustic pressure estimation inside an enclosure using evolutionary-based optimization algorithms. Applied Acoustics, (Under Review).

- Porghoveh, M., Shirazi, K. H., & Yildizdag, M. E. (2022). Engine noise cancellation with optimum array of speakers inside vehicle enclosures. Journal of Vibration and Control, 10775463221122126.
- Porghoveh, M., Heidari Shirazi, K., Messia, A., & Yildizdag, M. E. (2022). A PSO-based computational framework to design active noise cancelation systems for smart vehicle enclosures.
 Mathematics and Mechanics of Solids, 27(10), 2073-2084.
- Porghoveh, M., Shirazi, K. H., & Yildizdag, M. E. (2021). A fast analytical framework to identify
 acoustic field properties of rectangular enclosures with a vibrating plate. Applied Acoustics, 182,
 108185.
- Jorfi, S., Ghahari, S., Ravanbakhsh, M., Porghoveh, M. Spirogyra sp. isolate gh-2 small subunit ribosomal RNA gene, partial sequence. Environmental Health Engineeing.
- Jahanpour, J., Porghoveh, M., & Ilbeigi, S. (2016). Forced vibration analysis of a system equipped with a Nonlinear Displacement-Dependent (NDD) damper. Scientia Iranica. Transaction B, Mechanical Engineering, 23(2), 633.
- Jahanpour, J., Porghoveh, M. & Ilbeigi, S. (2016). Resonant analysis of systems equipped with nonlinear displacement-dependent (NDD) dampers. Journal of Nonlinear Dynamics, Volume 1 (pp. 67-82). Springer, Cham.
- Jahanpour, J., Porghoveh, M. & Motallebi, M. (2016). A novel trajectory planning scheme for parallel machining robots enhanced with NURBS curves. Journal of Intelligent & Robotic Systems, 82(2), 257-275
- Jalalvand, M., Porghoveh, M, & Pouyesh K. Optimum position control of a servopneumatic system using GA and pulse width modulation with sliding mode control. Journal of Advanced Modeling and Optimization.

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PATENTS

IR 95162:	Controllable Static/Dynamic Humanoid Robot for Warning Announce-
	ment Capable of Flagger and Tracking devic

GENBANK: Bio-Filter: Spirogyra sp. isolate gh-2 small subunit ribosomal RNA gene, partial sequence https://www.ncbi.nlm.nih.gov/nuccore/ MW063644.1: MW063644

Internships

Research	International Research Center on Mathematics and Mechanics of Com-
Fellow	plex Systems
Period	Aug. 2019 — Feb. 2020
University	L'Aquila University Roma, Italy
Research	Ship Vibrations and Acoustic Laboratory
Fellow	
Period	Sep. 2020 — Aug. 2021
University	Istanbul Technical University Istanbul, Turkey

RESEARCH PROJECTS

- Jerk and acceleration minimization in the joint of 4U-PS robots by trajectory planning.
- Maximization of the machinary speed by optimizing the trajectory of a machinary path.
- · Minimizing the sensor numbers in an array of speakers and microphones for an active noise control system.
- Optimum contol system design for a PSS turbine used in powerstations.
- Active engine noise cancellation system desig in vehicles.
- Nonlinear damper design for reducing vibrations in a mass-spring-damper system with general applications.

REFERENCES

- Kourosh Heidari Shirazi, Professor of Mechanical Engineering. Chamran University of Ahvaz, Ira. email: k.shirazi@scu.ac.ir
- Afshin Ghanbarzadeh, Professor of Mechanical Engineering Chamran University of Ahvaz, Iran. email: ghanbarzadeh.a@scu.ac.ir
- Javad Jahanpour Professor of Mechanical Engineering Azad University of Mashhad, Iran. email: jahanpourfr@mshdiau.ac.ir
- Erden Yirdizdag Associate Professor of Mechanical Engineering Technical University of Istanbul, Turkey. email: erdenyildizdag@gmail.com