



## Mohsen Irani Rahaghi

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College: Faculty of Mechanical Engineering

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### Education

Degree	Graduated in	Major	University
BSc	2002	Mechanical Engineering	Isfahan University of technology (IUT),
MSc	2005	Mechanic of Flight	Khaje Nasir al Din Toosi University of technology (KNTU),
Doctoral	2012	Mechanical Engineering	Iran University of Science & technology (IUST),

### Papers in Conferences

1. [حمید اصولی, رضا احمدزاده, Design and Evaluation of a Bioinspired Tendon-Driven 3D-Printed Robotic Eye with Active Vision Capabilities ,2023 20th International Conference on Ubiquitous Robots \(UR\) ,12 - Honolulu, Hawaii ,2023 06 25 .](#)

### Papers in Journals

1. [Milad Hasani, Mohsen Irani Rahaghi,The optimization of an electromagnetic vibration energy harvester based on developed electromagnetic damping models,Energy Conversion and Management,2022.](#)
2. [Mohammad Jafari Niasar, Mohsen Irani Rahaghi, Ali Asghar Jafari,Optimal location of FG actuator/sensor patches on an FG rotating conical shell for active control of vibration,Acta Mechanica,2022.](#)
3. [Mohammad Jafari Niasar, Mohammad Javad Babaei, Ali Asghar Jafari, Mohsen Irani Rahaghi,Vibration analysis of a porous hollow conical rotor with circumferentially distributed piezoceramic strips,Mechanics Based Design of Structures and Machines,2022.](#)
4. [Yaser Heidari, Mohsen Irani Rahaghi, Seyed Ahmadreza Afsari Kashani, Mohammad Arefi,Analytical vibration of middle rotor of coaxial magnetic gear with complicated structure due to holes and screws,Mechanics Based Design of Structures and Machines,2022.](#)
5. [Ali Ghorbanpour Arani, Majid Pakize, Mohsen Irani Rahaghi, Zahra Khoddami Maraghi, Shahriar Niknejad,Vibrational Study on Multilayer Sandwich Plates: Porous FGM Core, Nanocomposite and Piezoelectric Face Sheets,Journal of Solid Mechanics,2022.](#)
6. [Yaser Heidari, Mohammad Arefi, Mohsen Irani Rahaghi,Nonlocal vibration characteristics of a](#)

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8. Yaser Heidari, Mohsen Irani Rahaghi, Mohammad Arefi, Buckling analysis of FG cylindrical nano shell integrated with CNTRC patches, *Waves in Random and Complex Media*, 2022.
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10. Javad Kargar, Ali Ghorbanpour Arani, Ehsan Arshid, Mohsen Irani Rahaghi, Vibration analysis of spherical sandwich panels with MR fluids core and magneto-electro-elastic face sheets resting on orthotropic viscoelastic foundation, *Struct Eng Mech*, 2021.
11. Yaser Heidari, Mohammad Arefi, Mohsen Irani, & Rahaghi, Free vibration analysis of cylindrical micro/nano-shell reinforced with CNTRC patches, *International Journal of Applied Mechanics*, 2021.
12. Yaser Heidari, Mohammad Arefi, Mohsen Irani Rahaghi, Effect of distributed piezoelectric segments on the buckling load of FG cylindrical micro/nano shell, *The European Physical Journal Plus*, 2021.
13. R Rostami, M Irani Rahaghi, M Mohammadimehr, Vibration control of the rotating sandwich cylindrical shell considering functionally graded core and functionally graded magneto-electro-elastic layers by using differential quadrature method, *Journal of Sandwich Structures and Materials*, 2019.
14. Yaser Heidari, Mohsen Irani Rahaghi, Mohammad Arefi, Free vibration analysis of a porous rotor integrated with regular patterns of circumferentially distributed FGP patches on inner and outer surface, *Journal of Intelligent Material Systems and Structures*, 2020.
15. Mahnoush Alinaghian, Saeid Golabi, Mohsen Irani Rahaghi. Experimental and numerical investigation of laser shock peening effects on residual stresses and fatigue life in hollow plate. *Iranian Journal of Manufacturing Engineering*. ۲۰۲۱.
16. Hamed Ghafarzadeh Zare, Ali Maleki, Mohsen Irani Rahaghi, majid Lashgari. Vibration modelling the thresher unit of john deere (۹۵۵) combine harvester using operational modal analysis. *Agricultural Engineering*. ۲۰۲۰.
17. M. Jafari Niasar, A. A. Jafari, M. Irani Rahaghi. Free vibration of rotating FGM conical shell with smart patches. *Journal of Solid and Fluid Mechanics*. ۲۰۲۰.
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21. R. KARROUBI, M. IRANI, & RAHAGHI, Rotating sandwich cylindrical shells with an FGM core and two FGPM layers: free vibration analysis, *Applied Mathematics and Mechanics*, 2019.
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24. R. Karroubi and M. Irani Rahaghi. Free Vibration Analysis of Sandwich Cylindrical Shells with Functionally Graded Core and Sensor and Actuator Piezoelectric Layers. *Tabriz Journal of Mechanical Engineering*. ۲۰۱۸.

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32. Mohammad Hosein Kardan, Mohsen Irani Rahaghi. Robot-Borne PLC-Based Control System Used for Lower Limbs Rehabilitation. *Modares Mechanical Engineering*, ۲۰۱۵.
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