

Ahmad Paknejad

Office Address:

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Research Interests

- **Analysis Type:**
 - Mechatronics
 - Active vibration damping
 - Passive vibration damping
 - Control Optimization
 - Nonlinear Vibration Control
 - Intelligent Materials

Research and Laboratory Experiences

- | | |
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| • Université libre de Bruxelles, (ULB)
BEAMS Department (Bio, Electro And Mechanical Systems), (BEAMS)
<i>Precision Mechatronics Laboratory, (PML)</i>
<i>Researcher, PhD Student</i> <ul style="list-style-type: none">- Active and Passive damping of nonlinear structures | Bruxelles - BE
Liege - BE
2018-now |
| • Tarbiat Modares University, (TMU)
Mechanical Engineering Department, (Mech)
<i>COMPOSITE Research Lab</i>
<i>Research Assistant, MSc Student</i> <ul style="list-style-type: none">- Vibration analysis of piezoelectric patch energy harvester attached on multilayer composite beams and plates | Tehran - IR
2014- 2017 |

Publications

- **Journal Papers:**
 - [Ahmad Paknejad](#), Gholamhossein Rahimi, Amin Farrokhbadi, Mehdi Khatibi. "Analytical Solution of Piezoelectric Energy Harvester Patch for Various Thin Multilayer Composite Beams." **Journal of Composite Structures**, 2016 <https://doi.org/10.1016/j.compstruct.2016.06.074>.
 - [Ahmad Paknejad](#), Gholamhossein Rahimi, Hamed Salmani. "Analytical Solution and Numerical Validation of Piezoelectric Energy Harvester Patch

for Various Thin Multilayer Composite Plates." **Journal of Archive of Applied Mechanics, 2018** <https://doi.org/10.1007/s00419-018-1363-0>.

- **Conference Presentations:**

- **Oral Presentations:**

- [A. Paknejad](#), G.H. Rahimi. "Finite Element Modeling of Thin Composite Plate with Embedded Piezoelectric Active Elements", **4th International Conference on Composites: Characterization, Fabrication, and Application (CCFA-4), 2014**, COMPOSIT04_049.
- [A. Paknejad](#), G.H. Rahimi, H. Salmani. "Vibration Analysis of a thin Plate with Piezoelectric Energy Harvester Using Finite Element Method", **The Bi-Annual International Conference on Experimental Solid Mechanics, 2016**, WMECH03_087.

- **Poster Presentations:**

- [A. Paknejad](#), G.H. Rahimi, H. Malekinejad. "Static Analysis of Grid Stiffened Composite Plate by Piezoelectric Actuators", **The Bi-Annual International Conference on Experimental Solid Mechanics, 2016**, WMECH03_088.

Honors

- Ranked First among Aerospace Structural Design graduate students in mechanical engineering department, Tarbiat Modares University, Tehran, Iran.
- Ranked 3th among All Aerospace Engineering graduate students in mechanical engineering department, Tarbiat Modares University, Tehran, Iran.
- Ranked 457th among more than 20000 participants of Mechanical and Aerospace Engineering Graduate Entrance Exam.

Computer Skills

- **Engineering Software:**
MATLAB, ABAQUS, and ANSYS.
- **Other Software and Operating System:**
Microsoft Office, Windows.

Language

- Persian: Native language
- English: Professional working proficiency