

# Hossein Taghipoor, Ph.D

## PERSONAL INFORMATION



**Profile:**  
**Citizenship:** Iranian  
**Current position:** Assistant Professor, Faculty of Mechanical Engineering, Velayat University, Iranshahr  
**Date of Birth:** March 29, 1990  
**Place of Birth:** Damghan, Semnan, Iran

## CONTACT INFORMATION

**Email:** [h.taghipoor@velayat.ac.ir](mailto:h.taghipoor@velayat.ac.ir)

## WORK EXPERIENCE

Jul 2015 - 2016      **Velayat Hospital**      **Damghan , Iran**  
*Head of Damghan Hospital Facilities*

## EDUCATION

- 2014 - 2018
- **PhD.**, Mechanical Engineering, (Solid Mechanics), Semnan University, Semnan, Iran
- Thesis:** **Experimental, numerical, theoretical and Optimization analysis of energy absorption in lattice core sandwich beams under transverse loading**  
*Supervisors: Dr. Nourri Damghani*  
*Averaged Grade: 19.31*
- 2012 - 2014
- **MSc.**, Mechanical Engineering (Solid Mechanics), Islamic azad university semnan branch, Semnan, Iran
- Thesis:** **Experimental study of energy absorption in trapezoidal compound core sandwich panels subjected to low-velocity impact**  
*Supervisors: Dr. Ahmad Ghorabi*  
*Averaged Grade: 17.84*
- 2008 - 2012
- **BSc.**, Mechanical Engineering (Solid Mechanics), Islamic azad university semnan branch, Semnan, Iran
- Thesis:** **Design and construction of oscillating heat pipes**  
*Supervisors: Dr. Hadi Kargar*  
*Averaged Grade: 17.73*
- 2004 - 2007
- **Diploma**, Mathematics and Physics, Loghman School, Damghan, Iran  
*Averaged Grade: 18.79*

## OTHER CERTIFICATES

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- |      |   |                         |
|------|---|-------------------------|
| 2019 | <ul style="list-style-type: none"><li>• <b>Principles and project design of photovoltaic systems with software PVsyst</b></li></ul> | Iran energy association |
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## TEACHING EXPERIENCES

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**Main Field:** Solid Mechanics and Impact

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| Mechanical Engineering<br>(Solid Mechanics): | <ul style="list-style-type: none"><li>• <b>Semnan University (2014-Present):</b> Teaching Assistant (TA) for Laboratory of impact, Strength of Materials 3, Mechanic of impact.</li><li>• <b>Damghan University (2017-Present):</b> Composite Materials, Fracture/Fatigue/Creep, Industrial Drawing, Strength of Materials III, Mechanical Engineering Design I/II.</li><li>• <b>Islamic Azad University, Damghan Branch (2014-2015):</b> Industrial Drawing, Professional Foreign Language, Computer Basics and Programing.</li><li>• <b>Technical and Vocational University, Amirabad Damghan (2017-Present):</b> Industrial Drawing, Professional Foreign Language, Computer Basics and Programing, Laboratory of Strength of Materials, Strength of Materials I/II, Mechanical Engineering Design I/II.</li></ul> |
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## HONORS

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| 2014 | <ul style="list-style-type: none"><li>• First placed in MSc. Ranking with Averaged Grade of 17.84, between 23 Graduated Students, Islamic azad university semnan branch, Semnan, Iran</li></ul> |
| 2017 | <ul style="list-style-type: none"><li>• Best teacher in Faculty of Mechanical Engineering, Technical and Vocational University, Damghan, Iran</li></ul>   |
| 2018 | <ul style="list-style-type: none"><li>• First placed in Ph.D. Ranking with Averaged Grade of 19.31, between 3 Graduated Students, Semnan University, Semnan, Iran</li></ul>                     |
| 2018 | <ul style="list-style-type: none"><li>• Membership in the Elite Foundation of the Islamic Republic of Iran</li></ul>  |
| 2019 | <ul style="list-style-type: none"><li>• Best Researcher in Faculty of Mechanical Engineering, Technical and Vocational University, Semnan, Iran</li></ul>                                       |

## Articles Reviewing:

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Journals

- Journal of Structural and Multidisciplinary Optimization
- Mechanics of Advanced Materials and Structures
- Journal of Sandwich Structures and Materials
- Journal of steel and composite structures
- advances in automotive engineering an international journal

Khwarizmi International Award

- The referee of the khwarizmi International Award, 21th Annual International the khwarizmi International Award

## IT SKILLS

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### Coding and Analysis:

MS Word	Advanced
MS Excel	Advanced
Powerpoint	Advanced
MATLAB	Intermediate
Design-Expert	Advanced

### Finite Element Method:

ABAQUS	Advanced
Catia	Intermediate
ANSYS	Intermediate

## LANGUAGES

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- **Persian (Farsi)** Native
- **English** Intermediate

## PUBLICATIONS

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### Articles/Books:

Chapter Books	1 chapters
Articles	19 articles
ISI/ISC Journal Articles	12 articles
Conference	7 articles
English Articles	8 articles
Persian Articles	11 articles

### Journal Articles:

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- **H. Taghipoor** and M. Damghani Nouri, "Axial crushing and transverse bending responses of sandwich structures with lattice core," *J. Sandw. Struct. Mater.*, p. 109963621876132, Feb. 2018. (ISI)
- Arameh Eyvazian, **H. Taghipoor** and, TrongNhan Tran, "Analytical and experimental investigations on axial crushing of aluminum tube with vertically corrugated," *International Journal of Crashworthiness*, doi.org/10.1080/13588265.2021.1892954, Mar. 2021. (ISI)
- **H. Taghipoor** and M. Damghani Nouri, "Experimental and numerical investigation of lattice core sandwich beams under low-velocity bending impact," *J. Sandw. Struct. Mater.*, vol. 21, no. 6, pp. 2154–2177, Sep. 2019. (ISI)
- **H. Taghipoor** and M. D. Noori, "Experimental and numerical study on energy absorption of lattice-core sandwich beam," *Steel Compos. Struct.*, vol. 27, no. 2, pp. 135–147, 2018. (ISI)
- A. Eyvazian, E. Eltai, F. Musharavati, **H. Taghipoor**, T. A. Sebaey, P. Talebizadehsardari "Experimental and Numerical Investigations on Axial Crushing of Square Cross-Sections Tube with Vertical Wave", *Steel Compos. Struct.*, vol. 36, no. 2 (ISI)
- **H. Taghipoor**, A. Eyvazian, F. Musharavati, T. A. Sebaey, and A. Ghiaskar, "Experimental investigation of the three-point bending properties of sandwich beams with polyurethane foam-filled lattice cores," *Structures*, 2020, doi: 10.1016/j.istruc.2020.08.082. (ISI)

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- **H. Taghipoor**, A. Eyvazian, A. Ghiaskar, A. Praveen Kumar, A. Magid Hamouda, and M. Gobbi, “Experimental investigation of the thin-walled energy absorbers with different sections including surface imperfections under low-speed impact test”, *Mater. Today Proc.*, Apr. 2020, doi: 10.1016/j.matpr.2020.03.006. (ISI)
  - **H. Taghipoor**, A. Eyvazian, A. Ghiaskar, A. Praveen Kumar, A. Magid Hamouda, and M. Gobbi, “Experimental and numerical study of lattice-core sandwich panels under low-speed impact,” *Mater. Today Proc.*, pp. 1–6, Mar. 2020, doi: 10.1016/j.matpr.2020.03.001. (ISI)
  - **H. Taghipoor**, K. Malekzade Fard, and A. Bigdeli, “Experimental, numerical and analytical study of energy absorption in high velocity penetration phenomena on composite targets.,” *J. Sci. Technol. Compos.*, vol. 5, no. 1, pp. 11–24, 2018. (ISC)
  - **H. Taghipoor** and K. Malekzade Fard, “Experimental and numerical study of Energy Absorption in foam filled Trapezoidal Compound core sandwich panels subjected to quasi-static” *J. Sci. Technol. Compos.*, vol. 5, no. October, pp. 565–574, 2018. (ISC)
  - **H. Taghipoor** and M. D. Noori, “Topology Optimization Study in Energy Absorption of Lattice-core Sandwich Beams under Three-point Bending Test,” *Modares Mech. Eng.*, vol. 18, no. March, pp. 163–173, 2018. (ISC)
  - **H. Taghipoor** and M. D. Noori, “Experimental investigation of energy absorption in foam filled sandwich beams with expanded metal sheet as core under quasi-static bending,” *Modares Mech. Eng.*, vol. 18, no. 03, pp. 126–134, 2018. (ISC)
  - **H. Taghipoor** and M. Damghani Nouri, “Experimental and Numerical Investigations of Low-Speed Impact on Thin-Walled Beams Under Bending Loads” 26th International Annual Conference of the Iranian Society of Mechanical Engineers, Semnan University, Semnan, Iran, April 2018 (in Persian)
  - **H. Taghipoor** and M. Damghani Nouri, “Meta-heuristic optimization algorithm of the sperm reaching egg (SRE) for Solving Optimization Problems” 26th International Annual Conference of the Iranian Society of Mechanical Engineers, Semnan University, Semnan, Iran, April 2018 (in Persian)
  - **H. Taghipoor** and M. Damghani Nouri, “Experimental and numerical study of lattice-core sandwich panels under low-speed impact” 26th International Annual Conference of the Iranian Society of Mechanical Engineers, Semnan University, Semnan, Iran, April 2018 (in Persian)
  - **H. Taghipoor**, A. Ghiaskar, M. Damghani Nouri, “Experimental investigation of the thin-walled energy absorbers with different sections including surface imperfections under low-speed impact test” 27th Annual International Conference of Iranian Society of Mechanical Engineering, Tarbiat Modares University, Tehran, Iran, April-May, Page 145, 2019 (in Persian)

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- A. Ghiaskar, **H. Taghipoor**, “Simulating the Sedan Car Body Torsion by considering the torsion angles from the front suspension to the rear suspension” 27th Annual International Conference of Iranian Society of Mechanical Engineering, Tarbiat Modares University, Tehran, Iran, April-May, Page 145, 2019 (in Persian)
  - **H. Taghipoor**, A. Ghiaskar, “Investigation of self-vibrations on the ball screw mechanism of the lathe” 27th Annual International Conference of Iranian Society of Mechanical Engineering, Tarbiat Modares University, Tehran, Iran, April-May, Page 145, 2019 (in Persian)
  - **H. Taghipoor**, M. Damghani Nouri, H. Arami, “Experimental investigation of the thin-walled energy absorbers with square sections including elliptical surface imperfections under low-speed impact test”, 28th Annual International Conference of Iranian Society of Mechanical Engineering, Tehran, Iran, April-May, 2020 (in Persian)

#### Research Projects:

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- **H. Taghipoor** and K. Malekzade Fard, “Construction, equipping and commissioning of Impact Mechanics Research Laboratory and all energy absorption and impact tests such as Taylor, Drop-weight and Hopkinson bar test”, Research Project for Semnan University, Semnan, Iran, 2015.
- **H. Taghipoor** and K. Malekzade Fard, “Experimental and numerical study of Energy Absorption in Trapezoidal Compound core sandwich panels subjected to quasi-static loading”, Research Project for the organization of Air Industries affiliated to the Ministry of Defense, Tehran, Iran, 2015.
- **H. Taghipoor** and K. Malekzade Fard, “Experimental and numerical analysis of sandwich panels with lattice core under low-velocity impact loading”, Research Project for the organization of Air Industries affiliated to the Ministry of Defense, Tehran, Iran, 2016.

#### Book:

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- K. Malekzade Fard and **H. Taghipoor**, “Introduction to Fatigue and damage tolerance design” ISBN:978-600-8780-83-0, Almas alborz Publication, 2018.