	Contact information
Name: N	ima Geran Malek
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	Education
2015-09-2	3 - 2017-11-15: M.Sc. in Automotive Engineering (Mechanical - Body and Structure): Iran University of Science & Technology, Tehran, Iran GPA: 3.8
2007-09-2	 3 - 2013-02-18: B.Sc. in Mechanical Engineering: Foulad Institute of Technology, Esfahan, Iran Department of Mechanical Engineering GPA: 3.8 Supervisor: Dr. Ebrahim Shirani (Editor in Chief Journal of Applied Fluid Mechanics, JAFM - Abdus Salam International Centre for Theoretical Physics (ICTP))
	Research Interests
MachStructSmartWeara	eering design Composite materials ine learning ural optimization materials able sensors ive manufacturing
	Publications
1. Mach	shed journal articles ine learning regression approaches for predicting the ultimate buckling load of variable-stiffness osite cylinders

DOI: (https://doi.org/10.1007/s00707-020-02878-2)

2. <u>An open-source framework for the FE modeling and optimal design of fiber-steered variable-stiffness composite cylinders using water strider algorithm</u>

DOI: (https://doi.org/10.1080/15397734.2020.1835489)

3. <u>Highly Stretchable and Sensitive Strain Sensors based on Carbon Nanotubes-Elastomer Nanocomposites:</u>
The Effect of Environmental Factors on Piezoresistivity

DOI: (https://doi.org/10.1039/D0TC00373E)

(Journal of Materials Chemistry C, Q1, IF: 6.641)

4. <u>Electrical properties of stretchable and skin-mountable PDMS/MWCNT hybrid composite films for flexible strain sensors</u>

DOI: (https://doi.org/10.1177/0021998319853034)

(Journal of Composite Materials, IF: 1.755)

5. An open-source computational framework for optimization of laminated composite plates

(Acta Mechanica, Q1, IF: 2.166)

6. Effects of the impactor geometrical shape on the non-linear low-velocity impact response of sandwich plate with CNTRC face sheets.

DOI: (https://doi.org/10.1177/1099636218778998)

(Journal of Sandwich Structures & Materials, Q1, IF: 5.015)

7. Robust design optimization of laminated plates under uncertain bounded buckling loads. Structural and Multidisciplinary Optimization, 1-15.

DOI: (https://doi.org/10.1007/s00158-018-2106-0)

(Structural and Multidisciplinary Optimization, Q1, IF: 3.925)

8. <u>Buckling load of laminated composite plates using three variants of the biogeography-based optimization algorithm.</u>

DOI: (https://doi.org/10.1007/s00707-017-2068-0)

(Acta Mechanica, Q1, IF: 2.166)

9. Comprehensive optimization of friction stir weld parameters of lap joint AA1100 plates using artificial neural networks and modified NSGA-II.

DOI: (https://doi.org/10.1088/2053-1591/aac6f6)

(Materials Research Express, IF: 1.449)

10. Optimum stacking sequence design of composite laminates for maximum buckling load capacity using parameter-less optimization algorithms. Engineering with Computers, 1-20.

DOI: (https://doi.org/10.1007/s00366-018-0634-2)

(Engineering with Computers, IF: 3.551)

Conference papers

11. Evaluation of non-linear Effects in Piezoresistive PDMS/MWCNT Sensing Elements

Mohammad Nankali, Norouz Mohammad Nouri, Nima Geran Malek Kheili

The Biennial International Conference on Experimental Solid Mechanics - X-Mech 2018 (<u>This paper was nominated by X-Mech 2018</u>)

12. Piezoresistive Behavior of PDMS/CNT Nanocomposites Made by Vacuum Filtration Method

Mohammad Nankali, Nima Geran Malek Kheili, Norouz Mohammad Nouri, Mahdi Navidbakhsh 1st Iran Congress On Industrial Applications of Advanced Materials and Manufacturing (<u>This paper was nominated by the Congress</u>)

13. <u>Investigation on The Size of Reinforcement in AZ31/Al2O3 Nanocomposite with Array Distribution</u>
Abolfazl Khalkhali, Behnam Anbarlooie, Nima Geran Malek Kheili, Mohammad Nankali

1st Iran Congress On Industrial Applications of Advanced Materials and Manufacturing

14. Evaluation of The Mechanical Properties of Carbon Nanotube Nanocomposites and The Effect of the Number of Interphase Layers Using the Representative Volume Element (RVE)

Abolfazl Khalkhali, Mohammad Javad Saranjam, Nima Geran Malek Kheili, Hamed Rezvanpour Iran industrial applications of composite structures

Submitted manuscripts

15. Evaluation of Non-linear Effects in PDMS/MWCNT Hybrid Films for Wearable Strain Sensors

	Software
Programming:	Python, MATLAB
Eng. Software:	Powermill, Mastercam, ABAQUS (Advanced), CATIA (Advanced)
Other Software:	Corel Draw, Keyshot, , Adobe Photoshop, Tecplot, Microsoft Office
	Accomplished Courses

- CNC Turning (Certified)
- CNC Milling (Certified)
- Python Scripting in ABAQUS
- **ABAQUS** Training Course
- Fracture Mechanic with FEM simulation (ABAQUS)
- Advanced CATIA Training Course, CATIA III
- Intermediate Corel Draw Training Course

_____ Teaching Experience __

- Strength of Materials
- Advanced Integrated Manufacturing
- Calculus

English Language proficiency	<i>I</i>
TOEFL	Overall: 93
GRE Score	
Overall	304
Verbal Reasoning	142
Quantitative Reasoning	162
Analytical Writing	3.0
References	

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Best regards,

Nima Geran Malek Kheili