

Dr. Hussain Al Tammar

Assistant Professor

Personal Data:

Nationality | Saudi
Date of Hire | 2021
Date Rank Obtained | 2021
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Education:

Academic Degree	Major	Specialty	Place of Issue	Address	Date
Doctorate (PhD)	Mechanical Engineering	Applied Mechanics	University of Wisconsin – Milwaukee	Wisconsin, USA	May 2019
Masters (M.Sc.)	Mechanical Engineering	Applied Mechanics	University of Wisconsin – Milwaukee	Wisconsin, USA	May 2014
Bachelor (B.Sc.)	Mechanical Engineering	-----	Western Kentucky University / University of Kentucky	Kentucky, USA	May 2012

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions):

Doctoral	Structural Health Monitoring of Laminate Structures Using Shear-Mode Piezoelectric Sensors
Master	Damage Detection of Mixed-mode Cracks in Large Truss Structures Using Wavelet Transform

Experiences:

Title of Job	Address of Work	Country	Date	
Assistant Professor	King Faisal University	Al-Ahsa, Saudi Arabia	From	Aug. 2021
			To	Present
Assistant Professor	University of Jamestown	North Dakota, USA	From	Aug. 2019
			To	May 2021
Lecturer	University of Wisconsin – Milwaukee	Wisconsin, USA	From	Jan. 2016
			To	May 2019

Research Interests:

- Structural Health Monitoring:** transducers and sensor networks, embedded systems, composites
- Smart Material Systems and Structures:** piezoelectric materials, multi-physics simulations, energy harvesting
- Signal Processing:** stochastic and probabilistic analysis, engineering optimization

Publications:

#	Name of author(s)	Title of Publication	Publisher and Date of Publication	Link of Publication
1	H. Altammar, S. Kaul	Adaptive Probabilistic Optimization Approach for Vibration-Based Structural Health Monitoring	MDPI, 2021	Click Here
2	H. Altammar, N. Salowitz	Ultrasonic Structural Health Monitoring Approach to Predict Delamination in a Laminated Beam Using d15 Piezoelectric Sensors	ASME, 2021	Click Here
3	P. Carrison, H. Altammar, N. Salowitz	Selective Actuation and Sensing of Antisymmetric Ultrasonic Waves Using Shear-deforming Piezoelectric Transducers	SAGE, 2020	Click Here
4	H. Altammar, A. Dhingra, and N. Salowitz,	Damage Detection Using d15 Piezoelectric Sensors in a Laminate Beam Undergoing Three-point Bending	MDPI, 2019	Click Here
5	H. Altammar, A. Dhingra, and N. Salowitz	Initial Study of Internally Embedded Shear Mode Piezoelectric Transducers for Detection of Joint Defects in Laminate Structures	SAGE, 2019	Click Here
6	H. Altammar, A. Dhingra, and N. Salowitz	Ultrasonic Sensing and Actuation in Laminate Structures Using Bondline-embedded d35 Piezoelectric Sensors	MDPI, 2018	Click Here

Language Proficiency:

1. Arabic
2. English