



Name: Dr. Reza Soleimanpour

Rank: Assistant Professor - Civil Engineering

Personal Information

Nationality:	Australian
AU Joining Date:	09 Sep 2018
E-Mail Address:	r.soleimanpour@au.edu.kw

Professional Information

Education:	The University of Adelaide, Adelaide, Australia - Major: Ph.D. in Structural Health Monitoring - Research Supervisor: Prof. Alex Ng - Research Topic: Damage detection and localisation in isotropic and anisotropic materials using linear and nonlinear guided waves K.N.Toosi University - Major: Master's Degree in Structural Engineering - Research supervisor: Prof. M. Yahyai, Prof. M. Barghi - Research Topic: Retrofitting of the structures by ADAS dampers (course work & research) Buali Sina University Major: Civil Engineering – Bachelor of science in civil engineering recognised by Engineers Australia as a professional civil engineer
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Specialization:	- Structural Engineering - Structural Health Monitoring - Guided Waves Non-destructive Evaluation - Structural Dynamics - Vibration Measurement - Earthquake engineering - Seismic evaluation and retrofitting of structures against earthquake load - Civil Construction
Current Academic Position:	Assistant Professor - Civil Engineering
Current Professional Positions:	N/A
Previous Administrative Position Held:	Project Engineer in Construction Company (Please see the "Industrial and Technical Experience")
Previous Academic Positions Held:	- Assistant Professor/Research fellow at lightweight design institute of Johannes Kepler University, Linz, Austria - Research assistant at the University of Adelaide, Australia - Part time lecturer at Azad University, Iran
Fellowships And Honors:	- Professional Engineer (P.E) Nevada State - Registered Professional Engineer (RPEQ) in Queensland and Victoria - Registered Professional Engineer in Australia (CPEng) - National Engineering Register (NER) of Australia - APEC Engineer Register - IntPE Engineer Register - Registered Professional Engineer in Tehran, Iran - The University of Adelaide's Dean's Commendation for Doctoral Thesis Excellence - Full government-funded scholarship (APA) award for a Ph.D. degree at the University of Adelaide - Top 100 student rank in Master's degree entrance exam

Teaching Experience:	- Assistant Professor: Australian University (AU), College of Engineering, unit of Civil Engineering (2018 – Present) - Assistant Professor: Johannes Keppler University, Linz (JKU), lightweight design institute (2016-2017) - Part-time lecturer: Azad University, Iran (2008 – 2011) - Teaching Assistant: The University of Adelaide (2013-2016)
Industrial And Technical Experience:	- Structural Engineer at Atisaz, design and seismic retrofitting of several structures 2002-2004 - Project Engineer at Ati Saz, Construction of Vardavard City, 2000-2004. - Project Engineer at Mushrif Trading and Contracting Company, Kuwait, Construction of Zakat House in Al-Zahra Area, Kuwait 2003-2004 - Project Engineer at Mushrif Trading and Contracting Company, Kuwait, Construction of Marine Science Centre in Fintas, Kuwait 2004-2007 - Senior Project Engineer at United Gulf Construction Company Kuwait, Construction of Girls Campus College in Ardhyia, Kuwait 2008-2010 - Senior Project Engineer at United Gulf Construction Company Kuwait, Construction of Sabah Al Ahmed City Project in Vafrah 2010-2012
Research Interest:	- Structural Health Monitoring - Guided Waves Non-destructive Evaluation - System Identification - Structural Dynamics - Vibration Measurement - Composite Materials - Seismic evaluation and retrofitting - Metallic Dampers design
Research Grants:	- Kuwait Foundation for the Advancement of the Sciences (KFAS) fund 2021, PR19-15EC-09, Application of Lamb wave for structural health monitoring of Kuwait infrastructures (9500 KD) - Kuwait Foundation for the Advancement of the Sciences (KFAS) fund 2020, CR20-13EV-01, New structural health monitoring of industrial

	pipelines under extremely hot conditions (8500 KD) – AU internal funding (2018). Application of Lamb wave of damage detection and damage localization of pipelines (1500KD)
Research and Publications including Journal and Books:	▪ Reza Soleimanpour (2025). Enhancing Non-Destructive Detection and Localization of Interfacial Debonding in FRP Concrete Composite Beams. Mechanics of Advanced Materials and Structures. https://doi.org/10.1080/15376494.2025.2555581 ▪ Reza Soleimanpour (2025). Nondestructive Testing of FRP-Bonded Structures Using a Nonlinear Baseline-Free Approach. Measurement Science and Technology. https://doi.org/10.1088/1361-6501/adf501 ▪ Yassin, M.H., Farhat, M.H., Reza Soleimanpour. et al. Fiber Bragg grating (FBG)-based sensors: a review of technology and recent applications in structural health monitoring (SHM) of civil engineering structures. Discov Civ Eng 1, 151 (2024). https://doi.org/10.1007/s44290-024-00141-4 ▪ Reza Soleimanpour, Mohamad Hany Yassin, Arash Mehdizadeh, Dimitrios Chronopoulos, Locating cracks in isotropic plates using nonlinear guided waves. Appl Acoust 2023;211:109522. https://doi.org/https://doi.org/10.1016/j.apacoust.2023.109522 ▪ Reza Soleimanpour, Ching Tai Ng, “Mode conversion and scattering analysis of guided waves at delaminations in laminated composite beams”, Journal of Structural Monitoring and Maintenance, Volume 2, Issue3, 2015, pp.213-236. http://dx.doi.org/10.12989/smm.2015.2.3.213 ▪ Reza Soleimanpour, Ching Tai Ng, “Scattering of the fundamental anti-symmetric Lamb wave at through-thickness notches in isotropic plates”, Journal of Civil Structural Health Monitoring, Vol.6, PP1-13, 2016. https://doi.org/10.1007/s13349-016-0166-7 ▪ Reza Soleimanpour, Ching Tai Ng, Chun Wang, “Higher harmonic generation of guided waves at delaminations in laminated composite beams”, International Journal of Structural Health Monitoring https://doi.org/10.1177/1475921716673021 ▪ Reza Soleimanpour, Ching Tai Ng, “Locating delaminations in laminated composite beams using nonlinear guided waves Engineering Structures”, 2017. https://doi.org/10.1016/j.engstruct.2016.11.010 ▪ Reza Soleimanpour, Ng C-T. “Scattering analysis of nonlinear Lamb

	waves at delaminations in composite laminates". Journal of Vibration and Control. 2022. https://doi.org/10.1177%2F1077546321990145 ▪ Reza Soleimanpour & Sayed Mohamad Soleimani, "Scattering analysis of linear and nonlinear symmetric Lamb wave at cracks in plates", Nondestructive Testing and Evaluation, 2022, https://doi.org/10.1080/10589759.2022.2030330 ▪ Reza Soleimanpour & Sayed Mohamad Soleimani, "A Baseline Free Method for Locating Imperfect Bolted Joints", Journal of Structural Monitoring and Maintenance. 2022. https://doi.org/10.12989/smm.2022.9.3.237 ▪ Reza Soleimanpour, Mahmmod Yahyaei, and Mostafa Barghi." Retrofitting of existing steel buildings using adas dampers. Modares technical and engineering", 2006, (25), 89-98. https://www.sid.ir/en/journal/ViewPaper.aspx?id=91191
Paper Presentations at Professional Conferences:	• Reza Soleimanpour, Yassin, M.H., Mohammad, N.K., Bo Arki, M.K., Sweid, M.N. (2025). Detecting Debonding in FRP Retrofitted Concrete Beams Using Nonlinear Ultrasonic Waves. In: Strauss, E. (eds) Proceedings of the 8th International Conference on Civil Engineering. ICCE 2024. Lecture Notes in Civil Engineering, vol 539. Springer, Singapore. https://doi.org/10.1007/978-981-97-5910-1_9 • Reza Soleimanpour, Mohamad Hany Yassin. "Propagation of Guided Waves in Crumb Rubber Concrete Beams". 12th International Conference on Structural Health Monitoring of Intelligent Infrastructure (SHMII-12) Hangzhou, China – October 19-22, 2023 Paper ID# TS-SHM-P056. • Reza Soleimanpour, Sayed Mohamad Soleimani. "Detecting Cracks in Isotropic Plates Using Contact Acoustic Nonlinearity". Proceedings of the 7th International Conference on Civil Structural and Transportation Engineering (ICCSTE'22) Niagara Falls, Canada – June 05-07, 2022 Paper No. 158. https://avestia.com/ICCSTE2022_Proceedings/files/paper/ICCSTE_158.pdf • Reza Soleimanpour, Sayed Mohamad Soleimani, Naser Khaled Mohammad, Damage detection and localization in loose bolted joints, Procedia Structural Integrity, Volume 37, 2022, Pages 956-

	963, ISSN 2452-3216. https://doi.org/10.1016/j.prostr.2022.02.031. • Reza Soleimanpour, Ching Tai Ng, Abbas Amini A., Sayed Mohamad Soleimani. (2021) Application of Nonlinear Guided Waves for Detecting Loose Flanged Bolted Joints in Pipelines. In: Rizzo P., Milazzo A. (eds) European Workshop on Structural Health Monitoring. EWSHM, 2020. Lecture Notes in Civil Engineering, vol 127. Springer, Cham. https://doi.org/10.1007/978-3-030-64594-6_14 • Reza Soleimanpour, Ching Tai, “Numerical study of nonlinear guided waves in laminated composite beams with delaminations”, 8th Australasian Congress on Applied Mechanics: ACAM 8, 1, 1, 2014, 379-388. https://search.informit.org/doi/10.3316/informit.193954728242335 • Reza Soleimanpour, Mahmoud Yahyai, “Retrofitting of existing steel buildings using ADAS dampers”, international conference on urban earthquake engineering, 2009.
College Service including committee Membership:	- Member of the technical committee for the 17th Asia-Pacific Conference on Fracture and Strength - Member of the technical committee for the 13th Conference on Structural Integrity and Failure - Member of the technical committee for the 10th Australasian Congress on Applied Mechanics - Editor at journal of Frontiers in Built Environment - 2021-2022 AU Graduation Project Exhibition Coordinator
National Service:	NA
College Committees:	- Chair of Students Complain & Appeal Committee - Member of AU Research & Faculty Development Committee - Member of V&M Committee - Member of Lab & Workshop Committee - Member of Auditing & QM Committee - Member of the Departmental Disciplinary Committee