

Dr. Imil Hamda Imran

Assistant Professor



Personal Data:

Nationality | Indonesia
Date of Hire | February 2025
Date Rank Obtained | February 2025
Department | Electrical Engineering
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Education:

Academic Degree	Major	specialty	Place of Issue	Address	Date
Doctorate (PhD)	Electrical Engineering	Control Systems	The University of Newcastle	Australia	February 2020
Masters (M.Sc.)	Systems and Control Engineering	Control Systems	King Fahd University of Petroleum and Minerals	Saudi Arabia	May 2015
Bachelor (B.Sc.)	Electrical Engineering	Electronics and Telecommunication	Universitas Andalas	Indonesia	January 2011

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

PhD	Distributed adaptive consensus for multi-agent systems subject to uncertainties
Master	Cooperative control of heterogeneous systems based on immersion and invariance adaptive control

Experiences:

Title of Job	Address of Work	Country	Date	
Postdoctoral Fellow	KFUPM, Dhahran	Saudi Arabia	From	September 2022
			To	August 2024
Postdoctoral Research Associate	Lancaster university, Bailrigg	United Kingdom	From	April 2020
			To	February 2022
Supervisor	LG Electronics, Cibitung	Indonesia	From	September 2011
			To	May 2012

Research Interests:

- Control Systems: Nonlinear control, multi-agent systems, networked control systems, adaptive control, robust control, machine learning-based control, and optimization.
- Robotics: mobile robots, robotic manipulators, multicopters, and other autonomous systems.

Recent Publications:

No	Name of author(s)	Title of Publication	Publisher and Date of Publication	Link of Publication
1	Imran, I.H., Kurtulus, D.F., Kouser, T., Memon, A.M., Alhems, L.M. and Goli, S.	Finite Time Sliding Mode Control for Chattering Reduction in Unmanned Aerial Vehicles with Dynamic Payloads	IEEE Access, 2025	https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=11123172
2	Kouser, T., Kurtulus, D.F., Goli, S., Aliyu, A., Imran, I.H., Alhems, L.M. and Memon, A.	Machine Learning Approach to Aerodynamic Analysis of NACA0005 Airfoil: ANN and CFD Integration	IEEE Access, 2025	https://ieeexplore.ieee.org/abstract/document/11095683/
3	Goli, S., Kurtulus, D.F., Waqar, M., Imran, I.H., Alhems, L.M., Kouser, T. and Memon, A.M.	Artificial neural network for the evaluation of electric propulsion system in unmanned aerial vehicles	Neural Computing and Applications, 2025	https://link.springer.com/article/10.1007/s00521-025-11043-6
4	Ahmed, G., Eltayeb, A., Alyazidi, N.M., Imran, I.H., Sheltami, T. and El-Ferik, S.	Improved particle swarm optimization for fractional order PID control design in robotic manipulator system: A performance analysis	Results in Engineering, 2024	https://www.sciencedirect.com/science/article/pii/S2590123024013446
5	Eltayeb, A., Ahmed, G., Imran, I.H., Alyazidi, N.M. and Abubaker, A.	Comparative analysis: Fractional PID vs. PID controllers for robotic arm using genetic algorithm optimization	Automation, 2024	https://www.mdpi.com/2673-4052/5/3/14
6	Kouser, T., Kurtulus, D.F., Aliyu, A., Goli, S., Alhems, L.M., Imran, I.H. and Memon, A.	Unsteady aerodynamics over NACA0005 airfoil for ultra-low Reynolds numbers	IEEE Access, 2024	https://ieeexplore.ieee.org/document/10555216
7	Imran, I.H., Alyazidi, N.M., Eltayeb, A. and Ahmed, G.	Robust adaptive fault-tolerant control of quadrotor unmanned aerial vehicles	Mathematics, 2024	https://www.mdpi.com/2227-7390/12/11/1767
8	Imran, I.H., Kurtulus, D.F., Memon, A.M., Goli, S., Kouser, T. and Alhems, L.M.	Distributed robust formation control of heterogeneous multi-UAVs with disturbance rejection	IEEE Access, 2024	https://ieeexplore.ieee.org/document/10504269/
9	Imran, I.H., Wood, K. and Montazeri, A.	Adaptive control of unmanned aerial vehicles with varying payload and full parametric uncertainties	Electronics, 2024	https://www.mdpi.com/2079-9292/13/2/347
10	Goli, S., Roy, A., Roy, S. and Imran, I.H.	Evolution of Vortex Structures Generated by a Rigid Flapping Wing with a Winglet in Quiescent Water	Proceedings of Engineering Technology Innovation, 2024	https://ojs.imeti.org/index.php/PETI/article/view/12838

Language Proficiency:

1. Bahasa Indonesia
2. English