Dr. Mohammad Dikko Aliyu

Professor

Personal Data:

Nationality | CANADIAN
Date of Hire | Sept. 2012
Date Rank Obtained | 2022
Department | Electrical Engineering
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Education:

Academic Degree	Major	specialty	Place of Issue	Address	Date
Doctorate (PhD)	EE	Systems & Control	Louisiana State University, USA	Baton Rouge, LA, USA	2002
Masters (M.Sc.)	EE	Systems & Control	Louisiana State University, USA	Baton Rouge, LA, USA	2001
Bachelor (B.Sc.)	EE	General	Ahmad Bello University, Nigeria	Zaria, Kaduna, Nigeria	1988

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

PhD	A Factorization Approach for Solving the Hamilton-Jacobi Bellman Equation in Nonlinear Optimal Control
Master	Efficient Algorithms for Collision Detection and Path Planning for Robotics Application

Experiences:

Title of Job	Address of Work	Country	Date	
Asst. Prof.	Hail University	KSA	From	2003
			To	2005
Asst. Prof.	Hafr-Al-Batin University	KSA	From	2005
			To	2006
Asst. Prof.	King Faisal University	KSA	From	2012
			To	2015

Research Interests:

1. Nonlinear and Optimal Control
2. Robust Control

3. Signal Processing
4. Robotics
5. Mathematical Physics

Publications:

#	Name of author(s)	Title of Publication	Publisher and Date of Publication	Link of Publication
1	M. D. S. Aliyu	Approximate Iterative Solutions of Hamilton-Jacobi Equations for Nonlinear Systems	IFAC J. Systems and Control, Vol. 14, 2020	[Click Here]
2	M. D. S. Aliyu	An Improved Iterative Computational Approach to the Solution of the Hamilton-Jacobi Equation in Optimal Control,of Affine Nonlinear Systems with Application	Int. J. of Systems Science, vol. 51, No. 14, pp. 2625-2634, 2020	[Click Here]
3	M. D. S. Aliyu	A New Hamilton-Jacobi Differential Game Framework for Nonlinear Estimation and Output Feedback''	Circuits, Systems and Signal Procc., vol. 39, pp. 1831-1852, 2020	[Click Here]
4	M. D. S. Aliyu	A Hamiltonian Pertubation Approach to Construction of Geometric Integrators for Optimal Control Problems	International Journal of Applied and Computational Mathematics, Springer Verlag, vol.51, No. 5, 2019	[Click here]

Language Proficiency:

1. English
2. Arabic
3. French