

Publication Year	Research Title	KFU Author	Journal Name
2019	Multi-Backup Beams for Instantaneous Link Recovery in mmWave Communications	Adel Aldalbahi	MDPI Electronics
	Link Recovery Scheme for Multi-Point mmWave Communications	Adel Aldalbahi	MDPI Electronics
	Beam-Bundle Codebook for Highly Directional Access in mmWave Cellular Networks	Adel Aldalbahi	IEEE Communications letters
	Numerical investigation of long-haul coherent optical Generalized Frequency Division Multiplexing	Adel Aldalbahi	IEEE Photonics Journal
	Design of XOR Photonic Gate using Highly Nonlinear	Adel Aldalbahi	MDPI Electronics
	Solar powered smart irrigation system based on low cost wireless network: A senior design project experience	Adel Aldalbahi	International Journal of Electrical Engineering Education
	DC-Link Voltage Control of a Grid-Connected Solar Photovoltaic System for Fault Ride-Through Capability Enhancement	Adel Aldalbahi	applied sciences
	Frequency Support of Smart Grid Using Fuzzy Logic-Based Controller for Wind Energy Systems	Abdullah Bubbshait	Energies
	A COMPREHENSIVE CONSTRUCTION OF HYDROGEN-HYDROGEN-OXYGEN (HHO) CELL AS RENEWABLE ENERGY STORAGE	Mashhoor Al Tarayrah	Journal of Research in engineering and applied Sciences
	FPGA SYNTHESIS AND VALIDATION OF PARALLEL PREFIX ADDERS	Hesham Enshasy	Journal of Acta Electronica Malaysia
	A Comprehensive Design of Unmanned Ground Search and Rescue Robot	Hesham Enshasy	Journal of Information and Computing Science
	A COMPREHENSIVE CONSTRUCTION OF HYDROGEN-HYDROGEN-OXYGEN (HHO) CELL AS RENEWABLE ENERGY STORAGE	Hesham Enshasy	Journal of Research in Engineering and Applied Sciences (JREAS)
	Model In the Loop Simulation of Flexible Joint Manipulator under Uncertainties	Slim Chtourou	International Journal of Computer Science and Network Security
	Co-simulation Improvement for Uncertain Flexible Robot Arm	Slim Chtourou	Journal of Electrical Engineering and Technology
	EMF Analysis for a 380kV Transmission OHL in the Vicinity of Buried Pipelines,	M. H. Shwehdi	IEEE Access
	DC-Link voltage control of grid-connected solar photovoltaic system for Fault-Ride through capability enhancement	M. H. Shwehdi	Applied Sciences
	Investigation of Electrical load disturbances influences on steel factory production lines	M. H. Shwehdi	International journal of education and research
A New Hamilton-Jacobi Differential Game Framework for Nonlinear Estimation and Output Feedback	M. D. S. Aliyu	Circuits Systems and Signal Procc., Springer Verlag	
A Hamiltonian Perturbation Approach to Construction of Geometric Integrators for Optimal Control Problems	M. D. S. Aliyu	Int. J. of Applied and Computational Maths, Springer	
2018	Optimal Power Reserve of a Wind Turbine System Participating in Primary Frequency Control	Abdullah Bubbshait	Applied Sciences
	Using IOIOAI in introductory courses to embedded systems for engineering students: a case study	Slim Chtourou	The International Journal of Electrical Engineering & Education
	Optimal capacitor placement on West–East inter-tie in Saudi Arabia using genetic algorithm	M. H. Shwehdi	Computers & Electrical Engineering
	An Iterative Approach for Solving the Hamilton-Jacobi-Bellman-Isaacs Equations in Nonlinear Optimal Control	M. D. S. Aliyu	Control Theory and Technology, Springer Verlag
	A Local Iterative Approach for Solving the Hamilton-Jacobi-Bellman-Isaacs Equations in Stochastic Optimal Control of Affine Nonlinear Systems,”	M. D. S. Aliyu	Optimal Control Applications and Methods, Wiley

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2017	Communication power analysis of applying MQV Key agreement scheme for wireless sensor network	Mashhoor Al Tarayrah	2017 IEEE International Conference on Intelligent Techniques in Control, Optimization and Signal Processing (INCOS)
	Microwave NDT for In-Situ Monitoring of Fresh/Saline Water Fraction in Natural Gas Flow	Hesham Enshasy	International Journal of Electronics, Volume
	An Effective Way to Program Microcontrollers For High speed Control Operations	Hesham Enshasy	IEEE International Conference on "Intelligent Techniques in Contr.,
	Estimating Energy Consumption of Diffie Hellman Encrypted Key Exchange (DH-EKE) for Wireless Sensor Network	Hesham Enshasy	IEEE International Conference on "Intelligent Techniques in Contr.,
	A Successive Relaxation Approach for Solving the Coupled Hamilton-Jacobi-Bellman-Isaacs Equations in Differential Game of Affine Nonlinear Systems	M. D. S. Aliyu	Int. J. of Applied and Computational Maths, Springer
	An Iterative Computational Scheme for Solving the Coupled Hamilton-Jacobi-Isaacs Equations in Nonlinear Optimal Control	M. D. S. Aliyu	Decisions in Economics and Finance, Springer Verlag
	An Iterative Relaxation Method for Solving the Hamilton-Jacobi-Bellmann-Isaacs Equations in Nonlinear Optimal Control	M. D. S. Aliyu	IEEE/CAA Automatica Sinica
	State Feedback W1, infinity Control for Nonlinear Systems and Related Minimax Designs	M. D. S. Aliyu and U. F. Sulaiman	NOVA Academic Publishers
2016	A Modified Secant Iterative Method for Solving the Hamilton-Jacobi-Bellman-Isaacs Equations in Nonlinear Optimal Control	M. D. S. Aliyu	IET Control Theory
2015	Improve the light power of InP based 100nm tunable AMQW lasers using forced electrical confinement	Hesham Enshasy	Proc. of SPIE
	Energy savings approach of buildings in Hot-Arid region, Saudi Arabia	M. H. Shwehdi	Journal of Engg. Research
2014	A tiny RSA cryptosystem based on Arduino microcontroller useful for small scale networks	Mashhoor Al Tarayrah	Procedia Computer Science
	Adaptive Channel Equalization for FBMC Based on Variable Length Step Size and Mean-Squared Error	Mashhoor Al Tarayrah	International Journal of Digital Information and Wireless Communications (IJDWC)
	The effect of InP based wide-tunable AMQW laser length on power profile	Hesham Enshasy	Proc. of SPIE
	'DG Placements Impact on the Reliability of Typical Industrial Distribution System in Saudi Arabia'	M. H. Shwehdi	
	Proposed Smart DC Nano-Grid for Green Buildings—A Reflective"	M. H. Shwehdi	
2013	LMS-based equalization in filter bank multicarrier wireless communication systems	Mashhoor Al Tarayrah	The International Conference on Digital Information Processing, E-Business and Cloud Computing (DIPECC2013)
	Spectroscopic Sensing for In-Situ Monitoring of Water Fraction in Natural Gas Flow	Hesham Enshasy	SPE
	Computation of Lightning Impulse Back flashover Outages Rates on High Voltage Transmission Lines"	M. H. Shwehdi	the journal Power system & Control,
2012	Effect of doping profile on the output power of broadly tuneable InGaAsP/InP asymmetric multiple quantum well lasers: finite element method simulations and experimental results	Hesham Enshasy	IET Optoelectron
	Investigating University Personal Computers (PC) Produced Harmonics Effect on line Currents	M. H. Shwehdi	