

Publication Year	Research Title	KFU Authors	Journal Name
2025	Prescribed Performance-Based Distributed Predefined Time Control for DC Microgrid Clusters	Mohammad Ali	IEEE Transactions on Circuits and Systems I: Regular Papers
	A Reduced Switch Stress Common-Ground Boosting Multilevel Inverter for Renewable Energy Applications	Mohammad Ali	e-Prime
	Power-Efficient UAV Positioning and Resource Allocation in UAV-Assisted Wireless Networks for Video Streaming with Fairness Consideration	Ayaz Ahmad, Mohammed Hassan	Drones
	Efficient resource allocation and UAV deployment in STAR-RIS and UAV-relay assisted public safety networks for video transmission	Ayaz Ahmad	IEEE OJ-COMS
	ON/OFF Switchable Smart Poly(N-isopropylacrylamide) Based Hybrid Nanocatalyst for the Response Surface Methodology Based Catalytic Reduction of 2-Nitroaniline	SHIMA SADAF	ChemistrySelect
	Multifunctional ZrO ₂ /NiO/RGO Ternary Nanocomposites for Degradation of Organic Pollutants, H ₂ Production and Antioxidant Property	SHIMA SADAF	Journal of Inorganic and Organometallic Polymers and Materials
	Improved Ni ₃ V ₂ O ₈ Supercapacitive Performance via Urea-Driven Morphological Alteration	SHIMA SADAF	Ceramics International
	Classifying electroencephalogram signals using an innovative and effective machine learning method based on chaotic elephant herding optimum	Nayef Alqahtani	Expert Systems 42 (1), e13383
	Towards A Standard Benchmarking Framework for Domain Adaptation in Intelligent Fault Diagnosis	Mohammed Farag	IEEE Access

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2024	Service Caching in Multi-Tier Fog Radio Access Networks	Adel Aldalbahi	IEEE Access
	Deep learning adversarial attacks and defenses on license plate recognition system	Adel Aldalbahi	Cluster Computing, 1-18
	Experience of Project-Based Learning: Challenges, Assessment, and Analysis	Mohammed Alarfaj, S.Raja Mohamed, Slim Chtourou, Hesham Enshasy, Aly Aboulnaga, Mohamed Hassan	IJEP Vol. 14 No. 3
	PAM: Predictive analytics and modules-based computation offloading framework using greedy heuristics and 5G NR-V2X	Ayaz Ahmad	Transactions on Emerging Telecommunications Technologies 35 (7), e5003
	Wearable sensors based on artificial intelligence models for human activity recognition	Ayaz Ahmad	Frontiers in artificial intelligence 7, 1424190
	Resource-Optimized Vehicular Edge Networks with Fairness Constraints	Ayaz Ahmad	IEEE Access
	IRS and UAV-relay assisted public safety networks for video transmission: optimizing UAVs deployment and resource allocation	Ayaz Ahmad	Telecommunication Systems, 1-17
	RPRA: Reputation-based prioritization and resource allocation leveraging predictive analytics and vehicular fog computing	Ayaz Ahmad	Ad Hoc Networks 155, 103401
	Reinforcement Learning for Energy-Efficient User Association in UAV-Assisted Cellular Networks	Ayaz Ahmad	IEEE Transactions on Aerospace and Electronic Systems
	Efficient UAVs Deployment and Resource Allocation in UAV-Relay Assisted Public Safety Networks for Video Transmission	Ayaz Ahmad	IEEE Access

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2024	Machine learning based prediction models for split tensile strength of fiber reinforced recycled aggregate concrete	Mohammed Alarfaj	Case Studies in Construction Materials 20, e02836
	Wearable sensors based on artificial intelligence models for human activity recognition	Mohammed Alarfaj, Mohammed Farag	Frontiers in artificial intelligence 7, 1424190
	Investigating the Effect of Shade on Rooftops Solar PV Systems in Hot Arid Regions	Mohammed Alarfaj	2024 Third International Conference on Intelligent Techniques in Control ...
	Techno-Economic Benefits of Grid-Connected Photovoltaic Systems	Mohammed Alarfaj	2024 Third International Conference on Intelligent Techniques in Control ...
	Retraction notice to "A prediction model for the performance of solar photovoltaic-thermoelectric systems utilizing various semiconductors via optimal surrogate machine ...	Ahmed Sulaiman Alsafran	Engineering Science and Technology, an International Journal 60, 101860
	Semiconductors for enhanced solar photovoltaic-thermoelectric 4E performance optimization: Multi-objective genetic algorithm and machine learning approach	Ahmed Sulaiman Alsafran	Results in Engineering 23, 102573
	A synergistic approach to optimizing the performance of a concentrating solar segmented variable area leg thermoelectric generator using numerical methods and neural networks	Ahmed Sulaiman Alsafran	Journal of Thermal Analysis and Calorimetry, 1-25
	Challenges and Solutions for AI Explainability in Smart Grid Literature Review	Ahmed Sulaiman Alsafran	Available at SSRN 4807531
	Latest Advancements in Solar Photovoltaic-Thermoelectric Conversion Technologies: Thermal Energy Storage Using Phase Change Materials, Machine Learning, and 4E Analyses	Ahmed Sulaiman Alsafran	International Journal of Energy Research 2024 (1), 1050785
	Deep learning based side channel attack detection for mobile devices security in 5G networks	Nayef Alqahtani	Tsinghua Sci. Technol

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2024	A Comprehensive Security Framework for Asymmetrical IoT Network Environments to Monitor and Classify Cyberattack via Machine Learning	Nayef Alqahtani	Symmetry 16 (9), 1121
	Framework for Optimized Resource Allocation in Multi-User, Multi-Service, Multi-Device Aerial Networks	Nayef Alqahtani	IEEE Access
	Optimizing chest tuberculosis image classification with oversampling and transfer learning	Nayef Alqahtani	IET Image Processing 18 (5), 1109-1118
	A Generic and Extendable Framework for Benchmarking and Assessing the Change Detection Models	Nayef Alqahtani	Preprints
	Enhanced UV photodetector based on WO ₃ /SnO ₂ heterostructure nanowire	SHIMA SADAF	Applied Physics A
	Bio-Genic Synthesis of Nitrogen-Doped Carbon Nanodots (NDCNDs) Using Aristolochia bracteolata for MO Catalytic Activity and Security Ink	SHIMA SADAF	Waste and Biomass Valorization
	Hydrothermal synthesis of rGO-decorated NiMn ₂ O ₄ nanoneedles for high-performance positive electrode in asymmetric supercapacitors	SHIMA SADAF	Diamond and Related Materials 150, 111764
	Bipolar resistive switching behavior of bilayer β -Ga ₂ O ₃ /WO ₃ thin film memristor device	SHIMA SADAF	Journal of Alloys and Compounds 1010, 177032
	Development and analysis of novel Sm doped LaSiO for photocatalytic degradation and electrochemical sensing of heavy metals	SHIMA SADAF	Ceramics International 50 (22), 48628-48639
	Advancements in green-synthesized transition metal/metal-oxide nanoparticles for sustainable wastewater treatment: techniques, applications, and future prospects	SHIMA SADAF	Materials Research Express 11 (10), 102001

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2024	Evaluation of Photocatalytic Efficacy of Biosynthesized Cubic NiFe ₂ O ₄ Nanoparticles	SHIMA SADAF	Nano, 2450144
	Controlled Synthesis and Electrochemical Characterization of Co ₃ V ₂ O ₈ Hexagonal Sheets for Energy Storage Applications	SHIMA SADAF	Colloids and Surfaces A: Physicochemical and Engineering Aspects
	Self-Powered Photodetector with High Sensitivity Based on a CeO ₂ /TiO ₂ Thin Film	SHIMA SADAF	ACS Applied Electronic Materials 6 (5), 3532-3538
	Fluorescent carbon dots for biodiesel production: a comprehensive review (2019-2024)	SHIMA SADAF	Inorganic Chemistry Communications, 112247
	Facile Green Synthesis of α -Bismuth Oxide Nanoparticles: Its Photocatalytic and Electrochemical Sensing of Glucose and Uric Acid in an Acidic Medium	SHIMA SADAF	Journal of Composites Science 8 (2), 1 - 21
	GAD plasma-assisted synthesis of ZnO nanoparticles and their photocatalytic activity	SHIMA SADAF	Materials Research Express-IOPScience 11 (1), 015006-015024
	Development of molybdenum trioxide based modified graphite sheet electrodes for enhancing the electrochemical sensing of dopamine	SHIMA SADAF	Materials Science in Semiconductor processing 173, 108107-108115
	Wearable sensors based on artificial intelligence models for human activity recognition	Slim Chtourou	Frontiers in artificial intelligence 7, 1424190
2023	Techniques to reduce capacitor voltage ripples in multilevel inverters	SHIMA SADAF	IEEE Access
	Attaining an IoMT-based health monitoring and prediction: a hybrid hierarchical deep learning model and metaheuristic algorithm	Nayef Alqahtani	Neural Computing and Applications, 1-18

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2023	6G-Powered Efficient Resource Control through IRS-UE Association	Nayef Alqahtani	Sensors 23 (21), 8713
	Robust Resource Control Based on AP Selection in 6G-Enabled IoT Networks	Nayef Alqahtani	Sensors 23 (15), 6788
	Corrigendum to "A prediction model for the performance of solar photovoltaic-thermoelectric systems utilizing various semiconductors via optimal surrogate machine learning	Ahmed Sulaiman Alsafran	Engineering Science and Technology, an International Journal 47, 101546
	Single-Phase Microgrid Power Quality Enhancement Strategies: A Comprehensive Review	Ahmed Sulaiman Alsafran	Energies 16 (14), 5576
	Machine learning model for transient exergy performance of a phase change material integrated-concentrated solar thermoelectric generator	Ahmed Sulaiman Alsafran	Applied Thermal Engineering 228, 120540
	A prediction model for the performance of solar photovoltaic-thermoelectric systems utilizing various semiconductors via optimal surrogate machine learning methods	Ahmed Sulaiman Alsafran	Engineering Science and Technology, an International Journal 40, 101363
	A feasibility study of implementing ieee 1547 and ieee 2030 standards for microgrid in the kingdom of saudi arabia	Ahmed Sulaiman Alsafran	Energies 16 (4), 1777
	Research Article Multiobjective Optimization and Machine Learning Algorithms for Forecasting the 3E Performance of a Concentrated Photovoltaic-Thermoelectric System	Ahmed Sulaiman Alsafran	
	A Feasibility Study of Implementing IEEE 1547 and IEEE 2030 Standards for Microgrid in the Kingdom of Saudi Arabia.	Ahmed Sulaiman Alsafran	Energies 2023, 16, 1777
	Research Article Smart Optimization of Semiconductors in Photovoltaic-Thermoelectric Systems Using Recurrent Neural Networks	Ahmed Sulaiman Alsafran	

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2023	Smart Optimization of Semiconductors in Photovoltaic-Thermoelectric Systems Using Recurrent Neural Networks	Ahmed Sulaiman Alsafran	
	Research Article Smart Optimization of Semiconductors in Photovoltaic-Thermoelectric Systems Using Recurrent Neural Networks	Ahmed Sulaiman Alsafran	
	Smart Optimization of Semiconductors in Photovoltaic-Thermoelectric Systems Using Recurrent Neural Networks	Ahmed Sulaiman Alsafran	International Journal of Energy Research 2023 (1), 6927245
	Multiobjective Optimization and Machine Learning Algorithms for Forecasting the 3E Performance of a Concentrated Photovoltaic-Thermoelectric System	Ahmed Sulaiman Alsafran	International Journal of Energy Research 2023 (1), 6418897
	Automatic Fiducial Points Detection for Multi-facial Expressions via Invariant Features and Multi-layer Kernel Sliding Perceptron	Mohammed Alarfaj	Journal of Electrical Engineering & Technology 18 (1), 651-661
	Postures anomaly tracking and prediction learning model over crowd data analytics	Mohammed Alarfaj	PeerJ Computer Science 9, e1355
	Automatic anomaly monitoring in public surveillance areas	Mohammed Alarfaj	Intell. Autom. Soft Comput 35 (3), 2655-2671
	Pre-overload migration scheme for nfv-based fog computing	Adel Aldalbahi	Proceedings of the Int'l ACM Symposium on Mobility Management and Wireless ...
	Genetic Algorithm-Based Dynamic Backdoor Attack on Federated Learning-Based Network Traffic Classification	Adel Aldalbahi	2023 Eighth International Conference on Fog and Mobile Edge Computing (FMEC
	Digital compass for multi-user beam access in mmWave cellular networks	Adel Aldalbahi	Digital Communications and Networks 9 (4), 879-886

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2023	A tiny matched filter-based cnn for inter-patient ecg classification and arrhythmia detection at the edge	Mohammed Farag	MPDI Sensors
	Design and Analysis of Convolutional Neural Layers: A Signal Processing Perspective	Mohammed Farag	IEEE Access
2022	Solar powered SMURT (sustainably managed urban real-time) waste bin for intelligent solid waste management system in Saudi Arabia	Mohammed Alarfaj	6th Smart Cities Symposium (SCS 2022) 2022, 74-78
	Sensors-Based Ambient Assistant Living via E-Monitoring Technology	Mohammed Alarfaj	Computers, Materials & Continua 73 (3)
	AAL and internet of medical things for monitoring type-2 diabetic patients	Mohammed Alarfaj	Diagnostics 12 (11), 2739
	Deep human motion detection and multi-features analysis for smart healthcare learning tools	Mohammed Alarfaj	IEEE Access 10, 116527-116539
	Design and Development of a Smart Shopping Cart System	Mohammed Alarfaj	2022 Third International Conference on Intelligent Computing Instrumentation
	Arduino Uno Wi-Fi DeMilitarized Zone-based monitoring of solar photovoltaic systems	Mohammed Alarfaj	Measurement and Control 55 (3-4), 136-145
	Human pose estimation and object interaction for sports behaviour	Mohammed Alarfaj	Computers, Materials & Continua 72 (1), 1-18
	MS-DLD: Multi-sensors based daily locomotion detection via kinematic-static energy and body-specific HMMs	Mohammed Alarfaj	IEEE Access 10, 23964-23979

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2022	Automatic fiducial points detection for multi-facial expressions via invariant features and multi-layer Kernel sliding perceptron	Mohammed Alarfaj	JEET
	AAL and Internet of Medical Things for Monitoring Type-2 Diabetic Patients. Diagnostics 2022, 12, 2739	Mohammed Alarfaj	MDPI stays neutral with regard to jurisdictional claims in published
	Sensors-Based Ambient Assistant Living via E-Monitoring Technology	Mohammed Alarfaj	CMC
	Automatic anomaly monitoring in public surveillance areas	Mohammed Alarfaj	Tech Science Press
	Investigating the Factors Impacting Adversarial Attack and Defense Performances in Federated Learning	Adel Aldalbahi	IEEE Transactions on Engineering Management
	Clustered and Distributed Caching Methods for F-RAN-Based mmWave Communications	Adel Aldalbahi, Mounir Bouzguenda, Hesham Enshasy	
	Caching of popular content at F-RAN for mmWave new radio	Adel Aldalbahi, Mounir Bouzguenda, Hesham Enshasy	International Journal of Communication Systems
	Arduino UNO WI-FI DMZ-Based Monitoring of Solar Photovoltaic Systems	Mounir Bouzguenda, Slim Chtourou, Mohamed Alarfaj	Journal of measurements and control
	Matched Filter Interpretation of CNN Classifiers with Application to HAR	Mohammed Farag	MPDI Sensors
	Aggregated CDMA Crossbar with Hybrid ARQ for NoCs	Mohammed Farag	IEEE Access

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2022	A Self-Contained STFT CNN for ECG Classification and Arrhythmia Detection at the Edge	Mohammed Farag	IEEE Access
	Adversarial Machine Learning in Text Processing: A Literature Survey	Adel Aldalbahi	IEEE Access
2021	Double stage converter with low current stress for low to high voltage conversion in nanogrid	SHIMA SADAF	Energy Reports
	Modeling, Analysis, and Implementation of a Switched-Inductor Based DC/DC Converter with Reduced Switch Current Stress	SHIMA SADAF	IET Power Electronics
	A New High Gain Active Switched Network-Based Boost Converter for DC Microgrid Application	SHIMA SADAF	IEEE Access
	Transformer-Less Boost Converter With Reduced Voltage Stress for High Voltage Step-Up Applications	SHIMA SADAF	IEEE Transactions on Industrial Electronics
	A Survey on Spectrum Management for Unmanned Aerial Vehicles (UAVs)	Adel Aldalbahi	IEEE Access
	Asynchronous Coarse-Grained Load Migration Scheme for IoT Applications in Fog Networks	Adel Aldalbahi	2021 IEEE Global Conference on Artificial Intelligence and Internet of Things (GCAIoT)
	Deep Learning for Primary Sector Prediction in FR2 New Radio Systems	Adel Aldalbahi	IEEE Access
	Applications of AI and ML in IoT	Adel Aldalbahi	Integration of WSNs into Internet of Things, 273-290, book chapter

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2021	BRNN-LSTM for Initial Access in Millimeter Wave Communications	Adel Aldalbahi	Electronics
	Instantaneous Beam Prediction Scheme Against Link Blockage in mmWave Communications	Adel Aldalbahi	Applied Sciences
	Performance and evaluation of Volterra Nonlinear Equalizer for coherent RoF mobile front-haul network: a case study of QOSTBC-OFDM and QOSTBC-GFDM waveforms	Adel Aldalbahi	Optical and Quantum Electronics
	An LSTM-Based Approach for Understanding Human Interactions Using Hybrid Feature Descriptors over Depth Sensors	M Alarfaj	IEEE Access
	Syntactic model-based human body 3D reconstruction and event classification via association based features mining and deep learning	M Alarfaj	PeerJ Computer Science
	Image-tag-based indoor localization using end-to-end learning	M Alarfaj	International Journal of Distributed Sensor Networks
2020	A Novel Modified Switched Inductor Boost Converter With Reduced Switch Voltage Stress	SHIMA SADAF	IEEE Transactions on Industrial Electronics
	Approximate Iterative Solutions of Hamilton-Jacobi Equations for Nonlinear Systems	M. D. Aliyu	IFAC J of Systems and Control
	Fractional Order PI Control for a Three-Phase Microgrid Application	Rasheed Abdulkader	IEEE Explore
	Fractional Order State Feedback Control for Improved Lateral Stability for Tractor-Trailers in Platooning	Rasheed Abdulkader	International Journal of Heavy Vehicle Systems

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2020	Detection of Human Body Movement Patterns Using IMU and Barometer	M Alarfaj	International Conference on Communications, Signal Processing, and their Applications (ICCSPA)
	Design of Auduino UNO WI-FI DMZ based Online Monitoring System for Solar Photovoltaic Power Systems	Mounir Bouzguenda	Journal of Electrical Engineering Education
	Time-Series Model for Forecasting Short-term Future Additions of Renewable Energy to Worldwide Capacity	Dr. Hesham Enshasy	IEEE Explore
	Elaborated Mathematical Model for Hydrogen-Hydrogen-Oxygen Energy Storage Cell	Dr. Hesham Enshasy	WSEAS Transactions on Circuits and Systems
	Investigation of Harmonics and Transient Overvoltages due to Capacitor Switching on Distribution Network,	Eng. Rajamohamed	International Journal of Adv. Science and Tech Current Issue
	EMF Analysis for a 380kV Transmission OHL in the Vicinity of Buried Pipelines	Eng. Rajamohamed	IEEE Access
	Stability Characteristics of Photovoltaic system using SVC Controllers,	Eng. Rajamohamed	Springer proceeding series
	EMF Analysis for a 380kV Transmission OHL in the Vicinity of Buried Pipelines	M.H Shwehdi	IEEE Access
	Investigation of Harmonics and Transient Overvoltages due to Capacitor Switching on Distribution Network,	M.H Shwehdi	International Journal of Adv. Science and Tech Current Issue
	A New Hamilton-Jacobi Differential Game Framework for Nonlinear Estimation and Output Feedback	M. D. Aliyu	Circuits, Systems and Signal Procc, Published online Aug. 2019: https://doi.org/10.1007/s00034-019-01229-4 , vo. 39, pp. 1831-1852, 2020.

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2020	An Improved Iterative Computational Approach to the Solution of the Hamilton-Jacobi Equation in Optimal Control Problems of Affine Nonlinear Systems with Applications	M. D. Aliyu	Int. J. of Systems Science, vol. 51, No. 14, pp. 2625-2634, 2020, published online Aug. 2020, https://doi.org/10.1080/00207721.2020.1799109
	Investigation of Harmonics and Transient Over voltages Due to Capacitor Bank Switching on Distribution Network	M Alarfaj	International Journal of Advance Science and Technology
	Co-simulation Improvement for Uncertain Flexible Robot Arm	Slim Chtourou	Journal of Electrical Engineering and Technology
	ManiGen: A Manifold Aided Black-box Generator of Adversarial Examples	Adel Aldabahi	IEEE Access
	Delay-Aware SFC Provisioning in Hybrid Fog-Cloud Computing Architectures	Adel Aldabahi	IEEE Access
	Deep Learning for Service Function Chain Provisioning in Fog Computing	Adel Aldabahi	IEEE Access
	Performance assessment of dual-polarized 5G waveforms and beyond in directly modulated DFB-laser using Volterra equalizer	Adel Aldabahi	Optical Engineering
	Link Recovery Scheme for Multi-Point mmWave Communications	Adel Aldabahi	Electronics
	Time-Series Model for Forecasting Short-term Future Additions of Renewable Energy to Worldwide Capacity	Mashhoor Altarayrah	IEEE Explore
	An Innovative Kernel Function for the NLM Filtering	Zayed M. Ramadan	ARPJ Journal of Engineering and Applied Sciences

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2019	Solar powered smart irrigaion system based on low cost wireless network	Mounir Bouzguenda	Int. Journal of Electrical Engineering Enducation
	FPGA SYNTHESIS AND VALIDATION OF PARALLEL PREFIX ADDERS	Dr. Hesham Enshasy	Journal of Acta Electronica
	A COMPREHENSIVE CONSTRUCTION OF HYDROGEN-HYDROGEN-OXYGEN (HHO) CELL AS RENEWABLE ENERGY STORAGE	Dr. Hesham Enshasy	Journal of Research in Engineering and Applied Sciences
	A Comprehensive Design of Unmanned Ground Search and Rescue Robot	Dr. Hesham Enshasy	Journal of Information and Computing Science
	Harmonic Analysis and Control of GISPVs under Normal and LVRT Operating Modes	Eng. Rajamohamed	International Journal of Innovative Technology and Exploring Engineering
	Solar-powered smart irrigation system based on a low-cost wireless network: A senior design project experience	Eng. Rajamohamed	International Journal of Electrical Engineering & Education
	DC-Link Voltage Control of a Grid-Connected Solar Photovoltaic System for Fault Ride-Through Capability Enhancement	Eng. Rajamohamed	Applied science
	Low voltage ride-through capability improvement of two-stage photovoltaic systems-A hybrid control approach	Eng. Rajamohamed	IEEE Explore
	Enhancing the FRT capability and power quality of a grid-connected solar photovoltaic system	Eng. Rajamohamed	Kalasalingam Global Conference-KGC
	Performance of the 10-KW KFU Grid-connected solar photovoltaic station, Al-Hasa, KSA	Eng. Rajamohamed	IEEE-Explore

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2019	DC-Link Voltage Control of a Grid-Connected Solar Photovoltaic System for Fault Ride-Through Capability Enhancement	M.H Shwehdi	Applied science
	Solar-powered smart irrigation system based on a low-cost wireless network: A senior design project experience	M.H Shwehdi	International Journal of Electrical Engineering & Education
	Performance of the 10-KW KFU Grid-connected solar photovoltaic station, Al-Hasa, KSA	M.H Shwehdi	IEEE-Explore
	A Hamiltonian Perturbation Approach to Construction of Geometric Integrators for Optimal Control Problems	M. D. Aliyu	Int. J. Applied and Computational Mathematics, 5:51, June, 2019, Published online April, 2019 https://doi.org/10.1007/s40819-019-0637-8
	Subarray Hybrid Precoding with Finite-Resolution PSs for Massive MIMO Capacity Maximization	M Alarfaj	IET Communications
	Model In the Loop Simulation of Flexible Joint Manipulator under Uncertainties	Slim Chtourou	International Journal of Computer Science and Network Security
	Multi-Backup Beams for Instantaneous Link Recovery in mmWave Communications	Adel Aldalbahi	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 Signal	Adel Aldalbahi	IEEE Photonics
	Design of XOR Photonic Gate using Highly Nonlinear Fiber	Adel Aldalbahi	Electronics

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2019	A COMPREHENSIVE CONSTRUCTION OF HYDROGEN-HYDROGEN-OXYGEN (HHO) CELL AS RENEWABLE ENERGY STORAGE	Mashhoor Altarayrah	Journal of Research in Engineering and Applied Sciences
	Effect of Kernel Size on Wiener and Gaussian Image Filtering	Zayed M. Ramadan	TELKOMNIKA: Telecommunication, Computing, Electronics and Control
	Nonlocal Means Scheme for Image Noise Reduction	Zayed M. Ramadan	ARNP Journal of Engineering and Applied Sciences
2018	Genetic Algorithm Application for the Allocation of Capacitor Banks on West-East Inter-Tie in Saudi Arabia	Eng. Rajamohamed	Computer and Electrical Engineering an International Journal, Elsevier publisher
	Hysteresis-based Voltage and Current Control Techniques for Grid Connected Solar Photovoltaic Systems: Comparative-Study	Eng. Rajamohamed	International Journal of Electrical and Computer Engineering
	Genetic Algorithm Application for the Allocation of Capacitor Banks on West-East Inter-Tie in Saudi Arabia	M.H Shwehdi	Computer and Electrical Engineering an International Journal, Elsevier publisher
	An Iterative Approach for Solving the Hamilton-Jacobi-Bellman-Isaacs Equations in Nonlinear Optimal Control	M. D. Aliyu	Control Thry and Technology, vol 16, pp. 38-48, Feb. 2018, Published online, Jan, 2018, DOI https://doi.org/10.1007/s11768-018-7079-4 (SCOPUS)
	A Local Iterative Approach for Solving the Hamilton-Jacobi-Bellamn-Isaacs Equations in Stochastic Optimal Control of Affine Nonlinear Systems	M. D. Aliyu	Optimal Control, Applications and Methods, vol. 39, 2, pp.997-1010, April, 2018. Published online, Dec 2017 DOI: 10.1002/oca.2393
	Subarray hybrid precoding for massive MIMO capacity maximization	M Alarfaj	IEEE Explore
	Generalizing Hybrid Beamforming Solutions for Massive MIMO Systems	M Alarfaj	IEEE Explore

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2018	Using IOIOAI in introductory courses to Embedded Systems for Engineering students: a case study	Slim Chtourou	International Journal of Electrical Engineering Education
	Role of Hardware Startups in Facilitating Electronics and Computer Science Education for Kids: Survey of Hardware Products	Slim Chtourou	Multidisciplinary Journal of Sciences and Research PONTE
	Fractional Order PI Control for a Three-Phase Microgrid Application	Rasheed Abdulkader	IEEE-Explore
	Optimum Image Filters for Various Types of Noise	Zayed M. Ramadan	TELKOMNIKA: Telecommunication, Computing, Electronics and Control