



2022  
**AEST**



## 2nd International Conference on Advances in Engineering Science and Technology

### *Certificate of Acceptance*

*This certificate is granted to*

**“Mohammed Rashad Ibrahim; Gailan Ismail Hassan”**

*Certifies the acceptance of research paper entitled:*

**(Study on Improving Mechanical Properties of Hybrid Composite by Adding Pinecone)**

*for presentation in AEST-2022*

*Which will be held on 24-25 October, 2022 at University of Babylon, College of Engineering, Babylon, Iraq.*

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Prof. Dr. Hatem Hadi Al-Taei  
Dean of the College of Engineering



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# Biomedical Engineering

Location :Civil Engineering Building/Ground Floor

Date:24-10-2022

Session Chairman : Dr.Hayder Mahdi Abdulridha, Session Coordinator: Dr.Ahmed Namah Hadi

Time		Article Title	Author Name
From	To		
12:30 PM	12:45 PM	Analytical Study of Normal Spine Movement Through the Gait Cycle	Haider Aboud Alsaigh
12:45 PM	1:00 PM	Biomechanics of the L4-5 Spinal Segment with Spondylolysis and Spondylolisthesis	Suhaib Al-Rubaie
1:00 PM	1:15 PM	Design and Fabrication of a Low-Cost Hand Rehabilitation Soft Robot for Paralyze	Saad Ali
1:15 PM	1:30 PM	Numerical Simulation of Chitosan Microspheres Production Using Emulsion Rheology	Zainab Imad Abdl Sattar
1:30 PM	1:45 PM	Role of Zr Addition on Microstrure and Corrosion Behavior of Porous Ti_22Nb	Zahraa Khalaf
1:45 PM	2:00 PM		
2:00 PM	2:15 PM		
2:15 PM	2:30 PM		

# Chemical and Electrochemical Engineering

Location :Civil Engineering Building/Ground Floor

Date:24-10-2022

Session Chairman : Prof.Dr.Kadhim Finteel Al-Sultani, Session Coordinator: Assis. Prof. Sata Kathum A. Ajjam

Time		Article Title	Author Name
From	To		
12:30 PM	12:45 PM	Demulsification of Synthetic Petroleum Wastewater	Aqeel Talib Kadhim Musa
12:45 PM	1:00 PM	Developing the corrosion behavior of carbon steel by TiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> sol-gel coating	Ammar hussein ali
1:00 PM	1:15 PM	Impressed Current Cathodic Protection of Carbon Steel Tube in Salt Solution at Different Temperatures	Ghofran Abdalkareem
1:15 PM	1:30 PM	Modeling the Effect of Operation Variables on Copper Ions Removal by Electrocoag	Marwa abd aljaleel
1:30 PM	1:45 PM		
1:45 PM	2:00 PM		
2:00 PM	2:15 PM		
2:15 PM	2:30 PM		

# Civil and Environmental Engineering

Location :Civil Engineering Building/Ground Floor

Date:24-10-2022

Session Chairman : Dr. Abbas Salem Abbas ,

Session Coordinator: Dr. Nabeel Al-Salim

Time		Article Title	Author Name
From	To		
12:30 PM	12:45 PM	Effect of Adding Tire Wastes on the LWSCC Properties in Fresh and Hardened states	Hiba Mohammed Baiee
12:45 PM	1:00 PM	GIS-Based Simulation of Arithmetic Weighted Water Quality in Hilla River, Iraq	Fatimah D. Al-Jassani
1:00 PM	1:15 PM	Hydraulic Performance of Flood Escape System Case Study:Kumait/Iraq	Maysam Qawmee Khalof
1:15 PM	1:30 PM	Numerical Simulation of Rationing System Effect on the Stability of Lined Canals	Alaa Hussien obyies
1:30 PM	1:45 PM	Stress-Dependent Soil-Water Relationship for Unsaturated Gypseous Sand	Mohammed Shakir Mahmood
1:45 PM	2:00 PM	The Effect of the Approaching Electrode on Cr/Zn Contaminated Soil Properties	zeina thamer jawad
2:00 PM	2:15 PM	Static and Dynamic Properties of Polymer Concrete	Zainab Jawad Allami
2:15 PM	2:30 PM		

# Mechatronics and Mechanical Engineering

Location :Civil Engineering Building/Ground Floor

Date:24-10-2022

Session Chairman : Dr. Haroun A.K.Shahad ,

Session Coordinator: Dr.Abdul Kareem Jalil

Time		Article Title	Author Name
From	To		
12:30 PM	12:45 PM	A review on the effect of residual stresses on the indentation results indentation	Lina Fadhil Kadhim
12:45 PM	1:00 PM	Continuous Variable Valve Time Engine Performance Fueled LPG and Gasoline	oras khudhayer obayes
1:00 PM	1:15 PM	Numerical Analysis for Four Concentric Pipe Heat Exchanger (FCPHE) of the Al-Mussaib thermal power plant in Iraq	Rana Ali Hussein
1:15 PM	1:30 PM	Study effect of adding pinecone of hybrid composite on mechanical properties	Mohammed Rashad
1:30 PM	1:45 PM		
1:45 PM	2:00 PM		
2:00 PM	2:15 PM		
2:15 PM	2:30 PM		

# Power System and Renewable Energy

## Micro/ Nano-Technology

### Laser and optical communications

Location :Civil Engineering Building/Ground Floor

Date:24-10-2022

Session Chairman : Dr. Isam Mahmood Abdulbaqi ,

Session Coordinator: Dr.Sarmad Ibrahim

Time		Article Title	Author Name
From	To		
12:30 PM	12:45 PM	A New technique of High-Voltage Power Supply for Electrostatic Precipitator	Mohammed Qasim Fadhil
12:45 PM	1:00 PM	An Approach for Optimal Under Frequency Load Shedding for Iraqi Power Network	Doaa Ali Kaittan
1:00 PM	1:15 PM	Assessment of Reliability Improvement and Power Loss Reduction Based on Reconfiguration and Optimal Capacitor Placement Techniques	Mohanad Muneer Yaqoob
1:15 PM	1:30 PM	Comparison of MPPT Techniques Using Metaheuristic Algorithms	Harith Nawfal Abdali Almusawi
1:30 PM	1:45 PM	Design and Simulation of 30 GHz Microelectromechanical Systems(MEMS) Resonator	Dhifaf Talal Shakir
1:45 PM	2:00 PM	An Investigation of Radio over Fiber Communication System Technology: Review paper	Hasan k. Al deen
2:00 PM	2:15 PM		
2:15 PM	2:30 PM		

# Communication and Information Technology

## Mobile and Wireless Communications

Location :Civil Engineering Building/Ground Floor

Date:24-10-2022

Session Chairman : Dr. Saad S. Hassooni,

Session Coordinator: Dr. Mustafa R. Ismael

Time		Article Title	Author Name
From	To		
12:30 PM	12:45 PM	Text steganography in image by using Turbo code _Walsh code transform's	Rafal Fadhil Jabbar
12:45 PM	1:00 PM	FPGA-Based Implementation of Polar Code Using Successive Cancelation Decoding	Zubaidah Mahdi Shamer
1:00 PM	1:15 PM	Classification and analysis of modern Error detection techniques in WSN	Fadil Fadheel
1:15 PM	1:30 PM	GFDM Transceiver System as Compared to OFDM	Ameer H Ali
1:30 PM	1:45 PM	Deep Learning Based Signal Detection in NOMA Systems: A Review	mohammed najeh kadhim
1:45 PM	2:00 PM	Design and implementation of wireless home smart meter network for power distribution system	Farqad Mohammad Naser
2:00 PM	2:15 PM	Enhance Spectral and Power Efficiencies by Combining MIMO and OFDM-SPM Schemes	Amneen Naji Fadhel
2:15 PM	2:30 PM	Bandwidth Reconfigurable UWB/Narrow Band Antenna for Ultra-Wide Band Application	Abdullah Ali Jabber

# Signal Processing and Intelligent Systems

## Software and Computer Engineering

### Networking and Cloud Computing

Location :Civil Engineering Building/Ground Floor

Date:24-10-2022

Session Chairman :Dr. Osama Qasim ,

Session Coordinator: Dr. Raed Saleem

Time		Article Title	Author Name
From	To		
12:30 PM	12:45 PM	Optimal short-time Fourier transform's Parameters and Gaussian window for Enhancing Signal Separation	Thamir R. Saeed
12:45 PM	1:00 PM	Progressive DCT Image Compression Based on Quad Tree Decomposition for WSN	Sakena Abbas Fadhel
1:00 PM	1:15 PM	Recognizing of the A-Scan Image of a Buried Object Using a Deep Network	Hussain Mumtaiz Hussain
1:15 PM	1:30 PM	Design of Intelligent Fractional-Order PID Controller Based on Ant Colony algorithm	Dr. Ahmed Kareem Abdullah
1:30 PM	1:45 PM	FPGA Implementation of MAC Unit for Artificial Neural Network Accelerators	Sabrin Alsayyab
1:45 PM	2:00 PM	Review About Retinal Lesion Detection Devices	Suhair Hussein
2:00 PM	2:15 PM	Design Cloud Computing System to Optimize University Power Consumption'	Israa Rasheed
2:15 PM	2:30 PM	Surveillance Door-Gates Authority Based Cloud Computing for Global	HASAN K. AL DEEN