



Technical Program Schedule and Contents

Session No.	Session 1	Session Track	DATA ANALYSIS	Date and Time
				Monday, June 27th / 2022 01:30 PM – 03:35 PM
Chairman	Asst.prof. Dr. Waleed khalid Abid Ali.	Coordinator	Dr. Ahmed Abdulkareem Hussein	Venue
				TM-A06

Presentation Schedule of Contributory Papers

Time	Paper ID	Author(s)	Title	Presenter
01:30 – 01:55	MESM_TELCOM_02	Hikmat N. Abdullah; Saad S. Hreshee; Ameer K. Jawad;	Performance Improvement of Chaotic Masking System Using Power Control Method	Hikmat N. Abdullah
01:55 – 02:20	MESM_DIG_IN_02	Yue Wu; Marwan Al-Akaidi;	A Study on the Multi-level Creative Visual Features for Oil Painting Creation	Yue Wu
02:20 – 02:45	MESM_FUZ_NEUR_15	Safa Ali Abed	Sign Language Recognition Review	Safa Ali Abed
02:45 – 03:10	MESM_FUZ_NEUR_13	Zahraa N. Kamal; Hawraa N. Jasim; Zaid I. Rasool; Ali R. Ramul;	Masked Face Detection Methods Based On Artificial Intelligent Techniques: A Review	Zahraa N. Kamal
03:10 – 03:35	MESM_DIG_IN_01	Omar Muayad Abdullah	Securing a Video Segment using Proposed Blurring and De-Blurring Techniques	Omar Muayad Abdullah



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Session No.	Session 2	Session Track	POPULATION HEALTH ANALYSIS	Date and Time
				Monday, June 27th / 2022 01:30 PM – 03:10 PM
Chairman	Prof. Dr. Khulood Waheeb Aboud	Coordinator	Dr. Merriam Ghadhanfar alwan	Venue
				TM-A07

Presentation Schedule of Contributory Papers

Time	Paper ID	Author(s)	Title	Presenter
01:30 – 01:55	MESM_MED_04	Fadwa Emad Al-Hayali; Aysegül Atak Yücel; Zainab Fadhel Ashoor;	Measurement of Serum Glutamic Acid Decarboxylase-65 Antibody (GADA65) Level and Glutamate Decarboxylase 2 (GAD2) Gene Polymorphism in Obese, Non-Obese Type II Diabetic Patients and Healthy Control Group	Fadwa Emad Al-Hayali
01:55 – 02:20	MESM_MED_50	Ragheed Hussam Yousif; Khulood Waheeb;	Analysis of Interaction of Cyperus esculentus Flavonoids and the Sperm Receptors of Albino Mice using Molecular Docking Approach	Ragheed Hussam Yousif
02:20 – 02:45	MESM_MED_01	Muataz Mohammed Al-Tae; Nidhal Abdul Mohymen; Subhi Jawad Hamza;	Direct and Indirect Measurements of NPHS2 Gene Expression in Iraqi Children with Nephrotic Syndrome	Muataz Mohammed Al-Tae
02:45 – 03:10	MESM_MED_24	Samar Muayad; Raghda Adnan; Nasser Ghaly Yousif; Karim Ghaly Mohammed; Najah Rayish Hadi;	Assessing the IL-37 in the Circulation of Iraqi Patients with Non-Small Cell Lung Cancer: a Prognostic Study	Samar Muayad



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Session No.	Session 3	Session Track	BIOMEDICAL ENGINEERING SIMULATION	Date and Time
				Monday, June 27th / 2022 01:30 PM – 04:00 PM
Chairman	Prof. Dr. Adnan Naji Jameel	Coordinator	Asst.prof. Dr. Ahmed Ali Akbar Akbar	Venue
				TM-A08

Presentation Schedule of Contributory Papers

Time	Paper ID	Author(s)	Title	Presenter
01:30 – 01:55	MESM_FUZ_NEUR_01	Saad M. Ali; Jenan S. Kashan; Auob Q. Mohammed; Tabarek S. Talib; Ameer M. Qasim;	Design and Manufacturing of a Low-Cost Nonconventional Controlling Intelligent Prosthesis	Saad M. Ali
01:55 – 02:20	MESM_SERV_INNOV_07_BIO	Diyaa H. J. Al-Zubaidi; Mohsin Al-Shammari;	Finite Element Analysis of a Dynamic Prosthetic Foot	Diyaa H. J. Al- Zubaidi
02:20 – 02:45	MESM_MED_26	Muhsin J. Jweeg; Mustafa A. Kodi;	Experimental and Numerical Simulation of a Non-Articulated Foot	Muhsin J. Jweeg
02:45 – 03:10	MESM_SERV_INNOV_32	A.H Jeryo; Jumaa S. Chiad;	A Review Study for Cooling and Air Circulation Systems for Sockets of Lower Limb Prosthesis	A.H Jeryo
03:10 – 03:35	MESM_MED_10	Hadeel Akeel Lafta; Hassanain Ali Lafta;	A New Approach for Measuring 3D Mandibular Kinematics in Healthy and TMD Individuals	Hadeel Akeel Lafta
03:35 – 04:00	MESM_MED_08	Hazem Ali Jasim; Hassanain Ali Lafta;	Simulation of Control Framework and Multisensor based Design for Autonomous Walker Assisted Device	Hazem Ali Jasim



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Session No.	Session 4	Session Track	URBAN SIMULATION & ENVIRONMENTAL SIMULATION	Date and Time
				Monday, June 27th / 2022 01:30 PM – 04:25 PM
Chairman	Prof.Dr. Ibtihal A. Mahmood	Coordinator	Dr. Shaimaa Hilal Kamel	Venue
				IC-B06

Presentation Schedule of Contributory Papers

Time	Paper ID	Author(s)	Title	Presenter
01:30 – 01:55	MESM_CIV_ENG_01	Ban Ali Kamil; Hamid Athab Al-Jameel;	Impact of Traffic Flow and Speed on Noise Level for Rigid Pavement under Different Pavement Condition Index	Ban Ali Kamil
01:55 – 02:20	MESM_CIV_ENG_02	Ali Imad Mansour; Hamid Athab AL-Jameel	Ambient Air Pollution for Arterial Streets in Al-Najaf City	Ali Imad Mansour
02:20 – 02:45	MESM_METH_07	Bareq. Musaab Jalal; Rashid H. Al-Rubayi;	Smart Control Building Strategy to Saving Power	Bareq. Musaab Jalal
02:45 – 03:10	MESM-ENERG_06	Waleed H. Habeeb	Stand-Alone Photovoltaic System to power Health Facility in Baghdad City, Iraq	Waleed H. Habeeb
03:10 – 03:35	MESM_CLIM_01	Ammar Daham Ayada;	Predicting the Soil Water Retention Curve using some Soil Water Properties	Ammar Daham Ayada
03:35 – 04:00	MESM_CIV_ENG_03	Iman Alwan; Riyadh Azzubaidi; Ali Fakhri;	Investigation of Velocity Profiles and Shear Stress at the lower Reach of Shatt Al Arab	Iman Alwan
04:00 – 04:25	MESM_CHEM_04	Saja Haider Mohammed; Nizar Jawad Hadi;	Numerical Approach for Enhanced Oil Recovery with Polymer Flooding using CMG-STARS Program	Saja Haider Mohammed



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Session No.	Session 5	Session Track	TELECOMMUNICATIONS DATA SIMULATION	Date and Time
				Monday, June 27th / 2022 01:30 PM – 03:35 PM
Chairman	Prof. Dr. Nasr N. Khamis	Coordinator	Asst. Prof. Dr. Ammar A. Abdul Kareem	Venue
				IC-B07

Presentation Schedule of Contributory Papers

Time	Paper ID	Author(s)	Title	Presenter
01:30 – 01:55	MESM_TELCOM_03	Mohammed Al-Dulaimi; Omer Al-Dulaimi; Aymen Al-Dulaimi;	Development and Study of Resource Blocks for Real-Time and Data Elastic Traffic in IMS/LTE Networks	Mohammed Al-Dulaimi
01:55 – 02:20	MESM_TELCOM_04	Ahmed H. Al-Batoosh; Basman M. Al-Nedawe; Mohamed Ibrahim Shuja'a;	Effectiveness Improvement of Offset Pulse Position Modulation System by using Reed–Solomon codes	Ahmed H. Al-Batoosh;
02:20 – 02:45	MESM_TELCOM_05	Karrar H. Abd Al-jabbar; Wael A. hadi;	Performance Comparison between MRT and ZF Precoding Techniques of Massive MIMO Wireless Communications System	Karrar H. Abd Al-jabbar
02:45 – 03:10	MESM_TELCOM_07	Fatimah Abdulnabi Salman; Bayan M. Sabbar;	Initial Phase Effect on Direction Finding Using Coprime Array	Fatimah Abdulnabi Salman
03:10 – 03:35	MESM_FUZ_NEUR_16	Hadeel S. Abed; Hikmat N. Abdullah;	Comparative Analysis of Greedy Algorithms Based Compressive Spectrum Sensing in Cognitive Radio	Hadeel S. Abed



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Session No.	Session 6	Session Track	INDUSTRIAL SIMULATION SOFTWARE	Date and Time
				Monday, June 27th / 2022 01:30 PM – 03:10 PM
Chairman	Asst.Prof. Dr. Jumaa S. Chiad	Coordinator	Dr. Fouad Abdel Amir Khalaf	Venue
				IC-B08

Presentation Schedule of Contributory Papers

Time	Paper ID	Author(s)	Title	Presenter
01:30 – 01:55	MESM_STUD_01_IND	Al-hadrayi Ziadoon M.R; Ahmed Naif Al-Khazraji; Ahmed A Shandookh;	A Review of FGM (Functionally Gradient Materials), Classifications and Production Techniques, from their Cost and Applications Prospective	Al-hadrayi Ziadoon M. R
01:55 – 02:20	MESM_MECH_E_26	Chen Li; Hongji Yang; Marwan Al Akaidi;	Using Breeze for Modelling Software Architecture of Component-Based Systems	Chen Li;
02:20 – 02:45	MESM_MECH_E_22	Karrar Baher; Imad A. Abdulsahib; Qasim A. Atiyah;	Monitoring the Change in Rotating Shaft Vibration Amplitude and the Effect of adding Active Magnetic Bearings	Karrar Baher
02:45 – 03:10	MESM_METH_05	Ali A.A. Mousa; Ali A. Khleif; Muhsin J. Jweeg;	Finite Element Modeling and Analysis of Hydromechanical Deep Drawing Process	Ali A.A. Mousa



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Session No.	Session 7	Session Track	AEROSPACE/ NAVAL ENGINEERING SIMULATION	Date and Time
				Tuesday, June 28th / 2022 09:00 AM – 11:05 AM
Chairman	Prof. Dr. Ahmed A.M. Saleh	Coordinator	Dr. Suhad A. Rasheed	Venue
				TM-A06

Presentation Schedule of Contributory Papers

Time	Paper ID	Author(s)	Title	Presenter
09:00 – 09:25	MESM_MECH_E_18	Ahmed Ali Farhan Ogaili; Mohsin Noori Hamzah; Alaa Abdulhady Jaber	Free Vibration Analysis of a Wind Turbine Blade Made of Composite Materials	Ahmed Ali Farhan Ogaili
09:25 – 09:50	MESM_IND_07	Bassam Salman Darweesh; Zied Driss; Muna.K. Abbass;	Microstructure Evaluation of Welded Gas Turbine Blade by a Layer of ERNiCrMo-3 with a Layer of ERNiCr-3 as Filler Alloys	Bassam Salman Darweesh
09:50 – 10:15	MESM_AERO_01	Ali J. Alkhafaji; Gennady S. Panatov; Anton S. Boldyrev;	Effect of Wing Planeform on improving the Aerodynamic Properties	Ali J. Alkhafaji
10:15 – 10:40	MESM_AERO_03	Mokdad Hayawi Rahman; Mohammed wahhab Aljibory; Emad Qasem Hussein;	Improvement of Aerodynamic Characteristics of NACA 0012 Airfoil using a Novel Technique	Mokdad Hayawi Rahman
10:40 – 11:05	MESM_METH_03	Alaa W. Hameed; Thomas Schumacher; Minjie Zhu;	A 2D Model Using PFEM for a Bridge Superstructure Subjected to a Wave Action	Alaa W. Hameed



Session No.	Session 8	Session Track	THERMAL SIMULATION	Date and Time
				Tuesday, June 28th / 2022 09:00 AM – 11:05 AM
Chairman	Prof. Dr. Ekhlas M. Alfayydh	Coordinator	Dr. Amar S. Abdul-zahra	Venue
				TM-A07

Presentation Schedule of Contributory Papers

Time	Paper ID	Author(s)	Title	Presenter
09:00 – 09:25	MESM_MECH_E_16	Gazy F. Al-sumaily; Moafaq K.S. Al-Ghezi; Louay A Mahdi; Hind A. Al salih; Marowa K. Abood; Salman H Omran; Waleed K. Alani; Sanaa A. Hafad; Hayder A. Dhahad;	Mixed Convection inside a Vertical Porous Cavity	Gazy F. Al-sumaily
09:25 – 09:50	MESM_ENERG_04	Gazy F. Al-sumaily; Waleed K. Alani; Sanaa A. Hafad; Moafaq K.S. Al-Ghezi; Slafa I. Ibrahim; Hind A. Al salih; Marowa K. Abood; Miqdam T. Chaichan; Hayder A. Dhahad;	Oscillatory Mixed Convective Flows within a Porous Canal Heated Partially from the Lower Surface	Gazy F. Al-sumaily
09:50 – 10:15	MESM_MECH_E_10	Ali D. Salman; Ayad M. AL Jubori;	Modelling of Critical Length of Capillary Tube under Adiabatic Flow of Zeotropic Blends Refrigerants	Ali D. Salman
10:15 – 10:40	MESM_ENERG_11	Ali A. Ibrahim; Moayed R. Hassan; Ali Alkhalaf;	Experimental Study of Convective Heat Transfer through (BCC and SC) Structured Packed Bed	Ali A. Ibrahim
10:40 – 11:05	MESM_ENERG_13	Karar A. Sameer; Qusay J. Abdul Ghafoor;	Numerical Analysis on Thermal Stratification Characteristics affected by the Baffle in the Thermal Storage Tank during discharging Process	Karar A. Sameer



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Session No.	Session 9	Session Track	MEDICAL RECONSTRUCTION ANALYSIS USING SIMULATION & NON-INVASIVE BIOMEDICAL AUGMENTATION	Date and Time
				Tuesday, June 28th / 2022 09:00 AM – 11:05 AM
Chairman	Prof. Dr. Abdul Kareem A. Kadhim	Coordinator	Asst. Prof. Dr. Ammar.D. Jassim	Venue
				TM-A08

Presentation Schedule of Contributory Papers

Time	Paper ID	Author(s)	Title	Presenter
09:00 – 09:25	MESM_STUD_03	Wisam Kadhim; Maythem Saad;	Reconstruction Methodology of the Damaged Skull Using Reverse Engineering Technique; Cranial Implant Production	Wisam Kadhim
09:25 – 09:50	MESM_MED_49	Maryam Abdullah; Samar Ali Samar Ali Shaabeth;	Patient Specific Computational Fluid Dynamics Model of Healthy Adult Airway	Maryam Abdullah
09:50 – 10:15	MESM_MED_18	Aws Zuhair Sameen; Munqith Saleem Dawood;	Design and Implementation of a Non-Invasive Blood Flow Measurement Device	Aws Zuhair Sameen
10:15 – 10:40	MESM_METH_06	Ayat R. Kamel; Esraa Zuhair Sameen; Jabir S. Aziz;	Design of Miniaturized Implantable Printed Spiral Antenna for Medical Application	Ayat R. Kamel
10:40 – 11:05	MESM_MED_14	Ilham S. Ahmed; Jinan F. Mahdi; Hamood Shehab Hamid; Mohammed Aboud Kadhim;	Design and Implementation a Multi-Rhombus Patch Fractal Antenna Structure for On-Human Body Wearable Medical Devices	Ilham S. Ahmed



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Session No.	Session 10	Session Track	HEAVY ENGINEERING SIMULATION & STEEL MANUFACTURING SIMULATION	Date and Time
				Tuesday, June 28th / 2022 09:00 AM – 11:05 AM
Chairman	Prof. Dr. Ihsan Y. Hussain	Coordinator	Asst. Prof. Dr. Jamal Fadhil Tawfeq.	Venue
				IC-B06

Presentation Schedule of Contributory Papers

Time	Paper ID	Author(s)	Title	Presenter
09:00 – 09:25	MESM_MECH_E_19	Saad k. Shather; Qussay S. Mahdi;	Experimental Investigation and Optimization of Machining Parameters using Electrochemical Machining	Saad k. Shather
09:25 – 09:50	MESM_MECH_E_14	Ahmed Ali Akbar; Otba. Hussein Alwa;	Characterizing the Effect of wt% of SiC Particles Addition to Aluminum Alloy (AA-2024) on Wear Behavior under Dry and Wet Media Reciprocating Sliding Contact	Ahmed Ali Akbar
09:50 – 10:15	MESM_IND_04	Mohammed Jabbar Fouad; Ibrahim Inanc; Ondukuz Mays; Muna Khethier Abbass;	Manufacturing Self-Lubrication Parts from Al-12wt%Si Matrix Composites Reinforced with Hybrid Nano Particles of MoS ₂ and BN	Mohammed Jabbar Fouad
10:15 – 10:40	MESM_IND_06	Jumana H. Kareem; Ibrahim K. Ahmed; Muna K. Abbass;	Improving of Hardness and Microstructure for Hot Forge Tool Steel by Laser Surface Treatment	Jumana H. Kareem
10:40 – 11:05	MESM-SERV_INNOV_03	Adnan I. Mohammed; Mohammed M. Jabar;	Effect Geometrical of Die and Blank Holder on Thickness Distribution of Sheet Metal Forming by Stamping Process	Adnan I. Mohammed



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Session No.	Session 11	Session Track	COMPOSITE MATERIALS SIMULATION	Date and Time
				Tuesday, June 28th / 2022 09:00 AM – 11:55 AM
Chairman	Prof. Dr. Mohsin Abdullah Al-Shammari	Coordinator	Prof. Dr. Rabeaa M. Shaker	Venue
				IC-B07

Presentation Schedule of Contributory Papers

Time	Paper ID	Author(s)	Title	Presenter
09:00 – 09:25	MESM_MED_06	Areege K. Abed; Ali. M. Mustafa; Ali M. Resen;	Evaluation of Experimental Design for Bioglass Coating for Co-Cr-Mo Alloy using EPD	Areege K. Abed
09:25 – 09:50	MESM_IND_01	Mohammed H. Khalaf; Suhad D. Salman;	Investigation of the Ability of Sugarcane and Glass Hybrids Enhanced with PVB to Resist Penetration by Low-Velocity Impact Tests	Mohammed H. Khalaf
09:50 – 10:15	MESM_FUZ_NEUR_07	Iman Q. Al Saffar; Mohsin Abdullah Al-Shammari; Moneer Hameed Tolephih;	Mechanics of Composite Plate Structure reinforced with Hybrid Nano Materials using Artificial Neural Network	Iman Q. Al Saffar
10:15 – 10:40	MESM_MECH_E_17	Muhanad H. Mosa; Mohsin Noori Hamzah	Perforation Resistance of Four Different Thicknesses of AISI-1080 Steel Plates subjected to Ballistic Impact	Muhanad H. Mosa
10:40 – 11:05	MESM_STUD_05	Mohsin Noori Hamza; Waad Adnan Khalaf;	Numerical Investigation of Impact Resistance of Honeycomb Composite Armor	Mohsin Noori Hamza
11:05 – 11:30	MESM_PHYS_ROB_05	Soror Ali Mahd; Suha Mousa Khorsheed Alawsi;	Effect of Grating Characteristics on Graphene Layers based Plasmonic Surface in Photodetectors	Soror Ali Mahd
11:30 – 11:55	MESM_IND_11	Sabreen A. Oudah; Hind B. Ali; Nassier A. Nassir;	Multi Objective Optimization of Fused Deposition Modelling Process for Improving Product Quality	Sabreen A. Oudah



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Session No.	Session 12	Session Track	FLUIDS SIMULATION IN MACHINING	Date and Time
				Tuesday, June 28th / 2022 09:00 AM – 10:40 AM
Chairman	Prof. Dr. Sattar Aljabair	Coordinator	Dr. Nibras M. Mahdi	Venue
				IC-B08

Presentation Schedule of Contributory Papers

Time	Paper ID	Author(s)	Title	Presenter
09:00 – 09:25	MESM_MECH_E_02	Karaar Mahdi Al-Araji; Almoussawi M. A.; Dhafer Manea Hachim; Kareem J. Alwan;	Simulation of Different Nanofluids to Analyze the Thermal Performance	Karaar Mahdi Al- Araji
09:25 – 09:50	MESM_ENERG_03	Mohammed A. Fayad; Hind A. Al salihi; Slafa I. Ibrahim; Sanaa A. Hafad; Marowa K. Abood; Moafaq K.S. Al-Ghezi; Gazy F. Al-sumaily; Miqdam T. Chaichan; Hayder A. Dhahad;	Impact of Various EGR Ratio and Engine Operating Conditions on Emissions Characteristics and Engine Performance in Diesel Engine fueled by Diesel-Ethanol Blends	Mohammed A. Fayad
09:50 – 10:15	MESM_CHEM_02	Sufyan Fadhil	Mass Transfer Mechanisms Determination by Pore Flow Model in Organic Solvent Nanofiltration Process	Sufyan Fadhil
10:15 – 10:40	MESM_MECH_E_25	Ali H. Al-helli; Wajdi Sadik Aboud; Salsabil Kareem Mohammed;	Finite Element Analysis of Composite Pressure Vessel with different Stiffener Designs	Ali H. Al-helli



Session No.	Session 13	Session Track	ENERGY INFRASTRUCTURE ANALYSIS & TRAFFIC SIMULATION ANALYSIS	Date and Time
				Tuesday, June 28th / 2022 09:00 AM – 11:05 AM
Chairman	Prof. Dr. Fareed Faris Rashid	Coordinator	Dr. Nasr Saadoun Abd	Venue
				IC-B09

Presentation Schedule of Contributory Papers

Time	Paper ID	Author(s)	Title	Presenter
09:00 – 09:25	MESM_FUZ_NEUR_03	Salam J. Bash Al-Maliki; Marwan A. Ashour;	The Adaptation of Artificial Neural Networks to predict the Production Trending of Future Renewable Energy	Salam J. Bash Al-Maliki
09:25 – 09:50	MESM_FUZ_NEUR_09	Hani. W. F; Aws Zuhair Sameen; A. N. Hussain; Mousa K. Wali;	High Impedance Fault Detection of Distribution Feeder based on Wavelet Transform and Feed-Forward Back Propagation Neural Network	Hani. W. F
09:50 – 10:15	MESM_ENERG_15	Roshen Tariq Ahmed; Moafaq K. S. Al-Ghezi; Miqdam T Chaichan; Salam W Shenin; Hussein A Kazem;	The Influence of Solar Chimney Parameters on its Efficiency and Operation	Roshen Tariq Ahmed
10:15 – 10:40	MESM_FUZ_NEUR_08	Mohammad Musaddak; Ammar D. Alethawy;	Review in Network Traffic Classification by using Deep Learning	Mohammad Musaddak
10:40 – 11:05	MESM_METH_01	Huda K. Hameed; Ekbal H.Ali; Ibtisam A. Hasan;	Simulation Model for Ground Vehicle Tracking using Optical Flow	Huda K. Hameed