



People's Democratic Republic of Algeria
Ministry of Higher Education and Scientific Research
University of Abdelhamid Ibn Badis Mostaganem
Faculty of Sciences and Technologies
Department of Mechanical Engineering



الملتقى الدولي الأول للأنظمة الصناعية والطاقة

**1st International Conference on Industrial System and Energy
(ICISE 2025)**

21 & 22 October 2025

Al Mansour Palace Hotel and Conference Venue, Mostaganem, Algeria

PROGRAMME

Mostaganem (Algeria)

<https://icise.univ-mosta.dz/>

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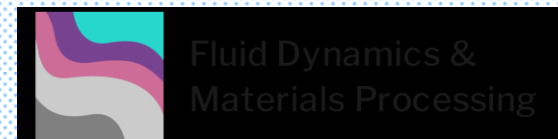
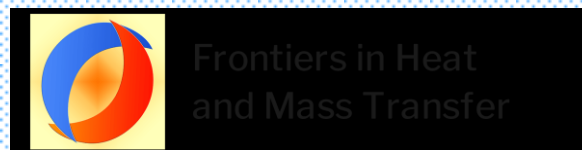
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SUPPORTED BY:



SCIENTIFIC PROGRAMME

TUESDAY, OCTOBER 21ST

08:00	Registration Reception	
08:30	Opening ceremony <i>President of the Mostaganem University: Pr. Hammou Amine Bouziane</i> <i>Dean of the Faculty of Sciences and Technologies: Pr. Ghazzer Moufek Rasouane</i> <i>Chairman of the conference: Dr. OULD SAID Belkacem</i>	
09:30	Plenary Talk 1: President Plenary: Prof. BEGHDAD ATMANI, Prof. TOUNSI ABDELOUAHED Dr. Mohamed DANI (Switzerland)	
10:30	1 st Coffee break + First session Poster presentation	
11:30	Plenary Talk 2: President Plenary: Prof. Rédha YOUNES BOUACIDA and Prof. BENHALILIBA MOSTEFA Prof. MIKHAIL A. SHEREMET (Univ. Tomsk State-Russia)	
12:30	Free Lunch time	
First session of oral presentations		
Room 1: Fluid dynamics and Nano-fluids Session Chairs: Prof. N. RETIEL and Prof. A. BENBRIK & Prof. A. BENAZZA		
14:00	(ICISE 25-01): BENNACEUR Mohamed Amine (Algerian space agency, Algeria)	Non-Premixed Combustion Analysis in Liquid Rocket Engine Chambers
14:25	(ICISE 25-02): GHEZAL Abderrahmane (USTHB, Algeria)	Analytical and numerical study of pulsating double diffusive flows in annular space.

14:50	(ICISE 25-03): BELHANAFI Abdelghani (USTO, Algeria)-	Etude Comparative Hydrodynamique Génères Dans Deux Cuves Carrée Mono et Bi-étagé.
15:15	(ICISE 25-04): BOUBENDIR Lynda (USTHB, Algeria).	Dynamics and Rupture of Liquid Bridges.
15:40	(ICISE 25-05): AIT AMIRAT Mokhtar (Mostaganem University, Algeria)-	MHD Natural convection of H ₂ O/Cu nanofluid in a baffled square cavity
Room 2: Modeling and Simulation Session Chairs: Prof. S. HOUAT and Prof. L. ADJLOUT & Prof. B. IMINE		
14:00	(ICISE 25-06): BEN MESSAOUD Safinaz (Laghouat University, Algeria)	Trajectory tracking control of an uncertain nonlinear elastic joint manipulator using feedback linearization with neural network compensation
14:25	(ICISE 25-07): BENSALEM Chafik (<i>Bouira</i> University, Algeria).	Comparison study on H ₂ /O ₂ and Ch ₄ /O ₂ diffusion flame structures
14:50	(ICISE 25-08): BOUKLI-HACENE Omar (Tlemcen University, Algeria)-	AI-driven hybrid modelling of complex bioprocesses for sustainable wastewater reuse: current advances and future challenges
15:15	(ICISE 25-09): Chenafi Mohamed Amine (<i>Ain Temouchent</i> University, Algeria).	First-principles study of the structural, electronic, and phonon properties of Ag ₂ ZnSnS ₄
15:30	2 th Coffee break + Second session Poster presentation	
Room 1: Fluid dynamics and Nano-fluids Session Chairs: Prof. MEKADEM MAHMOUD and Prof. OANNIS E. SARRIS, Prof. A. I. Ismail & Prof. B. IMINE		
16:00	(ICISE 25-10): FAIZA SAIDJ (USTHB, Algeria).	Effect of upstream configuration on hydrodynamic behavior of a vertical upward gas-liquid slug flow.
16:25	(ICISE 25-11): FAKHER Hamdi (Gabes University, Tunisia).	Experimental Study of the Thermal Behavior of a ZNO-based Nanofluid.
16:50	(ICISE 25-12): Laouar Soufiane (Nuclear Research Center of Birine CRNB, Algeria).	Simulation of the Effect of Nanofluids on Heat Transfer Characteristics Using a CFD Approach Coupled with a Neural Network.

17:15	(ICISE 25-13): ZIANI Lynda (Béjaia University, Algeria)-	Travelling waves at a controlled interface of a gravity- driven flow.
17:40	(ICISE 25-14): MEDEBBER A Mohamed (Mascara University, Algeria)-	Numerical Study of Combined surface radiation and Natural Convection in conical cavity field with nanofluid.
18:05	(ICISE 25-15): OULD SAID Belkacem (Mostaganem University, Algeria)-	Mixed Magnetohydrodynamic Nanofluid Convection in a Porous Square Domain
Room 2: Modeling and Simulation Session Chairs: Prof. S. LAOUEDJ and Prof. R. SAIM & Prof. O. IMINE		
16:00	(ICISE 25-16): BILEL Zouzou (USTHB, Algeria).	Numerical study of gas–liquid slug flow in horizontal mini-channels.
16:25	ICISE 25-17): DJAHFA Salim (Khenchel University, Algeria).	Estimating parameters values of battery lead-acid using Simulink Design Optimization
16:50	(ICISE 25-18): MEZAACHE Abderahmane (Skikda University, Algeria)-	Comparative Analysis of Thermal Performance in Packed Granular and Foam Wavy Porous Channel Heat Exchangers.
17:15	(ICISE 25-19): HOUAT Samir (Mostaganem University, Algeria),	Numerical study for Two Lid driven L–Shaped Cavity with Two-Relaxation Time (TRT) Lattice Boltzmann Model

SCIENTIFIC PROGRAMME

WEDNESDAY, OCTOBER 22nd

08:00	Registration Reception	
09:00	Plenary Talk 3 President Plenary: Prof. BENBRIK ABDERRAHMANE & Prof. RIDHA ENNETTA Pr. Sait Eren San-(Turkey)	
10:00	3 th Coffee break + Third session Poster presentation	
10:00	Plenary Online Talk 4 President Plenary: Dr. MOKHTAR KHALDI, Prof. BENHALILIBA MOSTEFA and Dr. DJAMEL BELATRACHE Prof. MAHANTHESH BASAVARAJAPPA Univ. (Texas - USA) Link: https://meet.google.com/tnb-vjrb-hkt	
Second session of oral presentations		
Room I: Materials engineering Session Chairs: Prof. H. GUECHICHI and Prof. B. BOUIADJRA & Prof. REBIAI ABDELKRIM		
11:00	(ICISE 25-20): BOUDALI Badreddine (USTHB, Algeria).	Superficial hardening of 316l alloy welded by rotary friction using the vibratory abrasion procedure.
11:25	(ICISE 25-21): KERBOUA bachir (Tlemcen University, Algeria)-	Interaction entre le Fonctionnement du Moteur Thermique et les gaz polluants Sur la consommation et l’Environnement.
11:50	(ICISE 25-22): BENASKEUR Naziha (Nuclear Research Center of Birine CRNB, Algeria).	Simulation of Electrochemical Dissolution of Silicon in Acidic Solutions for Nanomaterial Synthesis.
12:15	(ICISE 25-23): HAMZA Ayat Allah Ismahene (Oran 2 University, Algeria)-	Confection d’un mortier écologique à l’aide de poudre de pneus usagés.

12:40	(ICISE 25-24): BORDJIBA Zeyneb (Guelma University, Algeria)-	Substitutional strategies for magnetic transformation in two dimensional pts2.
13:00	(ICISE 25-25): Mokhtar Khaldi (Mascara University, Algeria)-	Enhancing mechanical and fracture performance of alfa fiber–reinforced polypropylene composites.
Room 2: Energy transition & Renewable energies Session Chairs: Prof. D. NEHARI ; Prof. RIDHA ENNETTA, Prof. OULD LAHOUCINE Cherif and Prof. KABAR YASSINE		
11:00	(ICISE 25-26): TSRIAT TAHANI Nor el houda (ENP- Oran MA, Algeria).	Comparative study of MPPT technique Algorithms for Solar PV Systems under changing environment conditions
11:25	(ICISE 25-27): GACEM Nadhir (USTO, Algeria).	Cooling By Night Application of a Thermal Flat Collector: radiative sky cooling
11:50	(ICISE 25-28): ABDELLI Islam Safia (Mostaganem University, Algeria).	Integrating Landfill Biogas into Renewable Energy Systems: A Pathway for Algeria's Energy Transition
12:40	(ICISE 25-29): Ridha Zitouni (Gabed University, Tunisia).	Hybrid metaheuristic–Levenberg-Marquardt approach for modeling and inverse estimation of fouling in phosphoric acid concentration processes
Room 3: Artificial intelligence in the industrial Session Chairs: Prof. M. MERAH and Prof. B. ATMANI & Dr. S. BENKERDAGH		
11:00	(ICISE 25-30): BENZIANE Sarah (USTO, Algeria).	A Review of Using AI for Process Control Optimization to Reduce Self-Consumption and Flared Gase
11:25	(ICISE 25-31): OUAMARA Nourhene (USTO, Algeria).	Detection of pollutants in coastal waters
11:50	(ICISE 25-32): MAHIEDDINE Ikram (Oran2 University, Algeria).	AI for Industrial Process Optimization: A Review of Impacts, Case Studies, and Critical Challenges
12:00	Plenary Talk 5 President Plenary: Prof. Wafik Mohammed Khemici, Prof. MOURAD MAGHERBI Prof. FENINECHE NOUREDINE (Univ. UTBM- France)	
13:00	Closing ceremony	

13:30	Free Lunchtime
	Scheduled visit to the various monuments of Mostaganem city

POSTER PRESENTATION LIST (First and Second Session)

TUESDAY, OCTOBER 21st

First session Poster presentation			
Fluid dynamics and Nano-fluids			
Session Chairs: Prof. KATTA RAMESH, Prof. OULD LAHOUCINE Cherif and Dr. Zina Meddeb			
(ICISE 25-P1)	Abdelaziz KHALDI	Numerical investigations of flow through a gradual widening.	(Mostaganem University, Algeria)-
(ICISE 25-P2)	ABDELLAHOUM Chahrazed	Improving the efficiency of photovoltaic solar cells using nanofluids.	(USTHB, Algeria).
(ICISE 25-P3)	LACHELAK Boutheyna	CFD Study of multiphase flow erosion in pipe elbow.	(Constantine University, Algeria)-
(ICISE 25-P4)	BOUGHAZI Dalila	Interfacial capillarity- gravity waves in finite depths.	(USTHB, Algeria).
(ICISE 25-P5)	BENMOUHOUB Dahbia	Numerical investigation of nanofluids jet impinging normally on a flat.	(USTHB, Algeria).
(ICISE 25-P6)	HOCINE Hadjer	Numerical study of new optical device for two-phase flow measurement.	(USTHB, Algeria).
(ICISE 25-P7)	OULD SAID Belkacem	Influence of Elliptical Cylinder Aspect Ratios on Magnetohydrodynamic Nanofluid Flow in Porous Cavities	(Mostaganem University, Algeria)-
Materials engineering			
Session Chairs: Prof. BOUCHOUCHA ALI, Dr. CHAABANE RAOUDHA, Dr. BERRAHIL FARID			
(ICISE 25-P8)	ZAIM Abdel-Nour	Numerical analysis of plastic deformation in notched pvc arched specimens under uniaxial tension	(Mascara University, Algeria)-
(ICISE 25-P9)	MESSAOUDI Souad Ilham	Comparative First-Principles Study of the Structural and Physical Properties of the Heusler Alloys TbInCu ₂ and TbInAg ₂	(Ain-Temouchent University, Algeria)-
(ICISE 25-P10)	FODIL Zahra	Eco-friendly phenol removal using palm leaf: insights into adsorption efficiency and kinetics.	(Saida University, Algeria)-
(ICISE 25-P11)	NAOUM Halima	Numerical study of Isp on Ti-6al-4v and al 2024-t351 discs via	(sidi bel abbes University, Algeria).

		johnson-cook model.	
(ICISE 25-P12)	ADDOU Farouk Yahia	Static behavior of fg sandwich beams under various boundary conditions using trigonometric series solutions and rhsdt	(Mostsganem University, Algeria)-
(ICISE 25-P13)	HADJADJ Mohamed	Numerical investigation of pcm-enhanced hollow clay bricks for cooling load reduction in hot climates	(Ain Temouchent University, Algeria)-
Energy transition & Renewable energies Session Chairs: Prof. HARROUZ ABDELKADER, Prof. SMAIL BENISSAAD			
(ICISE 25-P14)	MESSAOUDI Lazhar	Technical and economic assessment of urban rooftop photovoltaic systems for power generation in bamendil, ouargla (algeria).	(Ouargla University, Algeria)-
(ICISE 25-P15)	KACI Meziane	Designing a low-cost smart grid for rural areas using edge ai to support renewable energy integration	(Khemis Miliana University, Algeria).
(ICISE 25-P16)	LAOUAR Salima	Numerical study of heat transfer in buildings using mpcms for improved thermal performance	(CDER Ghardaïa, Algeria)-
(ICISE 25-P17)	BENYETTOU Aicha	Advanced UV detection technology: MSM photo detector design integrated into ingan/algan/gan heterostructure	(Tlemcen University, Algeria)-
(ICISE 25-P18)	KHELLADI Malika	Thermal valorization of sewage sludge	(Mostaganem University, Algeria)-
(ICISE 25-P19)	BELIMANE Zakarya	Geomechanical modeling of rock integrity during co₂ sequestration operations	(Boumerdes University, Algeria).
ICISE 25-P20	BENNACEUR Djihad	Soil Thermal Response to Salinity Variations: Implications for Shallow Geothermal Energy in Arid Regions	(Mostaganem University, Algeria).
Modeling and Simulation Session Chairs: Prof. HANUMESH VAIDYA, Prof. RIDHA ENNETTA			
(ICISE 25-P21)	TIFOUR Meriem Hidayet	Numerical modeling and fracture analysis of cracked functionally graded thermal barrier coatings under thermo-mechanical	(Sidi bel abbes University, Algeria).

		loading	
(ICISE 25-P22)	OUALI Mohamed	Vibration monitoring and mechanical fault diagnosis centrifugal finisher pump application	(Blida University, Algeria).
(ICISE 25-P23)	Fatima Zohra BENAOUINA	Molecular structure and theoretical analysis of 2-nitrophenyl 4-(octyloxy) benzoate for functional material applications.	(Mostaganem University, Algeria).
(ICISE 25-P24)	BOUBEGRA Naima	Non-linear optical properties of two bioactive compounds: dmachb and dnbp (similar molecule) by dft study.	(Mostaganem University, Algeria).

Second session Poster presentation			
Fluid dynamics and Nano-fluids			
Session Chairs: Prof. RIDHA ENNETTA, Prof. GHEZAL ABDERRHMANE			
(ICISE 25-P25)	MEBARKI Bachir	Optimization of the Flow of Submerged Spillways in Hydro-Geotechnical Structures for Sustainable Water Management in Industry and Energy.	(Jijel University, Algeria)-
(ICISE 25-P26)	Mecieb Fatima Zohra	Numerical Analysis of Airflow and Heat Transfer in a Jet Impingement Solar Collector.	(sidi bel abbes University, Algeria).
(ICISE 25-P27)	MODERRE S Mourad	Combined Effects of Magnetic Field Intensity and Ventilation Opening on Mixed Convection in a Nanofluid-Filled Cavity.	(Khemis Miliana University, Algeria).
(ICISE 25-P28)	Mekedeme Abdelah	Modeling the Interaction Between Drilling Mud and PDC Bits Under Varying Flow Conditions	(Boumerdes University, Algeria).
(ICISE 25-P29)	TOUATI H Imene	Étude numérique de la Convection naturelle dans une cavité quadrangulaire remplie d'un nano fluide	(Mostaganem University, Algeria).
(ICISE 25-P30)	Nassim M. Sahraoui	Mixed convective flow of hybrid nanofluid in a trapezoidal enclosure	(Mostaganem University, Algeria).
(ICISE 25-P31)	AIT AMIRAT Mokhtar	Numerical study of mhd natural convection in a partially porous trapezoidal cavity filled with nanofluid	(Mostaganem University, Algeria).

(ICISE 25-P32)	BENNACE UR Hadjar	Hydrodynamic Response of Two-Lobe Journal Bearings: Influence of Groove Arc Length and Power-Law Lubrication	(Khemis Miliana University, Algeria).
Materials engineering Session Chairs: Dr. METTATLA NOUREDDINE, Dr. Huda Fish and Dr. BENDOUKHA Mohamed			
(ICISE 25-P33)	LAKHDAR Abderrahmane	Comprehensive experimental characterization of the orthotropic behavior of a glass/epoxy laminated composite: elastic moduli, shear properties, poisson's ratio, and numerical validation	(USTHB, Algeria).
(ICISE 25-P34)	LAKLI Brahim	Repair of corroded aluminum plates using a friction stir-based technique	(Relizane University, Algeria)-
(ICISE 25-P35)	BABAKHAL I Mohamed	Experimental study of mechanical behavior of steel under galvanizing operation	(Mascara University, Algeria)-
(ICISE 25-P36)	BELKAFOU F Nour EL houda	Structure–property relationships in new organic semiconductors for bulk heterojunction solar devices: a computational approach	(Mostaganem University, Algeria)-
(ICISE 25-P37)	OTSMANE Rachida	Numerical simulation of grafting density on phosphonate-functionalized silicon nanoparticles	(Nuclear Research Center of Birine CRNB, Algeria).
(ICISE 25-P38)	MADOUN E Yassine	Numerical Stress Modeling Using FEM in Patient-Specific Design of Removable Complete Dentures	(Mostaganem University, Algeria)-
(ICISE 25-P39)	BELOUFA Imène	Local mechanical characterization enhancement of epoxy resin reinforced with carbon nanotube additives	(Mostaganem University, Algeria)-
Energy transition & Renewable energies Session Chairs: Dr. NOUICER ILYES, Dr. GUERBAI SALAH and Dr. MEDJAHED Bendida			
(ICISE 25-P40)	BOUAMRA Messaoud	Blocking factor influence on heliostat field efficiency in solar tower plants	(Relizane University, Algeria).
(ICISE 25-P41)	CHOUITEK Mama	Analytical versus simulation-based sizing of stand-alone photovoltaic systems using pvsyst	(Oran 2 University, Algeria).

(ICISE 25-P42)	MAHIAOUI Rekia	Study of the electronic and optical properties of the compounds $\text{Na}_2\text{MgGe}_2\text{Te}_6$ (m=cd, zn, hg)	(Tlemcen University, Algeria)-
(ICISE 25-P43)	BELKACEM- M FILALI	Optimizing energy conversion: power electronics in pv-ro desalination systems	(Blida University, Algeria)-
(ICISE 25-P44)	MISSOUM Khawla	Improving thermal transport in a latent heat thermal energy storage system using aluminum fins	(Tlemcen University, Algeria)-
(ICISE 25-P45)	MHALA Toufik	Shallow geothermal energy: a permanent solution for heating and cooling under our building	(Mostaganem University, Algeria).
(ICISE 25-P46)	HADDAM Amine	Influence of alumina (Al_2O_3) nanoparticles on heat transfer enhancement of phase change material (RT54HC)	(Mostaganem University, Algeria)-
(ICISE 25-P41)			
(ICISE 25-P47)	HEBBAR IMENE	Numerical simulation of mixed-mode fracture in homogeneous materials	(Mostaganem University, Algeria).
(ICISE 25-P48)	BENZENINE Fadéla	A CFD model of the effect of spherical silver particle size on hydrogen peroxide decomposition in monopropellant thruster	(Tlemcen University, Algeria).
(ICISE 25-P49)	GASSOUMI Mehrez	Numerical study of the combustion of biodiesel blends in a diesel engine	(Gabed University, Tunisia).
(ICISE 25-P50)	NEHAOUA Nadia	A comparative study on the physical performance of silicon heterojunction photovoltaic cells	(Boumerdes University, Algeria).
(ICISE 25-P51)	Nassim M. Sahraoui	Numerical computations of mhd natural convection flow of ferrofluid in a U-shaped cavity	(Mostaganem University, Algeria).
(ICISE 25-P52)	SENOUCI Moussa	Dynamic Deployment of Horizontal Partitions for Efficient CO Dispersion and Ventilation in a 2D Industrial Domain: A CFD Approach	(Mostaganem University, Algeria)-

POSTER PRESENTATION LIST (Third Session)

WEDNESDAY, OCTOBER 22nd

Third session Poster presentation			
Materials engineering			
Session Chairs: Prof. BOUCHOUCHA ALI, Prof. ZENASNI RAMDANE and Dr. KHELIL FODIL			
(ICISE 25-P53)	<u>AOUINET</u> <u>Mechri</u>	Etude de l'impact des conditions climatologiques sur les propriétés du matériau plastique d'une serre agricole.	(Tiaret University, Algeria)-
(ICISE 25-P54)	ZELLAG Saliha	Improving performance of dye-sensitized solar cells using TiO ₂ and ZnO nanostructures	(Bejaia University, Algeria)-
(ICISE 25-P55)	ZINEB fares	Comprehensive examination of the properties and applications of smart perovskites materials for renewable energy applications.	(Mostaganem University, Algeria)-
(ICISE 25-P56)	BENDAHOU Tawfiq	A new analysis of nonlinear free vibration behavior of bi functionally graded sandwich SHELL using the p-version of the finite element method	(Tlemcen University, Algeria)-
(ICISE 25-P57)	DIF Sofiane	A Sound Perception Approach to Fault Detection in Rotating Machinery	(USTHB, Algeria).
(ICISE 25-P58)	CHENINE Halima	Mechanical Characterization in Three-Point Bending of Sandwich Pipelines with Sand Core	(Mostaganem University, Algeria)-
Energy transition & Renewable energies			
Session Chairs: Prof. ADJLOUT LAHOUARI, Prof. BOURAS FETHI, Dr. GUERBAI SALAH			
(ICISE 25-P59)	OTMANI Fatima Zohra	Simulation and optimization of mapi based perovskite solar cells with ZnO as electron transport layer	(Tlemcen University, Algeria)-
(ICISE 25-P60)	MOUSSAOUI Salah Eddine	Impact of climatic region on the thermal performance of heat pumps in shallow geothermal systems	(Mostaganem University, Algeria)-
(ICISE 25-P61)	BENSENOUCI	Numerical simulation and performance optimization of tandem organic	(Tlemcen University, Algeria)-

	Souhila	solar cell with improved efficiency	
(ICISE 25-P62)	Houari Toufik Ahme	Evaluation of electromagnetic field interactions with the human body during the oued el abtal power outage on the bir ghablou-hassi ameur 400kv power line.	(Mascara University, Algeria)-
(ICISE 25-P63)	Houari Toufik Ahmed	Impact of dust deposition on the electrical performance of photovoltaic modules.	(Mascara University, Algeria)-
(ICISE 25-P64)	Mouffok Youcef	Thermoelectric properties of new half heusler alloys for renewable energy	(Mostaganem University, Algeria)-
(ICISE 25-P65)	ZEHOUBANI Zahra Assala	Optimizing PCM integration for improved thermal regulation in clay bricks: impact of pcm positioning on heat transfer.	(Ain Temouchent University, Algeria)-
Artificial intelligence in the industrial Session Chairs: Session Chairs: Dr. M. BENTOUMI and Dr. D. HAMAMI & Dr. K. SEHABA			
(ICISE 25-P66)	RABAH ABDELKADER	Rolling Bearing Defect Diagnosis based on Variational Mode Decomposition and an Improved Thresholding Method.	(Khmeis Milianat University, Algeria)-
(ICISE 25-P67)	AOUIMER Yamina	Application of Random Forest Classification to Intelligent Predictive Maintenance: An Industrial Case Study.	(Oran 2 University, Algeria)-
(ICISE 25-P68)	MENASRIA Massiva	An IoT-Edge Embedded System with Predictive Artificial Intelligence for Proactive Monitoring of High-Vigilance Hospital Patients.	(ENP Oran, Algeria)-
(ICISE 25-P69)	CHAKER Abdelkrim	Optimization Multi-objective of Heterogeneous Systems under Reliability Constraints Using Bat Algorithm.	(Saida University, Algeria)-
(ICISE 25-P70)	SABRI Khier	Data-Driven Digital Twin for Centrifugal Compressor Discharge Pressure Prediction.	(Boumerdes University, Algeria)-
(ICISE 25-P71)	SENOUCI Moussa	Artificial Intelligence for Thermal–Hydraulic Optimization of Tube Bank Heat Exchangers with Splitter Plates	(Mostaganem University, Algeria)-

Modeling and Simulation Session Chairs: Prof. HANUMESH VAIDYA, Dr. GUERBAI SALAH			
(ICISE 25-P72)	ABDELMALEK Noureddine	Numerical Study of Natural Convection in a Partially Open-Ended Enclosure Heated by Bellow wit the Lattice Boltzmann Method.	(Mostaganem University, Algeria)-
(ICISE 25-P73)	KLOUCHA Omar KADA	Calibration of an activated sludge model no.1 using experimental data from the tlemcen wastewater treatment plant	(Sidi bel abbes University, Algeria).
(ICISE 25-P74)	SEDJAR Sarah Kawther	advanced modeling and performance optimization of a monocrystalline photovoltaic cell for embedded solar systems	(ENP Oran, Algeria).
(ICISE 25-P75)	ATTOU Youcef	reynolds number and groove modifications impact on jet impingement reynolds number and groove modifications impact on jet impingement cooling of electronic devices	(Mostaganem University, Algeria).

ONLINE PRESENTATION LIST
WEDNESDAY, OCTOBER 22nd

10:00-10:20	Plenary Online Talk 4, Room Link: https://meet.google.com/tnb-vjrb-hkt President Plenary: Dr. MOKHTAR KHALDI, Prof. BENHALILIBA MOSTEFA, and Dr. DJAMEL BELATRACHE Prof. MAHANTHESH BASAVARAJAPPA Univ. (Texas - USA)		
Third session Poster presentation Room Link: https://meet.google.com/tnb-vjrb-hkt			
Fluid dynamics and Nano-fluids Session Chairs: Dr. MOKHTAR KHALDI and Dr. DJAMEL BELATRACHE			
(ICISE 25-I 01) 10:30-10:45	ABDI Mohamed	Conjugate Natural Convection Coupled with Thermal Radiation Heat Transfer of Carreau Fluid	(Tiaret University, Algeria)-
Energy transition & Renewable energies Session Chairs: Dr. MOKHTAR KHALDI and Dr. DJAMEL BELATRACHE			
(ICISE 25-I 02) 10:45-11:00	Baala Seddik	Enhanced Grid Stability in PV Systems Through Integrated MPPT and Deep Neural Network-Based VSC Control	(Adrar University, Algeria)-
(ICISE 25-I 03) 11:00-11:15	DAHOU BRAHIM	Study and Control of a Wind System Based on Doubly Fed Induction Machine	(USTHB, Algeria)-
(ICISE 25-I 04) 11:15-11:30	Saddam Hocine Mellah	The investigation of the impact of the inclination of U-shaped Fins tubes on the thermal storage of copper nanoparticle-enhanced PCM in an octagonal unit	(Mascara University, Algeria)-
(ICISE 25-I 05) 11:30-11:45	Hafidha BOUCHAABA	Application of Solar Technology in the Treatment of Wastewater Contaminated by Textile Effluents	(Mascara University, Algeria)-
(ICISE 25-I 06) 11:45-12:00	Nadia Bouaziz	Modeling and Simulation of Perturb and Observe MPPT Control for PV Systems Using MATLAB/Simulink	(Tizi-Ouzou University, Algeria)-
(ICISE 25-I 07)	KRAMOU Ilhem	Comparison of DC-DC Boost converters for photovoltaic applications	(Blida University, Algeria)-

12:00-12:15			
(ICISE 25-I 08) 12:15-12:30	GUERROUT Abdessamed	Numerical Modeling of Thermal Transfer in Mortar Wall with mPCM using COMSOL Multiphysics Abstract	(Mostaganem University, Algeria).
(ICISE 25-I 09) 12:30-12:45	CHAICH Zineb	Évaluation expérimentale de la perte de rendement des panneaux photovoltaïques induite par l'accumulation de poussière	(Ouargla University, Algeria)-
Materials engineering Session Chairs: Prof. HARROUZ ABDELKADER and Prof. BENHALILIBA MOSTEFA			
(ICISE 25-I 10) 12:45-13:00	Guerine Mohammed Housseem Eddine	Analytical Solution for Free Vibration Analysis of FG-CNTRC Plates Using a New Integral High-Order Shear Deformation Theory	(Naama University, Algeria)-
(ICISE 25-I 11) 13:00-13:15	Boukhalkhal Nabila Ahlam	Free Vibration analyses of Antisymmetric laminated Carbon Nanotube-reinforced functionally graded laminated plates	(Djelfa University, Algeria)-
(ICISE 25-I 12) 13:15-13:30	Djelid Khadidja	Boosting the Efficiency of Thermoelectric Modules through Strain Engineering	(Mascara University, Algeria)-
(ICISE 25-I 13) 13:30-13:45	Meftah Souad	Multi-Scale Computational Modeling Coupled with Experimental Validation of Talc/Polypropylene Composites Using Digimat Mean-Field Homogenization	(Mascara University, Algeria)-
Modeling and Simulation Session Chairs: Dr. MOKHTAR KHALDI and Dr. HICHEM NECIB			
(ICISE 25-I 14) 13:45-14:00	Romaissa Hachana	Revisiting Critical Ventilation Velocity in Tunnel Fires: A CFD-Based Evaluation of Additional Geometric Influences	(Blida University, Algeria)-
(ICISE 25-I 15) 14:00-14:15	Djamel Belatrache	CFD Simulation for enhancing heating room efficiency using a Trombe wall.	(Ouargla University, Algeria).
(ICISE 25-I 16) 14:15-14:30	Aissa Gounni	3D CFD study of a geothermal heat exchanger in the region of Ouargla.	(Ouargla University, Algeria).

GENERAL INFORMATION



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