



The First International Conference on Materials, Environment, Mechanical and Industrial Systems ICMEMIS'19

29-30 June 2019, Djelfa, Algeria

URL: <http://www.univ-djelfa.dz/icmemis19/>

Program

28/ 06 / 2019 Afternoon: Registration / hotel Sofyan, Djelfa City	
29/ 06 / 2019	
8 h – 9 h 00	Registration, Djelfa University
9 h 00 – 09 h 30	Opening Ceremony (Saihi Mohamed Auditorium) Prof. Belgoumene Berrezoug , Dr Yahia Lasbet, Dr. Mouloud Guemana
09 h 30 – 10 h 00	Plenary Session 1 DESIGN AND MODELING ASPECTS OF SMALL WIND TURBINES REALIZATION Dr Krzysztof Blecharz Gdansk University of Technology (Politechnika Gdanska), Gdansk Poland Chairs : Prof. Mokhtar FODILI, Prof. Abdellah KOUZOU
10 h 00 – 10 h 30	Plenary Session 2 ALTERNATIVE FUELS FOR AN ENERGY AND ENVIRONMENTAL TRANSITION Dr Khaled LOUBAR IMT Atlantique Campus de Nantes, France Chairs : Prof. Brahim El Khalil HACHI, Prof. Kamal MOHAMMEDI
10 h 30 – 11 h 00	Plenary Session 3 MATERIALS FOR ENERGY: A KEY ISSUE FOR SCIENTIFIC AND SUSTAINABLE DEVELOPMENT Prof. Abderrazak BOUZID Materials and Electronic Systems Laboratory, Bordj Bou Arreridj University, Algeria Chairs : Prof. Larbi BOUKEZZI, Prof. Otmame BOUKENDAKDJI
11 h 00 – 11 h 10	Coffee break





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Program

29/ 06 / 2019: Oral Sessions



	Session A	Session B	Session C
Chairs	Pr Mohammed MAKHLOUF, Dr Yahia LASBET	Pr BOUKENDAKDJI O., Dr Benhmed Baized	Pr Abdelhalim Tlemçani, Dr Lekhmissi Charoun
11h10 - 11h30	ID 192. BOUAYAD AGHA M. EL-MEHDI, RAS ABDELOUAHAB, HAMD AOUI KARIM, Study of the fluid properties effect on the non-linear behaviour of fluid viscous damper	ID 108. BOUZIANE ABDERREZAK, BENAMAR AHMED, TAHAKOURT ABDELKADER, Experimental investigation of the effects of internal erosion on shear resistance characteristics of sandy soils	ID 205. LARBI MESSAOUDA, LARBI SAMIRA, ROUINI ABDELGHANI, MESSALI ZOUBEIDA, A New robust stochastic level set image segmentation method: Application to medical images
11h30 - 11h50	ID 59. BACHIR ABES, BACHIR IMINE, CFD Study of a turbulent flow around a morphing winglet	ID 395. MOHAMED AMIN BOUZIDI, NEDJMA BOUZIDI, Valorization of waste glass as replacement of sand in cement mortar	ID 345. SOLTANI KHAOLA, BENZOUAI MESSAOUD, MOHAMED DJAMEL MOUSS, Optimization of maintenance under double constraints, security and availability: Case study
11h50 - 12h10	ID 356. RAHMOUNA CHERIET, BOURASSIA BENZAAD, FATIHA BOUHADJELA, SARA DJEDOU, ABDELAZIZ BENAMAR, Comparative study of thermal contact resistance	ID 63. AMIRA SADGUI, ABDELOUAHAB TATI, SOUHIA BOUADJADJA, First-order shear deformation theory model for the bending analysis of functionally graded isotropic and sandwich plates	ID 195. WISSAM DEHINA, MOHAMED BOUMEHRAZ, FREDERIC KRATZ, JACQUES FANTINI, Diagnosis and comparison between stator current analysis and vibration analysis of static eccentricity faults in the induction motor
12h10 - 12h30	ID 369. MESSAI T., MOUSSAOUI M., SLATNI Y., Numerical simulation of turbulent natural convection in square cavity	ID 359. YOUSSEFI FATIMA ZOHRA, BOUKLI HACENE SIDI MOHAMMED EL AMINE, TALEB OMAR, Durability of concretes with regard to leaching : From literature to choosing a test protocol	ID 216. ABDELKARIM AMMAR, AISSA KHELDOUN, BRAHIM METIDJI, AMOR BOUREK, ABDELHAMID BENAKCHA, Design and implementation of robust feedback linearization for induction motor flux and torque control using super twisting algorithm
12h30 - 12h50	ID 279. ZEBBOUDJ MUSTAPHA, MOHAMMEDI KAMAL, ZERIZER ABDELATIF, Biomass densification techniques for solid biofuel production	ID 185. OUMEDOUR AMIRA, LAZZALI FARAH, Vulnerability assessment of an existing reinforced concrete shear wall building	ID 210. MOHAMED ZINE ZIZOU, BEKHEÏRA TABBACHE, MOHAMED BENBOUZID, Direct power control and MPPT strategy of a photovoltaic power system- based electrical grid connexion





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	Session A 1	Session B 1	Session C 1
Chairs	Dr Aidaoui lakhdar, Dr Mounir ZIRARI	Pr HANINI SALAH, Dr Moussaoui Mustapha	Pr ABUDURA SALAM, Dr Kouider Laroussi
12h50-13h30	ID 05. ALAMI AHMED, BENZAAMA M.H., BOUCHAM B., ALLALI A., BELBACHIR S., MAKHLOUF M., BOUCHIKHI A.S., Numerical and comparative study of the combined geothermal-solar system in the Algerian context	ID 351. ADEL SAOUDI, SOLIMAN BELKAHLA, LEILA DEKHIL, SAID BOUDEBANE, DJAHIDA LERARI, L'HADI ATOUI, KHALDOUN BACHARI, Heat treatments and characterization of a ternary copper based alloy CuZnAl	ID 273. BENKAOUHA B., BELLALA D., SMAIAH M., DJEBABRA M., Development of systemic modelling integrating fire safety barriers
	ID 224. BENOUIS FATIMA ZOHRA, BENAMARA NABIL, AIMALLAH MILOUD, LAHCEN ABELKADER, BOULENOUAR ABELKADER, Effect of channel's geometry of a cross flow heat exchanger on enhancing heat transfer: Numerical study	ID 170. ZEGGAI OUSSAMA, BELARBI MOUSSAAB, OULEDABBES AMARIA, MOULOU DJ HADJ, Biological contribution of microsensor to field effect for the enzymatic detection of glucose	ID 135. ZADRI ZIANE, GLAOUI BACHIR, ABDELKHALEK OTHMEN, MISSAOUD MIMOUNA, Electrical resistivity for Non-destructive testing applied to asphalt concrete
	ID 235. MOHAMED ABDI, MERYEM OULDRUISS, ABDELKADER NOUREDDINE, LES of turbulent flow of the non-newtonian fluid: The turbulence statistics	ID 123. BAROUR SABIHA, ABDESSELAM ZERGUA, WALEED ABED JASIM, Finite element analysis of reinforced concrete beam retrofitted with different fibre composites CFRP and GFRP	ID 316. OUSLATI AHMED, SMADI HACENE, MIHOUB ZAKARYA, CHEBILA MOURAD, Maintenance impact on the performance of safety instrumented systems
	ID 11. ALLALI AHMED, ALAMI AHMED, BELBACHIR SADIA, B. BOUCHAM BELHADJ, KADOURI KHACEM, Flow of a non-Newtonian fluid into a pump	ID 190. HAFSI Z., KADOUN MANSOUR A., Optimization of backscattered electron (BSE) detector by study of the energy and angular distributions of (BSE) in VP-SEM	ID 112. FOURAR Y-O., BENHASSINE W., SAADI S., DJEBABRA M., Contribution of the systemic approach to OH&S promotion
	ID 412. DJAMAL EDDINE GHERSI, MERIEM AMOURA, KHALED LOUBAR, UMBERTO DESIDERI, Energy and environmental evaluation of the CCHP systems in Algeria	ID 145. SARA LAIB, ZAHREDDINE NAFA, ABDELGHANI MERDAS, Influence of polyester fiber on mechanical performances of semi-granular bituminous concrete 0/14	ID 212. ABDERREZAK BOUZIANE, ABDELKADER HAMMOUDI, Response surface methodology in slope stability analysis





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	Session B 2	Session B 3	Session B 4
Chairs	Pr DEBIEB Farid, Dr Bencheikh Boubaker	Dr Samir Laouedj, Dr BACHENE Mourad	Pr KOUADIK Smain, Dr Badaoui Mohamed
12h50-13h30	ID 323. BENAMARA FATIMA ZOHRA, BOUTAHIR OUSSAMA, FARHI RAMZI, Dynamic stability of anchored retaining walls	ID 423. BERKANE SIAIAH, YASSER CHIKER, MOURAD BACHENE, MOULOUD GUEMANA, Bending behavior of laminated composite plates	ID 221. GUERMITI LAID, BENTEBBA MOHAMED TAHAR, RABEHI RACHID, Development of dune sand and reuse of metal waste for the development of a new building material
	ID 246. ZERROUATI Wafa, SIGA Chahrazed, BELHADJ Abd-Elmouneïm, BENREKIA Mohamed Réda, Radiographic examination of stainless steel welding pipeline	ID 278. HAMD M., ZENASNI R., KHIAT M.A., SANCHEZ F.G., LOPEZ G.C., A simple python code for computing effective properties of 3D representative volume element under periodic boundary conditions	ID 207. SALHI MOHAMED, LI ALEX, GHRICI MOHAMED BLIARD CHRISTOPHE, BOUBEKEUR TOUFIK, Effect of acids and sulphates on the durability of self-compacting concretes
	ID 302. DJAMEL SEBBAR, BOUZID BOUDJEMA, ABDELALI BOUKAOUD, YOUNES CHIBA, Study of the strain effects on Ga _x In _{1-x} As/ Ga _y In _{1-y} As single quantum wells	ID 334. SOUHILA BENDENIA, CHAHRAZED BENDENIA, HANAA DIB, GANIA BESSAHA, SAAD KHADAR, AMINE KHELIFA, Adsorption of CO ₂ onto Mn+X (Mn+= Cr ³⁺ and/or Ni ²⁺) zeolites	ID 137. HADJA ALIA TABTI, NORIA BOUCHIKHI, MEHDI ADJDIR, Synthesis of a Cu-MCM-41 from waste glass and the influence of the copper insertion method on the structure and the texture of this nanomaterial
	ID 340. CHIKER YASSER, SIAIAH BERKANE, BACHENE MOURAD, MOULOUD GUEMANA, Free vibration analysis of laminated functionally graded carbon nano tube reinforced composite plates	ID 336. MILOUD HAMADACHE, MOULI M., BOUHAMOU N., BENOSMAN A.S., DIF F., CHAIB O., Effect of the perlite and natural pozzolan on the corrosion of armed mortars	ID 141. ASMAA RAHMANI, HADJ AIMER, ABDELKRIM HAZZAB, Geotechnical engineering of Ghardaïa loess (Southern Algeria): Comparative study with several parts of the world
	ID 418. YUCEF ETOUMI KH., ZOUAMBIA Y., KREA M., MOULAI-MOSTEFA N., Optimization of continuous bio-sorption of copper using citrus pectin	ID 306. BENNOUI IMED, MAALEM TOUFIK, Contribution of secondary elements on load distribution on a double-girder composite bridge deck by edge-stiffening	ID 208. LEMYA ,HANIFI HACHEMI AMAR, FATIMA ZOHRA ZAQUI, ABDELHAKIM KACI, ABDELOUAHED TOUNSI, Size dependent bending analysis of functionally graded micro beams based on modified couple stress





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Chairs	Dr Aidaoui lakhdar, Dr Mounir ZIRARI	Pr HANINI SALAH, Dr Moussaoui Mustapha	Pr ABUDURA SALAM, Dr Kouider Laroussi
12h50-13h30	ID 16. MENOUAR FELLAH, BENGUEDIAB M., KETTA F.Z., Thermo-mechanical behaviour of plates in insulating materials used in solar panels	ID 134. NOUBEIL GUERMAT, WARDA DARANFED, KAMEL MIROUH, Comparative study of thin films based on ZnO and SnO ₂ deposited by the spray pyrolysis technique	ID 321. KERRIDA ZINEB, MAKHLOUFI ZOUBIR, BEDERINA MADANI, Effect of medapoxy str on the mechanical resistance of alluvionary - dunar sand - based micro - concrete
	ID 132. LADEG SOUFYANE, Experimental study of a hydrodynamic flow through a sand bed	ID 319. MESSAOUDA BELOUADAH, ZINE EL ABIDINE RAHMOUNI, NADIATEBBAL, Study of the combination of marble powder, glass on the compressive strength and the workability of concrete	ID 64. NADHIRA BIOUD, SALAH DAOUD, Directional dependence of Young modulus and thermal properties of Aluminium phosphide
	ID 45. AOUACHRIA Z., BELALMI R., TIGHAZA S., LAHLAHI M., New blade profile of VAWT: Experimental analysis	ID 405. MERZOUGUI MALIKA, MEZAHY FATIMA ZOHRA, Effect of aging time on synthesis of hydroxyapatite by sol- gel route	ID 209. ABDELKARIM KHERFI, HACHEM CHAIB, ABDELOUAHED KRIKER, Thermal study prototypes effected by earth bricks reinforced by date palm fibers: The winter period
	ID 48. HADDAD LOUIZA, AOUACHRIA ZEROUAL, Management and valorization of urban solid waste in landfills	ID 193. BOUKAOU D., CHIBA Y., DEHBAOUI M., GUECHI N., SEBBAR D., Experimental and theoretical calculations of structural, vibrational, electronic and dielectric properties of ninhydrin	ID 220. NABIL HEBBAR, IMÈNE HEBBAR, DJAMEL OUINAS, MOHAMED BOURADA AND RAFIK BOUSSOULA, A model of higher-order displacement for the study of the mechanical behavior plates made of composite materials
	ID 84. MERAH AHMED, KHENFER MOHAMED MOULDI, ZIREGUE AHMED, A real study of pathological case of foundation failure of a residential building: From diagnosis to reinforcement	ID 244. TAHRAOUI HICHEM, BELHADJ ABD-ELMOUNEÏM, HAMITOU CHE ADH'YA-EDDINE, The application of the neural network method for the prediction of sulfate ion (SO ₄) ²⁻ from drinking water in the Médéa region	ID 310. FERKOUS S.A., Optimization of skid resistance of asphalt concrete pavements with the use of vegetable fibers
13h30 – 14h30	Lunch		





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	Session A	Session B	Session C
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14h30 - 14h40	ID 383. BESMA ZEDDAM, FAYÇAL BELKAID, MOHAMMED BENNEKROUF, Integrated production and distribution planning with energy consideration	ID 144. OUSSAMA BENAIMECHE, NADHIR TOUBAL SEGHIR, MEKKI MELLAS, Assessment of date palm fibres reinforcement on mechanical properties of cement mortar	ID 377. YACINE DAILI, ABDELGHANI HARRAG, A Modified power decoupling control strategy based on virtual synchronous generator in distributed generation micro-grid
14h40 - 15h00	ID 392. HOCINE TEBBICHE, BOUTOUDJ MOHAMMED S., Ahmed body drag reduction using continuous blowing through micro-jets	ID 184. LAHDIRI ABDELHAFID, KADRI MOHAMMED, Seismic response of concrete gravity dam with soil structure interaction using isogeometric approach	ID 378. ABDELGHANI HARRAG, YACINE DAILI, Accurate PV/TEG Matlab models
15h00 - 15h20	ID 159. SARRI A., BECHKI D., BOUGUETTAIA H., BOUGHALI S., AL-SAAFI S.N., Simulation-based analysis of the use of PCM and shading devices to improve the thermal comfort in buildings	ID 284. Tabet-Derraz M. IDRISS, ABDELOUAHAB KHELIL, KARIM HAMDAOUI, NADIR BOUMECHRA, Numerical analysis of headed stud connector performance in composite beams	ID 333. KOULOUGHLI S., DJILALI A., GHOMRI L., Analytical modelling of the simple cycle time for an AS/RS with mobile racks
15h20 - 15h40	ID 96. SABRINA BENAÏSSA, BELKACEM ADOUANE, BAALI CHERIF SOMIA, AOUACHRIA ZAROUAL, Combustion characteristics of biogas blended with hydrogen at engine conditions	ID 157. SALAH DJEROUNI, MOUNCEF EDDINE CHARROUF, MAHDI ABDEDAIM, NASSIM DJEDOU, ABDELHAFID OUNIS, Optimization of the seismic response of buildings with hybrid control using Tuned Mass Damper (TMD) and base	ID 371. BOUMEZIRENE THIZIRI, GHOMRI LATEFA, Determination of an analytical model by simulation of the average retrieval rank for multi-deep automated storage / retrieval systems
15h40 – 16h00	ID 292. LAOUID YUCEF ABDELLAH AYOUB, KEZRANE CHEIKH, LASBET YAHIA, Exergy analysis and multi-objective optimization of regenerative organic Rankine cycle for waste heat recovery	ID 238. AMAR KACIMI, GHANIA IKHENAZEN, MADINA KILARDJ, Stability numerical analysis of thin plates under the effect of shear stress using consistent nodal forces	ID 163. SAAD KHADAR, THIZIRI BEN ALI, ABDELLAH KOUZOU AND HANI BENGUESMIA, Speed sensor fault tolerant control scheme for open-end winding five phase induction motor in electric vehicle
16h00 – 16h20	Coffee break		





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	Session A 1	Session B 1	Session C 1
Chairs	Pr Mesleml Farid, Dr Rachid Bouzid	Pr Kamal Mohammedi, Dr Kouider Rahmani	Dr Abdelhamid Iratni, Dr Kouider Laroussi
16h20-17h00	ID 327. KAREF SALAH, AZLAOUI MOHAMED, FODILI MOKHTAR, HAFIFA AHMED, KETTAB AHMED, The reuse of sludge and treated water, between the environmental protection and agriculture promotion	ID 408. SAID GRAIRIA, HOCINE HADIDANE, ADEL SAOUDI, NOUREDINE ARABI, Design and fabrication of Epoxy-SiO2 nanocomposites under control of different silica sand concentrations: morphology and mechanical properties	ID 283. TAKI EDDINE TAOURIRIT, AFAK MEFTAH, NOUREDINE SENGOUGA, Effects of high-k dielectric materials on the electrical performance and reliability of amorphous indium-tin-zinc-oxide thin film transistor (a-ITZO TFT): a numerical modeling
	ID 354. CHOULI YAMINA, MOKHTARI FATIHA, BENHAMOU ABDELLAH, Synthesis and characterization of hybrid materials based on Clay / Chitosan: Antibacterial activity	ID 198. MILOUDI ANHAR, ADJADJ FOUZIA, Contribution to the thermodynamic study of the Si-La system	ID 281. LILA ACHOUR, KARIM YOUNSI, RAM Analysis of ageing aeroderivative gas turbine using bayesian inference
	ID 10. ALLALI AHMED, ALAMI AHMED, BELBACHIR SADIA, B. BOUCHAM BELHADJ, AMINALLAH MILOUD, BENAMARA NABIL, KADOURI KHACEM, Blood flow in an Arterio-venous fistula	ID 416. LEHBARI SAMIHA, BAGHZIM HASSIBA, RAHMANI SAIDA, Modelisation 3D of a pile laterally charged in a soft clay near slopeE	ID 241. BEN MESSAI R., MDOUKI R., Influence of localised multi suction active control on aerodynamic performances of S809 airfoil for horizontal axis wind turbine (HAWT)
	ID 234. MOHAMED ABDI, MERYEM OULDRUISS, ABDELKADER NOUREDDINE, LES of turbulent flow of the non-newtonian fluid: The mean flow quantities	ID 417. HASSIBA BAGHZIM, SAMIHA LAHBARI, RAHMANI SAIDA, Analyze of stability of the earth dam by using the finite element method	ID 353. SADI YASSIN, MESRI MOKHTARIA, BENMOUIZA KHALIL, Analysis of frequency splitting phenomenon of wireless power transfer for lateral misalignment coils
	ID 171. MOKHTARI FATIMA ZOHRA, MOKHTARI ABD ERAHMAN M., Calculation of the thermodynamic parameters of the H2O-LiBr couple and application to absorption refrigeration machines	ID 307. BENGUETTACHE KHADRA, GOUAL IDRIS, GUEDDOUDA MOHAMMED KAMEL, Experimental study on tuff blocks stabilized by combination of cement and lime	ID 211. BELGACEM HERISSI, DJALIL BOUDJEHEM, MOHAMED ROUAMEL, Improving efficiency of photovoltaic system by fractional-order PID controller using genetic algorithm (GA)





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Chairs	Pr Yazid Derouiche, Dr Mouinir ALLICHE	Pr Abderrazak BOUZID, Dr Djamel Halimi	Dr Abd-Elmouneïm B., Dr Benhmed Baized
16h20-17h00	ID 328. BOUZENNADA TAREK, TRIKI ISMAIL, GOUCEM MAHDI, Forced and free convection importance in solidification phenomena and the Influence of cooling rate during the melting flow	ID 271. HOUSAM EDDINE KHIQUANI, ABDELKADER DRAM, BELOUNAR LAMINE, Analysis of circular structure using sector elements based on the strain approach	ID 320. CHENINI L., AISSAT A., VILCOT J.P., Optical properties of GaN _x As _{1-x-y} Sb _y /GaAs structure: BAC calculations
	ID 128. SABRA HEMIDOUCHE, LOUBNA NOURI, AMEL BOUDJEMAA, FARIDA KAOUAH ZAHRA SADAOUI, KHALDOUN BACHARI, pH effect on the adsorption / photocatalytic degradation under direct sunlight irradiation as renewable energy of basic bleu 41 using a xerogel composite beads (CaAlg/TiO ₂)	ID 297. ABDELKADER DRAM, HOUSAM EDDINE KHIQUANI, ABDELAZIZ BROUTHEN, SADOK BENMEBAREK, Earthquake load attenuation use of EPS geofoam compressible inclusion in earth retaining structures	ID 315. NABIL BENHADDA, DAHMANE HACHI, BACHIR HELIFA, IBN KHALDOUN LEFKAIER, BACHIR ABDELHADI, Characterization of laminate carbon fibers materials using a new multi - coils circular eddy current sensor
	ID 403. GHALEM ABDELKADER, TAHAR ABASE MILOUD, SAHLI ABDELKADER, Hydrodynamic pressure distribution in plain journal bearing	ID 311. TALEB SOUMIA, BENAMARA DALILA, HADJI BENSALAH, BOUDINA TOUNSIA, Possibility of using recycled aggregates in the manufacture of new concretes	ID 199. SAHLA MERIEM, SAIDI HAYAT, Effects of transverse shear strain on buckling response of laminated composite beams
	ID 97. NEZHA GUEFFAF, BAHIA REBEHI, KHALED BOUMCHEDDA, Study of the thermal conductivity of stabilized earth block (BTS) based on recycled clay sludge	ID 318. AMMI SOFIANE, AISSAT A., Improvement of I-V characteristics for (InP/InGaAs/InAlAs) III-V MOSFET structure	ID 148. ABDELJALIL BERREDANE, MOHAMMED AMINE ALLAL, NESRINE EL HOUARI, Interaction between two tunnels constructed at low depths : Case of a frictional and coherent soil
	ID 39. HADJIRA MAOUZ, LATIFA KHAOUANE, SALAH HANINI, YAMINA AMMI, MAAMAR LAIDI, Thermal aging of ethylene propylene diene monomer modeling concentration of carbonyl bay artificial neural network	ID 236. IMAD EDDINE DEBBABI, WALID CHAABANI, MOHAMED SADDEK REMADNA, Effect of geotextile reinforcement on embankment	ID 314. RETERI KHADIDJA, MEGNOUNIF ABDELLATIF, Seismic response control between adjacent building coupled by a passive system





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Chairs	Dr Cheikh KEZRANE, Dr Mohamed TEGGAR	Dr Djamel Halimi, Dr Rachid Belhadef	Dr Abdelhamid Iratni, Dr Kouider Laroussi
16h20-17h00	ID 116. MOHAMED ABDI, KHALED CHAIB, AHMED KADARI, ABDEFETTAH MENOUEUR, NORD-EDDINE SAD CHEMLOUL, A Numerical investigation of turbulent flow in a wavy channel	ID 156. NADHIRA BIOUS, SALAH DAOUD, Theoretical investigation of acoustic wave speeds in cul semiconducting compound	ID 66. IBRAHIM CHOUIDIRA, DJALALEDDINEKHODJA, Analysis stator current for detection broken bar based on Fast Fourier Transformation (FFT)
	ID 03. ALAMI AHMED, BOUCHAM B. , ALLALI A., BELBACHIR S., BENZAAMA M.H., BOUCHIKHI A.S., MAKHLOUF M., Experimental study for the investigation of thermal comfort and controlled habitat	ID 30. DALILA IKERMOUD, NADJIB DROUCHE, SALAH AOUDJ, TiO ₂ and ZnO Photo-catalysis of Cr(VI) from Photovoltaic Waste-Water	ID 229. RACHID BELHADE, AHMED HAFIFA, MOULOUD GUEMANA, Improvement of the maintenance actions of an industrial pump based on its reliability
	ID 295. WALID NESSAB, HENDA KAHALERRAS, BRAHIM FERSADOU, Ferrohydrodynamics effect on mixed convection of a ferrofluid jet flow confined in a vertical channel under the influence of magnetic sources	ID 177. LAIB A., LAOUAMI N, ZOURGUI N.H., BAKHTI R., Soil heterogeneity effects on the conditionally simulated spatial variable motions and the nonlinear response of highway bridge	ID 161. BEKRAR LYAS, OMAR BOUHALI, YAICHI M., SAAD KHADAR, Investigation of six-phase multilevel SVM algorithm for multi-machine drive system powered by a single voltage source inverter
	ID 119. BILAL BOUDJENIBA, SALAH LAOUAR, Natural convection of Al ₂ O ₃ -Water nano-fluid in a square cavity: Comparison of the analytical model and experimental correlations	ID 255. RACHID BAKHTI, BENAHEM BAIZID, KAMAL AIT TAHAR, LAIB ABDELGHANI, Object oriented programming (OOP) applied to the finite element method using VB.NET programming language	ID 214. RABAB BOUKLI-HACENE, FETHI BOUDAHRI, HICHEM BETAOUAF, Optimal design of pharmaceutical supply chain
	ID 215. CHAHRAZED BENDENIA, AMINA.BENALLOU, HANAA MERAD-DIB, SAAD KHADAR, SOUHILA BENDENIA, BAGHDAD HADRI, Comparison and verification of the electrical properties of an InxGa1-xN-based solar cell	ID 231. SOLTANE MOHAMED ABDELALI, MIMOUNE MOSTEFA, GUETTICHE ABDELHEQ, Seismic vulnerability assessment of the constructions at Skikda city	ID 32. BOKHTACHE A. AISSA, HEMICI K., KESSAÏSSIA F.Z., ZEGAOUÏ A., TOUALBIA A., BOUCHRIT M.S., A Design of a high frequency power supply (Electronic ballast based on multi-cellular 4-Cell converter) to supply a UVC Lamp for water sterilization





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08 h 30 – 09h 10	<p>Plenary Session 4 Water Governance Dr. Nidal Salim Global Institute of Water Environment and Health, Geneva, Switzerland Chairs : Prof. Abudura Salam, Prof. Abderrazak BOUZID</p>
09 h 10 – 09h 50	<p>Plenary Session 4 CODES AND SOFTWARES FOR SOLAR POWER PLANTS DESIGN AND PERFORMANCES ASSESSMENT Prof Kamal MOHAMMEDI Research Unit, Modelling, Simulation and Optimization of Alternative and Sustainable Systems, UMBB University, Boumerdès, Algeria Chairs : Prof. Kamal GUASMI, Dr Abdelhamid Iratni</p>
10 h 00 – 10 h 30	Coffee break





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	Session A	Session B 1	Session C
Chairs	Pr Mohammed MAKHLOUF, Dr Yahia LASBET	Dr Lazhar HERICHE, Dr Mouinir ALLICHE	Pr Abdelhalim Tlemçani, Dr Lakhdar BESSISSA
10h00 - 10h20	ID 293. HORIMEK ABDERRAHMANE, NOUREDDINE BRAHIM, BENKHCIBA ABDELATAH, AIT-MESSAOUDENE NOUEREDDINE, Non-Newtonian power-law fluid natural convection inside an inclined square enclosure	ID 115. LAZHAR HARICHE, MOHAMED BADAOU, BAIZID BENAHMED, Non-linear finite element modelling using joint elements of epoxy bonded joints between steel plates and concrete	ID 425. SID ALI AISSAT, AHMED HAFIFA, MOURAD BACHENE, ABUDURA SALAM Identification of a two-shaft gas turbine using stable multi model approach with optimal parametric estimation
10h20 - 10h40	ID 196. ANTAR TAHIRI, MOSTAFA MOUSSAOUI, GUERRAICHE KHELIFA, A numerical study of a non-Newtonian nanofluid flowing through a circular duct: Under convective boundary condition	ID 242. KIRED MOHAMMED RIAD, HADJI AICHA, HACHI BRAHIM ELKHALIL, HACHI DAHMANE, MOUSSAOUI MUSTAFA, Modeling of cracked structures with cohesive properties	ID 426. NADJI HADROUG, AHMED HAFIFA, MOULOUD GUEMANA, Reliability modelling using adaptive neural network with fuzzy inference system: Gas turbine application
10h40 - 11h00	ID 419. SAIDOUNE F., BOUAZIZ M.N., Effect of wall conduction, Prandtl and Richardson numbers on a Magneto-hydrodynamic (MHD) flow and heat transfer along a vertical cylinder	ID 152. RABAH MOUSSA, AHMED ABDICHE, RABAH KHENATA, SAAD BIN OMRAN, First principal calculations of the structural electronic and optical properties of the zinc-blende $Al_{1-x}B_xAs$ ternary alloys	ID 243. AHMED BELKHIRI, SAID AOUGHELLANET, MOHAMMED BELKHIRI, Real-time FPGA implementation of IRFOC control for induction motor drive
11h00 - 11h20	ID 326. KAREF SALAH, AZLAOUI MOHAMED, FODILI MOKHTAR, HAFIFA AHMED, KETTAB AHMED, The influence of the performance indicators identified in wastewater treatment plant, on the management of sanitation and protection of the environment	ID 329. BENKHECHIBA ABDELFAHAT ELHADJ, HACHI BRAHIM ELKHALIL, KIRED MOHAMMED RIAD, HACHI DAHMANE, HABOUSSI MOHAMED, Modelling of three-dimensional structures by XFEM/Level-set(s) containing voids transforming to cracks	ID 428. HABIB CHAOUKI BEN DJOUDI, AHMED HAFIFA, MOULOUD GUEMANA, DALILA DJOUDI, Fuzzy control of a wind turbine conversion chain using a PMSM method
11h20 - 11h40	/	ID 269. RAACH YUCEF, DEROUICHE YAZID, MESSELMY FARID, Impact of the type of interfaces on the behavior	/





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	Session B 2	Session B 3	Session B 4
Chairs	Pr Zouggar Kamel, Dr OMRANE M.	Pr Yazid Derouiche, Dr Abd-Elmouneïm Belhadj	Pr MOULAI MOSTEFA N., Dr Samir Laouedj
10h00 - 10h20	ID 322. KHALED MANSOURI, LEILA SRITI, Building envelope materials as a passive strategy to ensure indoor thermal comfort in a hot and dry climate	ID 162. AROUSSI H., HAMDACHE F., RIANE H., BAHLOULI S., MOKHFI H., CHELIL N., First principle calculations of ternary alloy $In_{0.25}Ga_{0.75}N$	ID 261. AMEL. HANICHET, ABDELKADER MAHI, The study of pozzolanic concrete Characteristics under rise of temperature
10h20 - 10h40	ID 127. TAMIR AMARI, MOHAMED NABIL HOUHOU, Three-dimensional numerical analysis of the effect of tunnel construction on nearby pile foundations	ID 385. MOKHTAR KHALDI, MOHAMED MOKHTAR BOUZIANE, ALEXANDRE VIVET, HABIBA BOUGHERARA, PERE MUTJÉ, Improved mechanical properties of alfa fibers / polypropylene composites partially biosourced: Effect of maleic anhydrid	ID 136. HASSINA LAOUAMRI, SALAH MESSAST, Numerical study of the ultimate pullout capacity of vertical anchor plate
10h40 - 11h00	ID 122. SOUHIA BOUADJADJA, ABDELOUAHAB TATI AND AMIRA SADGUI, Nonlinear bending analysis of composite cantilever beams	ID 266. HABIBA BOUGHERARA, DARIUSH FIROUZI, NANCY HASSANEIN, ASMA AMLEH, Interlocked UHMWPE Biomaterial with advanced antimicrobial capabilities for biomedical applications	ID 31. ATHAMNIA BRAHIM, OUNIS ABDELHAFID, Design procedure of base isolated buildings according to Algerian seismic code based on USA seismic code
11h00 - 11h20	ID 71. DARDA BENCHEIKH, WAHIBA MOUSSI, MADANI BEDERINA, Architectural heritage: A sustainable development model	ID 256. FADILA BENAYOUN, SOUHILA REHAB BEKKOUCHE, DJAMALDDINE BOUMEZERANE, Reinforcement of soil cuttings by nailing	ID 80. ABDELBAKI CHIKH, ABDELOUAHED TOUNSI, Buckling analysis of functionally graded sandwich plates using non-polynomial theory
11h20 - 11h40	ID 298. AYADI SOUAD, HADJI ALI, Wear behavior of a modified high - manganese steel	ID 62. SALAH FETHI, BOUCHAM BELHADJ, BENZAIK ABDELNOUR, TOUNSI ABDELOUAHED, Buckling analysis of FGM sandwiches plates	ID 372. ALICHE AMAR, IDER OURDIA, Study of a steel storage tank under sismic solicitation: Methodology of analysis based on the Algerian parasismic regulation (RPA)





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Chairs	Dr Boukhalkhal Lamine, Dr Teggat Mohamed	Dr Boubaker Bencheikh, Dr Mounir ALLICHE	Pr Derouiche Yazid, Dr Djamel Halimi
12h00-13h00	ID 263. TAHRAOUI HICHEM, BELHADJ ABD-ELMOUNEÏM, BOUHEDDA MOUNIR, HAMITOUCHE ADHYA-EDDINE, Artificial neural network model for the prediction of the bicarbonate amount in drinking water	ID 83. BOULANOVAR AZZOUI, RATIBA MITICHE KETTAB, Using Sahara's dune sand for the construction of double-layered paving systems for roads	ID 430. TAREK HADJI, SALIM GUETTALA, AHMED ATTIA, TAHA HOCINE DOUARA, Effect of soil structure inertial interaction on the nonlinear dynamic behaviour of reinforced concrete frame structure
	ID 61. KHELIFA A., TOUAFEK K., BOUTINA L., BAISSI M.T., Effect of a passive fan on the hybrid solar collector PV/T cooling	ID 290. DIF FODIL, MOULI MOHAMED, ZAITRI REBIH, Evaluation of reinforcing steel of concretes containing a natural pozzolan and perlite immersed in aggressive environments	ID 431. ALLOUT NAAS, MOHAMED KADRI, ABDELLAOUI MEROUANE, BOUDINA TOUNSIA, Numerical simulation of slope stability in earth dams during an earthquake
	ID 282. BENCHERIF KARIMA, BOUTEKRABT AMMAR, DALPÉ YOLANDE, LOUNÉS HADJ SAHRAOUI ANISSA, Arbuscular mycorrhizal fungi as tools for durability, recycling and sustainable environment	ID 420. DJELOUD H., MOUSSAOUI M., HACHI K., GUERRAICHE K., Analysis of isotropic structures 3D by FEM	ID 265. OUM KELTOUM MALLEM, FOUAD ZOUAI, FATMA ZOHRA BENABID, DJAFER BENACHOUR, Effect of treatment with stearic acid on the properties of LDPE/Al ₂ O ₃ composites
	ID 153. SAFIDDINE SALIM, SOUALHI HAMZA, DEBIEB FARID, KADRI EL-HADJ, Use of a rheometer with vane geometry to evaluate the viscosity and yield stress of cement mortar based on crushed sand	ID 421. SOUAD ZERGOT, MUSTAFA MOUSSAOUI, BRAHIM KHALIL HACHI, MOHAMED LATRACHE, Fatigue analysis of notched mechanicals components in rotating bending	ID 331. ZARGA DJALOUL, FOUAD BOURADA, ABDELOUAHED TOUNSI, ABDERAHMAN YOUNSI, ABDELKADER BENACHOUR, Nonlinear thermo mechanical bending analysis of functionally graded sandwich plates using a new higher order shear deformation theory
	ID 133. ABAIDI A., MADANI B., Influence of metal foam configurations inside methanol steam reforming reactor	ID 414. RABEHI M., BEKHITI M., TROUZINE H., Effect of waste tyre rubber fibers on UCS and ductility of stabilized clayey soil	ID 139. DAOUDI NOUR EL HOUDA, HARKATI ELHADDI, MADJOUR HALIM, Dynamic analysis of a honeycomb sandwich panel with different cores





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	Session C 1	Session C 2	Session C 3
Chairs	Dr Abdelhamid Iratni, Dr Kouider Laroussi	Pr Abdelhalim Tlemçani, Dr Djamel Halimi	Dr Ameer Kaddouri, Dr Lakhdar Bessissa
12h00-13h00	ID 325. GANOUNE AHMED, BOUMADIENE LARBI, MEZOUAR ABDELKADER, Integrating and the reactive power management of a hybrid wind farm in an electrical grid	ID 249. FETHIA HAMIDIA, AMEL ABBADI, AHMED MEDJBER, ABDELKADER MORSLI, High performance pumping system	ID 197. MERAH M., BAGHLI L., BOUMEDIENE A., Study of an interleaved boost converter for PV systems
	ID 102. KHOULOU HADJADJ, SMAÏL CHIHI, MOHAMED BOUOUDINA, Quantitative phase analysis for quartz and gypsum from X-Ray powder diffraction data using the rietveld method	ID 402. NOUREDDINE KHENFAR, ABDELHAFID SEMMAH, SAMIRA DAHMANI, Implementation of the fuzzy band hysteresis control applied to a shunt active power filter under unbalanced and distorted voltage	ID 357. LARBI MESSAOUDA, ROUINI ABDELGHANI, LARBI SAMIRA, MESSALI ZOUBEIDA, Implementation and evaluation of distance regularization (Drlse) DRLSE segmentation method for medical images
	ID 114. YOUCEF MAHROUG, MOULOUD GUEMANA, AHMED HAFIFA, Identification of gas turbine dynamic behaviour using ARMAX model	ID 237. SAMIRA DAHMANI, ABDELHAFID SEMMAH, NOUREDDINE KHENFAR, MOHAMED KADEM, Comparative study of PI optimized by genetic algorithm and fuzzy controller for DC voltage control based on DPC for a three-phase PWM rectifier	ID 406. HAMADI SAFI ALLAH, MOHAMED MONIR REZAOUI, AHMED HAFIFA, AMEUR MILOUD KADDOURI, Modeling and simulation of photovoltaic solar system array with mismatch and shading fault
	ID 436. BACHIR LASSALI, AHMED HAFIFA, MOULOUD GUEMANA AND KOUZOU ABDALLAH, Control of a photovoltaic system installed in electricity production unit : Power generation system protection	ID 427. IMAD EDDINE KAID, AHMED HAFIFA, MOULOUD GUEMANA, ABUDURA SALAM, Improving energy efficiency in a wind energy system based on an optimization process	ID 433. Larbi Brahimi, Ben rahmoune Mohamed, Mouloud Guemana, Mourad Bachene, Analysis of the reliability of the DR990 gas turbine using the recursive least square method
	ID 439. TOUAL BELGACEM, MOKRANI LAKHDAR, KOUZOU ABDELLAH AND MACHMOUM MOHAMED, Faults diagnosis of a DFIG wind turbine based on a principal component analysis technique	ID 262. BOUKHALFA M., KHOUDIRI A., BENAÏSSA A., SELLAH M., MOKHTAR A., Comparative study of three control algorithms MPPT for a photovoltaic system	ID 264. MERAHI KAMEL, AHMED HAFIFA, ABUDURA SALAM, Functional diagnosis of nonlinear systems based on multi-models state estimation





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Chairs	Dr Teggat Mohamed, Dr Aidaoui Iakhdar	Pr Kamal Mohammedi, Dr Kouider Rahmani	Pr Kamal GUASMI, Dr Mounir BOUHEDDA
12h00-13h00	ID 375. MOHAMED AZLAOUI, SALAH KAREF, RACHID ZEGAIT, IMED EDDINE NEZLI, Contribution to the Hydrochemical Study of the Plain of Ain Ouessera and its Environmental Impact	ID 113. DEMDOUM ABDELLAH, GUEDDOUDA M.K., GOUAL I., SOULI H., ANLAUF R., Physicochemical study on a contaminated bentonite- sandy soil mixture	ID 100. HERIZI ABDELGHAFOR, SMANI HOUSSAM EDDINE, MAHMOUDI RIDHA, BOUGUERRA ABDERRAHMEN, ZEGHLACHE SAMIR, ROUABHI RIYADH, Speed control of a doubly-fed induction machine using fuzzy controller
	ID 394. NEKAG EL-AMRIA, HORIMEK ABDERRAHMANE, Cooling by natural convection of a hot source placed at the bottom of a square cavity	ID 251. NIA SABRINA, KHENCHOUL SALAH, LEFKAIER IBEN KHALDOUN, Investigation of Structural, Magnetic, Electronic, and Elastic Properties of Full-Heusler Compounds (Z=V; Nb)	ID 435. BENRABEH DJAIDIR, AHMED HAFIFA, MOULOUD GUEMANA AND KOUZOU ABDALLAH, Diagnosis of bearing vibration in gas turbine based on spectral analysis techniques
	ID 117. MESSAOUDA GATCHA, FARID MESSELMY, SLAMI SAADI, Introducing the organic printed solar cells solution	ID 301. ELBAHI FATMA ZAHRA, BENCHEIKH BOUBAKER, Elastoplastic model with a single hardening for the behavior of sand	ID 286. MORSLI A., AÏT CHEIKH M.S., ABBADI A., HAMIDIA F., TLEMÇANI A., BOUCHERIT M.S., Comparative study between a classical and an intelligent methods of an MPPT controller for the photovoltaic system
	ID 332. BOUABDELLI MOHAMED WAHID, ROGTI FATIHA, MAACHE MOSTEFA, AIDI BACHIR, Simulation of CIGS solar cell using Silvaco-Atlas	/	ID 384. DJAMELEDDINE DJAFAR, SAAD BELHAMDI, Comparative analysis between the rotor flux oriented control and sliding mode control of a induction motor with broken rotor bars
	ID 92. SELMANI F., CHERIFI H., HANINI S., KHALLADI R., Elimination of dyes from an aqueous solution onto loofa carbon	/	ID 386. FETHIA HAMIDIA, AMEL ABBADI ABDELKADER MORSLI, AHMED MEDJBER, Dual Star IM supplied by wind generator
13h30 – 14h30	Lunch		





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	Session A 2	Session B 2	Session C 5
Chairs	Dr Kezrane Cheikh, Dr Mohamed Tegggar	Dr Mouloud Guemana, Dr Moussaoui Mustapha	Pr Abdellah Kouzou, Dr HENINI N.
14h30 - 14h40	ID 259. IBRIR ABDELLAH, KERCHICH YACINE, HADIDI NOUREDDINE, REBHI REDHA, Modeling of NOx dispersion in a canyon street in medea	ID 253. GHRIEB ABDERRAHMANE, ABADOU YACINE, ROSA BUSTAMANTE, Valorization of clay brick waste in the manufacture of dune sand mortars	ID 373. M'HAMDI BENALIA, BENAÏSSA TAHER, Grey wolf based multi-objective power flow optimization in the presence of solar and wind generators
14h40 - 15h00	ID 332. BOUABDELLI MOHAMED WAHID, ROGTI FATIHA, MAACHE MOSTEFA, AIDI BACHIR, Simulation of CIGS solar cell using Silvaco-Atlas	ID 280. LAKHDAR BESSISSA, LARBI BOUKEZZI, DJILLALI MAHI, Diagnosis of the XLPE insulation used in HV insulation power cables based on MLP artificial neural networks	ID 204. ROUINI ABDELGHANI, LARBI MESSAOUDA, AMEUR AISSA, Finite volume method modelling of electric field of solid insulating materials in the presence of barrier
15h00 - 15h20	/	ID 118. ABDELHAKEM ABDELHAFID, HACHANI LAKHDAR, ZAIDAT KADER, Experimental investigation of Sn-10 wt.%Pb alloy with the application of temperature gradient	ID 348. SELLAH M., REZAOUI M.M., KOUZOU A., BOUKHALFA M., OUANOUI A., Torque ripple reduction of DSIM by DTC based artificial neural network
15h20 - 15h40	/	ID 29. FERIEL MEKKI, MOHAMED MEKSAOUINE, Application of the theory of limit analysis for the study of the behavior of ground anchor in homogeneous soil	ID 422. KOUIDER LAROUCI, TAHAR BENAÏSSA, MOHAMED DJEMMAI, Development of a fuzzy supervisor applied to the control of an electric actuator
15h40 - 16h00	/	ID 22. BEKHEDDA AMINE, BOUSMAHA YOUSRA, BOUCHERBA MOHAMMED, MERBOUH M'HAMMED, Behavior of asphalt at high temperature service with introduction of plastic waste	ID 424. HAKIM BAGUA, AHMED HAFIFA, MOULOUD GUEMANA, Stabilization and control of a reduced linear MIMO gas turbine model
16h00 - 16h20	Coffee break		





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Chairs	Dr Mouloud Guemana, Dr Moussaoui Mustapha	Pr Omar Mansour, Dr Rachid Belhadef	Dr Abdelrezak GACEMI, Dr A. Iratni
16h20-17h00	ID 46. Merdaci Slimane, Hadj Mostefa Adda, Belghoul Hakima, Hellal Hadjira, Boutaleb Sabrina, Static analysis of porous functionally graded plates (FG) using refined order shears deformation theory	ID 376. ABDELILLAH BENAHMED, BOUAZZA FAHSI, ABDNOUR BENZAIK MOHAMED ZIDOUR, HOUARI HEIRECHE, ABDELKADER AZAIZ, Analysis of the free vibration of a nano-beam in materials gradient properties with porosities	ID 432. MEROUANE ALAOUI, AHMED HAFIFA, MOULOU GUEMANA, Vibration detection and localization using spectral analysis to the contribution in preventive maintenance: TITAN 130 Solar turbines case study
	ID 398. BOUHADRA A., MENASRIA A., TOUNSI A., BENOUCHEF S., ADDA BEDIA E.A., Bending and free vibration analysis of FG plate using an improved HSDT	ID 401. MAHI AHMED, MEGHABAR RACHID, BELARBI EL-HABIB, AMMARI ABDELKADER, Nanocomposite synthesis and characterization of thiophene -N phenyl succinimide semiconductor catalyzed by organophilic maghnite	ID 379. BELGACEM MOUSSA, KHATIR MOHAMED, DJEHAF MOHAMMED ABDELJALIL, ZIDI SID AHMED, Dynamic performance of multi - terminal VSC HVDC Systems with master slave voltage control
	ID 155. KAMEL ZOUGGAR, GUERRAÏCHE KHELIFA, KHERFI ABDELHAK, RABOUH MOSTAPHA, ANTAR TAHIRI, Axisymmetric formulation of strain based rectangular finite elements	ID 404. RAHALI BACHIR, AISSA MAMOUNE SIDI MOHAMMED, TROUZINE HABIB, Artificial neural networks approach for prediction of modulus of elasticity: Case of rubberized concrete	ID 257. ROUINI ABDELGHANI, HADJADJ ABDECHAFIK, LARBI MESSAOUDA, Modelling of air micro cavities on electrical field distribution in high voltage cable
	ID 130. SAID HICHAM BOUKHALKHAL, NACER A.T. IHADDOUDÈNE, LUIS F. COSTA NEVES, Effect of concrete filling on the bending behaviour of end plate I-beams to tubular columns connections	ID 285. RIHIA CHAHER, HEBHOUB HOURIA, The effect of reusing marble waste in the lightweight sand concrete	ID 429. NOUAR HACHI, ABDELLAH KOUZOU, AHMED HAFIFA, AHMED CHAIBET, Modelling and simulation of five-phase inveter system
	ID 233. BENKHEIRA A., BELHOUARI M., Stress distribution in the periodontal system and dental implant under static and dynamic stress	ID 407. SACI DAHMANI, ABDESSALEM MKHARMECHE, ABDELOUAHED KRIKER, Study of cement with mineral additions in dry zones	ID 124. IMÈNE HEBBAR, DJAMEL OUIINAS, AKRAM HEBBAR, Buckling effect on the mechanical behavior of the pipeline





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Chairs	Pr Abdura Salam, Dr HENINI N.	Pr Abdura Salam, Dr HENINI N.	Pr Kouzou A., Dr Mounir BOUHEDDA
16h20-17h00	ID 347. HAMZA LOUALBIA, MYRIAM DUC, ABDELLAH DEMDOUM, SADOK FEIA, Experimental investigation of calcareous-crust curing in Algeria	ID 164. SAAD KHADAR, THIZIRI BEN ALI, ABDELLAH KOUZOU, HANI BENGUESMIA, BEKRAR LYAS, A robust field oriented control of dual stator induction machine using load torque estimation under low speed condition	<p>WORKSHOP On</p> <p>Control and Applications of Multi-phase Machines</p> <p>Dr Jaroslaw Guzinski</p>
	ID 202. TOUFIK TAYEB NAAS, YAHIA LASBET, Thermal performance of three dimensional mixing flow in chaotic geometry with viscous rheological effects	ID 337. SACI ABDELMOUMEN, CHERROUN LAKHMISSI, MANSOUR OMAR, AHMED HAFIFA, Modeling and control of a wind turbine system based on double fed induction generator controlled by rotor side converter with an excitation	
	ID 131. KRIBY SALIHA, ANNOUN MOHAMED, Turbulent forced convection heat transfer of nano fluids in a circular tube	ID 434. BEN RAHMOUNE MOHAMED, AHMED HAFIFA, MOULOUD GUEMANA, Gas turbine GE MS 3002 Monitoring based on a dynamic nonlinear autoregressive with external exogenous input approach	
	ID 437. Gatcha Aicha, Examples of mathematical applications in Environmental Sciences	ID 225. NAAS DJEDDAOUI, LARBI BOUKEZZI, LAKHDAR BESSISSA, Prediction of short circuit current under QUV aging of organic solar cells using nonlinear regression	
	438. Abdelkader Rouibah, Djamel BENAOUZ, Kouider RAHMANI, Influence of performance parameters on the choice of tower solar power plants : Real Case Study in Algeria	ID 294. RADHWAN BOUFELLOUH, FAYÇAL BELKAID, Minimizing peak power load in flowshop scheduling under unavailability constraints	





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17h 00

Closing Ceremony

