

INTERNATIONAL CONGRESS

SUSTAINABLE BUILDINGS AND CITIES

May 11th to 12th 2023

PROGRAM

11/05/2023

OPENING CEREMONY (Salle de Conférence Prof. Rachid Yazami UPF)

09:30-10:30

Welcome speeches:

Moderators: Prof. Mariam EL HIRI & Prof. Ismail LOTFI

Prof. Mohammed OUZZANI JAMIL: General Chair of BVD'23

Prof Mohammed Aziz LAHLOU : Rector of Private University of Fes

Prof. Mustapha IJAALI: Rector of Sidi Mohamed Ben Abdellah University

Prof. Hassan SAHBI: Rector of Moulay Ismail University

Official speeche :

Prof. Awatif HAYAR : Ministre de la Solidarité, de l'Insertion sociale et de la Famille

Experte dans le domaine des télécommunications vertes et smart cities

10:30-11:00

PLENARY LECTURE 1:

Speaker: Prof. Rachid YAZAMI

Title: *Lithium ion batteries: status, perspectives and applications*

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	Chairman: Prof. Sanae Faquir
11:00-11:15	Coffee Break
11:30-12:00	PLENARY LECTURE 2:
	Speaker: Prof. Abdelilah BENYOUSSEF
	Title: <i>Materials and nanomaterials for green Hydrogen production and storage</i>
	Chairman: Prof. Dr. Ahaitouf
12:15-12:45	PLENARY LECTURE 3:
	Speaker: Prof. Belkhir HAMMOUTI
	Title: <i>Evolution of OIC scientific production last decade and Visibility</i>
	Chairman: Prof. N. Essbai
12:45-14:30	LUNCH
14:40-15:10	Online PLENARY LECTURE 1:
	Speaker: Prof. Ahmed ELNGAR
	Title: <i>Artificial Intelligence and Energy Technologies for smart Sustainable cities</i>
	Chairman: Prof. Anass El Mansouri
15:10-15.40	Online PLENARY LECTURE 2:
	Speaker: Prof. Jauad EL KHARRAZ
	Title: <i>Towards Energy Efficient Buildings in the Mediterranean.</i>
	Chairman: Prof. Mhamed Sayyouri
15:40-15.50	Coffee Break

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FSI/Salle A13

Oral Session I: Energy Efficiency and renewable energies

15:50-18:30 11.05.2023	Chair	Prof. El Khattabi Mehd & Prof.Omar Diouri
	Authors	Titles
	Mouna Abarkan, Abdelillah Byou, Zineb Amraoui and Mustapha Abarkan.	The control of a DC Micro-grid connected to the photovoltaic system, battery and building.
	Meriem Megrini, Ahmed Gaga and Youness Mehdaoui.	Enhancement of field-oriented control using the fuzzy logic controller for PMSM-based PV solar power energy
	Khaoula Boumais and Fayçal Messaoudi.	Self-consumption of renewable electricity for industry and ML-based forecasting methods: A Moroccan Legal Framework
	Amal Zouhri, Mustafa Ouarh and Mostafa El Mallahi.	MPPT algorithm optimization for photovoltaic systems with fast Dynamic and Steady-State Response under variable solar irradiance conditions
	Ouissale Elansari and Hicham Jamouli.	Optimization of energy via fuzzy logic and prediction of occupancy
	Mohamed Chouiekh, Hicham Karmouni, Amine Lilane, Mohammed Ouazzani Jamil, Qjidaa Hassan, Mhamed Sayyouri, Karim Benkirane and Mohamed Abid.	Energy in Morocco: Consumption Evolution and Renewable Solutions
	Rabya Aqel, Lahcen Mifdal, El Hanafi Arjda, Mustapha Elyaqouti, Said Kririm, El Fatmi Daoudi, Dris Ben Hmamou, Driss Saadaoui, Souad Lidaighbi and Abdeljabar Aboukassim.	An Optimal Preventive Maintenance Policy for a Solar Photo-voltaic System
	Abderrahim Zahri, Mounir Ouremchi, Ismail Boumedra, Abdelamin Diani, Mohammed Ouazzani Jamil and Hassan Qjidaa.	Efficient Design of Transformer-less Grid Connected PV Inverters for Single-Phase Photovoltaic Systems
	Yassine Anigrou, Mohammed Zouini and Mohamed El Khlifi	Treatment of grey water by constructed wetland solution with underground flow for public bath in Fez

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FSI/Salle A14

Oral Session 2: Battery modeling and simulation

15:50-18:30
11.05.2023

Chair

Prof.Naoual Boukil & Prof.Imane Halkhams

Authors

Titles

Ismail Boumedra, Abdelamin Diani, Abderrahim Zahri, Mohammed Jamil Ouazzani and Hassan Qjidaa.

Smart Charging Li-ion Batteries with a combination of CC/CV and PCM protocols

Youness Hakam, Ahmed Gaga and Benachir El Haddadi.

Electric Vehicle Charger V2G, G2V and V4G based on PID con- 2 troller

Jawhara El Hmidi, Anass Mansouri and Ali Ahaitouf.

Modelling and simulation of an efficient on board charger for electric vehicles

Saad El Fallah, Jaouad Kharbach, Oumayma Lehman, Abdellah Rezzouk and Mohammed Ouazzani Jamil.

Lithium-ion battery state of charge estimation using improved deep recurrent neural network algorithms: simulation results.

Oumayma Lehman, Jaouad Kharbach, Saad El Fallah, Abdellah Rezzouk and Mohammed Ouazzani Jamil.

A Hybrid Approach of Unscented Kalman Filter and Machine Learning for Lithium-Ion Battery State of Charge Estimation

Abdelamin Diani, Ismail Boumedra, Abderrahim Zahri, Mohammed Jamil Ouazzani and Hassan Qjidaa.

Proposed embedded control of a dual input Buck-boost charger with Integrated CC/CV MPPT mode for power density optimization.

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CEDOC UPF/AMPHI 1

Oral Session 3: Sustainable buildings and environnement

15:50-18:30 11.05.2023	Chair	Prof.Harchli Fidae & Prof.Youssef Rachidi
	Authors	Titles
	Mohammed Zouini, El Mehdi El Khattabi, Yassine Anigrou, Abderrahim Ben Chaib, Zouhair Meghari, Mouhsine Ibrahimi and Ouazzani Jamil Mohammed.	Thermal Comfort in Buildings: The Impact of Glazing
	Omar Dadah and Hammou Ait Rimouch.	Approach to mitigate modal truncation impacts in dynamic reanalysis scenarios
	Redouan Assadiki, Gérard Merlin, Hervé Boileau, Catherine Buhé and Fouzi Belmir.	Is there potential for a significant increase in green building development? An exploratory study of drivers to green build-ing in Morocco
	Redouan Assadiki, Gérard Merlin, Hervé Boileau, Catherine Buhé and Fouzi Belmir.	Life cycle assessment method for building: A mini literature review.
	Zineb Bounoua, Laila Ouazzani Chahidi and Abdellah Mechaqrane.	Building Heating and Cooling Load Forecasting using LSTM Deep Learning Approach
	Zineb Slaoui, Sanaa Faquir, Ali Yahyaouy and Khalid Alaoui Zidani.	A strategy for promoting green hydrogen in industry: a case study in Morocco
	Mohamed Saad Bajjou, Salma Arabi, Anas Chafi and Mohamed Ramadany.	Additive manufacturing technology: an ecoinnovative solution for the Moroccan construction industry
	Idrissi Sidi Yassine, Tahiri Mohamed Amine, Karmouni Hicham, Amakdouf Hicham, Sayyouri Mhamed, Qjidaa Hassan and Ouazzani Jamil Mohammed.	Classification of building cracks via fractional moments for IoT
	Laila Aligod and Kaoud Hebatalla.	A framework facilitating the transition to a circular economy in smart cities
	Mohammed Mouhcine Maaroufi, Laila Stour and Ali Agoumi.	Towards smart and sustainable mobility in Morocco: diagnosis and recommendations for Fez city

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Mouhcine Ayacine and Ali Faleh.

Contribution of GIS and GPS tools in the building of the intel-ligent touristic guide for the historical monuments of the old city of Fez

Noura Rassam, Mouhcine Ayacine, Mostafa Hmamouchi and Abdelghani Houari.

Contribution of the GIS in the evaluation of the historical flooding of Oued El Mehras in the urban agglomeration of Fez

CEDOC UPF/AMPHI 2

Oral Session 4: Signal and Image Processing

15:50-18:30
11.05.2023

Chair	Prof.Saloua Senhaji& Prof.Anass Manssouri
Authors	Titles
Brahim Boudaaoua, Mohamed Amine Tahiri, Hicham Amakdouf, Rachid El Alami, Mohammed Ouazzani Jamil and Hassan Qjidaa.	Automatic Detection of Cracks in Wall Images via Transfer Learning
Mohammed Tamimi, Omar El Ogri, Mohamed Amine Tahiri, Hicham Karmouni, Mohamed Ouazzani Jamil, Hassan Qjidaa and Mhamed Sayyouri.	Optimal Color Image Watermarking Scheme Based on the Transit Search Algorithm
Nawal El Ghouate, Ahmed El Maloufy, Mohamed Amine Tahiri, Hicham Karmouni, Mohamed Ouazzani Jamil, Hassan Qjidaa and Mhamed Sayyouri.	Recent progress on digital watermarking for the security of data exchanged between interconnected objects
Ahmed Bencherqui, Mohamed Amine Tahiri, Hicham Karmouni, Mohammed Alfidi, Mhamed Sayyouri, Hassan Qjidaa and Mohammed Ouazzani Jamil.	Color Image Encryption based on Archimedes Optimization Algorithm, Modified Logistic Map and DNA
Soukaina Majid, Hicham Amakdouf, Rachid El Alami, Youness El Attar, Mohammed Ouazzani Jamil and Hassan Qjidaa.	Reconstruction and classification in medical imaging by applying moment theory and deep learning
El Maloufy Ahmed, Tahiri Mohamed Amine, Karmouni Hicham, Ouazzani Jamil Mohamed, Qjidaa Hassan, Sayyouri Mhamed and Nawal El Ghouate.	Encryption Image using Two Chaotic Maps and Double DNA Encoding
Zakaria Itahriouan, Nisserine El Bahri, Abtoy Anouar and Mohamed Ouazzani Jamil.	FACS Recognition based on VGG Architecture

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Salah-Eddine Didi, Imane Halkhams, Mohammed Fattah, Younes Balboul, Mazer Said and Moulhime El Bekkali.	Design of a soft handheld button antenna with an operating 2 frequency of 60GHz in the 5G millimeter band
Tarik Hajji, Saloua Senhaji and Mohammed Ouazzani Jamil.	Detection of facial emotions using CNN
Lahcen Kabouri, Ali El Alami, Mohammed El Ghzaoui and Hassan Qjidaa.	New Compact Microstrip Rectangular Antenna for 28 GHz 5G applications
Amraoui Youssef, Imane Halkhams, Rachid El Alami, Mohammed Ouazzani Jamil and Hassan Qjidaa.	Analysis and Design of a rectangular microstrip antenna for RFID applications
Fadoua Sabbane, Hamid Tairi and Hassan Qjidaa.	Maximum Entropy Principle for optimizing Legendre Moments Order for 3D image Reconstruction
Ilyasse Aboussaleh, Jamal Riffi, Khalid El Fazazy, Adnane Mohmed Mehras, Ali Yahyaoui and Hamid Tairi.	Brain Tumor Segmentation based on Transfer Learning and Attention Mechanism Decoder

12/05/2023

OPENING CEREMONY (Centre de Conférence USMBA)

Welcome speeches

Moderators: Prof. Hicham Amekdounf, Boukil Noual and Halima El hamdaoui

General Chair of BVD'23

Prof. Mustapha IJAALI: Rector of Sidi Mohamed Ben Abdellah University

Prof Mohammed BENLEMILH Dean of the faculty of science Dhar el Meraz

Official speeches

PLENARY LECTURE 4:

Speaker: Prof. Bouchta SAHRAOUI

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Title: Advanced functionalised materials for nonlinear optical and nanophotonics applications	
Chairman: Prof. Hamid Tairi	
10:40-11:00	Coffee Break
11:00-11:30	PLENARY LECTURE 5:
	Speaker: Prof. Mustafa EZZIYANI
	Title: Smart system for Forecasting the Crops adaptation to the risks of climate change for a sustainable development of the agricultural sector.
Chairman: Prof. A. Mechaqrane	
11:40-12:10	PLENARY LECTURE 6:
	Speaker: Prof. Ahmed LAKHASSASSI
	Title: Improving human health: Challenges and Methodology for controlling thermal doses during Cancer therapeutic treatment
Chairman: Prof. Jaouad Kharbach	
12:30-14:00	LUNCH
14:30-15:00	Online PLENARY LECTURE 2:
	Speaker: Prof. Hakan OZTOP
	Title: Recent progress on numerical analysis in building energy storage systems
Chairman: Dr. Zakaria Itahriouan	
15:10-15:20	Coffee Break
CEDOC USMBA/Salle 2	
Oral Session I: Materials and structures	
	Chair
	Prof.Abdellah Razzouk- Prof.Kamal Zared & Prof.Omar Dadah
	Authors
	Titles

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15:30-18:00 12.05.2023	Abderrahim Chaib, Mohammed Zouini, El Mehdi El Khattabi and Ouazzani Jamil Mohammed.	The Optical Behavior of Smart Glass Based on VO ₂ in its Metallic State
	Benaissa Kissi.	Modeling of internal erosion :application to hydraulic structures
	Youssef El Mezriahi, Benaissa Kissi and Hassan Aaya.	Effet de la hauteur sur la résistance de l'effort tranchant par des bâtiments en béton armé à l'aide de la méthode Pushover (Height effect on resistance of base shear applied on reinforced concrete buildings using Pushover method)
	Rabab Raghieb, Ismail Naciri, Hassna Khalfi, Lahoucine Elmaimouni, Jiangong Yu and Abdellah Benami.	Numerical modeling of guided waves in three-layers functionally graded cylinders: Legendre polynomial method
	El Mehdi El Khattabi, Mohammed Zouini, Zouhair Meghari, Yassine Anigrou, Khaoula Boumais, Mouhsine Ibrahimi and Ouazzani Jamil Mohammed.	<u>Influence of Insulation Layer Thickness on Internal Building Temperature</u>
	Najat El Asri, Nawal Abdou, Mohammed Mharzi and Abdelmajid Maghnojj.	<u>Prediction of Thermal Load of a Public Building Using Polynomial Regression Method</u>
	Hassna Khalfi, Ismail Naciri, Rabab Raghieb, Jiangong Yu, Joli Randrianarivelo, Lahoucine Elmaimouni and Faniry Emilson Ratolojanahary.	<u>Modeling and analysis of axisymmetric vibration in a piezoelectric resonator with current excitation using the Legendre polynomial method</u>
	Somya Ben Abbou, Issam Aalil, Khalid Cherkaoui	Effect of fineness of brick waste powder on the mechanical proprieties of cement based mortar
	Ilhame Azdine, Benaissa Kissi and Hamza Khatib.	The shear stresses developed by the adherence of a mortar of cement to steel plates.
	Lakhili Ferdaouss, Fidae Harchli and Naoual Boukil.	Contribution to The Physicochemical and Metallic Study Of The Sediments Of Beht Basin (Morocco)
CEDOC USMBA/Salle 3		
Oral Session 2: Computational Modeling and Simulation		
15:30-18:00 12.05.2023	Chair	Prof.El Ghzaoui Mohammed- Prof.Mustapha Mellahi &Prof.Zineb Bounoua

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CEDOC USMBA/Salle 4

Oral Session 3: Circuits, Systems, and Power Electronics

	Chair	Prof.Karim El Khadiri & Prof.Alami Rachid
	Authors	Titles

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15:30-18:00
12.05.2023

Mounir Ouremchi, Karim El Khadiri, Qjidaa Hassan and Mohammed Jamil Ouazzani.	Design of a very low power temperature sensor in 65nm CMOS technology
Mustapha El Alaoui, Karim El Khadiri, Rachid El Alami and Hassan Qjidaa.	Design and implementation of an embedded system for smart farm using IoT and Arduino Mega
Anas Boutaghlaline, Karim El Khadiri, Mohammed Ouazzani Jamil, Hassan Qjidaa, Driss Chenouni and Ahmed Tahiri.	A Voltage-mode PID controlled DC-DC buck converter design for automotive applications
Aicha Menssouri, Karim El Khadiri, Mohammed Ouazzani Jamil, Hassan Qjidaa, Driss Chenouni and Ahmed Tahiri.	Enhancing the performances of gain-boost telescopic op-amp for MDAC circuit
Hatim Ameziane, Zared Kamal, Qjidaa Hassan and Hicham Akhmal.	Low Dropout Voltage Regulator with TSMC 0.18um CMOS Technology for Battery Low-Powered Embedded Systems
Abderrahim Zahri, Mounir Ouremchi, Abdelamin Diani, Ismail Boumedra, Karim El Khadiri, Mohammed Ouazzani Jamil and Hassan Qjidaa.	Design of a voltage-controlled oscillator with current-starved topology in 90nm CMOS technology
Otman Seghyar, Karim El Khadiri, Mohammed Ouazzani Jamil, Hassan Qjidaa, Ahmed Tahiri and Driss Chenouni.	Designing a DC-DC Buck Converter in CMOS 180nm Tech-nology
Anass Slamti, Karim El Khadiri, Hassan Qjidaa and Driss Chenouni.	High Power Supply Rejection Low Dropout Regulator for System-on-chip Applications in CMOS Technology
Hadji Mhamed, Abdelkader Elhanaoui and Skouri Rachid.	Embedded System of Signal Processing on FPGA
Hajjar Mamouni, Mounir Ouremchi, Karim El Khadiri, Mohammed Ouazzani Jamil and Hassan Qjidaa.	Design and optimization of a CMOS-Based Li-Ion Battery charger with LDO Regulator.
Fatima Mesbah, Karim El Khadiri, Mohammed Ouazzani Jamil, Mustapha El Alaoui, Hassan Qjidaa, Driss Chenouni and Ahmed Tahiri.	Switching Power Supply boost converter using 180 nm CMOS technology
Idriss Dagal, Hicham Karmouni , Yaya Dagal Dari, Hassan Qjidaa , Mohammed Jamil Ouazzani, Burak Akın and Mhamed Sayyouri	Atomic Search Optimization Feature Selection for Aircraft Winglet Design
Kamal Zared, Hatim Ameziane and Qjidaa Hassan.	A Dynamic Enhancement of Full-on Chip CMOS LDO Slew-rate for Batteries Powered Applications

Centre de Conférence USMBA

Oral Session 4: Artificial Intelligence, Robotics and Control

	Chair	Prof.Jamal Rifi- Prof.M.A. Mahraz & Prof.Hicham Karmouni
	Authors	Titles

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15:30-18:00
12.05.2023

Inssaf Harrade, Mohamed Kmich, Mhamed Sayyouri and Zakaria Chalh.	The basics of the robotic operating system and their intelligent applications.
Saloua Senhaji.	Optimizing bottle identification in production lines using an innovative approach based on convolutional neural networks.
Oluwadamilare Harazeem Abdulganiyu, Taha Ait Tchakoucht and Yakub Kayode Saheed.	TOWARDS AN HYBRID MODEL FOR NETWORK-BASED INTRUSION DETECTION SYSTEM (IDS) USING ARTIFICIAL INTELLIGENCE
Kaloma Usman Majikumna and Mhamed Zineddine.	Classification of Olive Trees Drought Stress Using Machine Learning Algorithms
Mohamed Kmich, Inssaf Harrade, Hicham Karmouni, Hassan Qjidaa, Mohammed Jamil Ouazzani and Mhamed Sayyouri.	Review of Visual Servoing Techniques of Robots Based on Artificial Intelligence
Hafid Oubouaddi, Adil Brouri and Abdelmalek Ouannou.	Linearization Feedback technique for Torque and Speed control of Switched Reluctance Machine
Hicham Ben Sassi, Yahia Mazzi, Fatima Errahimi and Najia Es-Sbai.	Power transfer control of an IBDAB-based Vehicle-to-grid charging station
Amal Zouhri, Mustafa Ouarh and Mostafa El Mallahi.	Integration of Artificial Intelligence and Augmented Reality into Teaching Education
Mouhcine Ayacine and Imane Halkhams.	Development of an intelligent driving licence centre
Naoual Boukil and Halima Elhamdaoui.	Multi-Agent System based on Cloud Computing for Smart healthcare: Opportunities and challenges
Mohamed Acha, Soulaïman El Hazzat and Majid Benyakhlef.	Deep Learning for 3D Point Cloud classification: Comparison and Evaluation of Three Methods
El Maloufy Ahmed, Karmouni Hicham, Tahiri Mohamed Amine, Ouazzani Jamil Mohamed, Qjidaa Hassan, Sayyouri Mhamed	Selective Digital Image Encryption using DNA Coding and Decoding

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