

3rd African Scientific Week (ASW23)

1st-2nd March 2024, Cairo, Egypt (Online)



About ASW23

The African Scientific Week (ASW23) is a Multidisciplinary scientific meeting that gathers leading academicians, scholars and researchers to share their knowledge and new ideas and discuss current development in their respective fields.

A series of conferences in fields of Mathematics, Computer sciences, Physics & Engineering, Biology, Chemistry, Geology, Geography, Environment, Social Sciences, Psychology, Management & Economy.

The African Scientific Week (ASW23) program includes lectures from our invited keynote speakers, workshops, and oral sessions. The call for contribution comprehends short papers and full papers.



The authors of selected short papers will be invited to send their extended version for publication in the Springer series book indexed by Scopus and WoS.

Important Dates:

Abstract and Paper Submission Deadline: **20th December 2023**
Abstract and Paper Acceptance announcement: **1st FEBRUARY 2024**
Registration deadline: **10th FEBRUARY 2024**
Camera-ready due: **01st-02nd March 2024**



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General Program (UTC+1)

Friday 1st March 2024

- 09:00 - 09:30 : Reception
- 09:30 - 10:30 : Opening Ceremony
- 10:30 - 12:30 : Plenary Session 1
- 12:30 - 14:30 : Break
- 14:30 - 15:30 : Plenary Session 2
- 15:30 - 18:30 : Parallel Sessions

Saturday 2nd March 2024

- 09:30 - 10:00 : Reception
- 10:00 - 11:00 : Plenary Session 3
- 11:00 - 13:00 : Parallel Sessions
- 13:00 - 14:30 : Break
- 14:30 - 17:00 : Workshops
- 17:00 - 18:30 : Closing ceremony

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Friday 1st March 2024 (UTC+1)	
09:00 – 09:30	Reception
09:30 – 10:30	Opening Ceremony Link : https://meet.google.com/bat-ctkg-ipn
	Ahmed Farouk DEIFALLA, Vice Dean graduate studies and research, Faculty of Engineering and Technology, Future University in Egypt Adil ECHCHELH, Vice President in charge of Research and Cooperation, Ibn Tofail University, Morocco Mourad AMER, CEO & Founder at IEREK – International Experts for Research Enrichment and Knowledge Exchange, Egypt Moroccan Association for Applied Sciences and Innovation (MAASI), Morocco
10:30 – 12:30	Plenary Session 1 Chairs : Charaf HAJJAJ, Aniss MOUMEN, Brahim EL BHIRI, Mustapha ZERROUK, Saïda EL MENDILI Link : https://meet.google.com/bat-ctkg-ipn
	Conference 1 : “Energy Transition: Advanced Materials for Photovoltaics (PV) and Photoelectrochemical (PEC) Solar Energy Conversion” Ahmed ENNAOUI (IRESEN, Morocco)
	Conference 2 : “Deep Learning and its Applications in Health and Environment in the Senegalese Context” Mandicou BA (UCAD, Senegal)
	Discussion
	Conference 3 : “Fuzzy Decision Making Applications in Engineering Science” Sunny Joseph KALAYATHANKAL (JEC, India)
	Conference 4 : “Ethics of Artificial Intelligence: The era of xAI” Mohamed Mahmoud EL BENANY (UNA, Mauritania)
	Discussion
Conference 5 : “Conducting large-scale cross-cultural studies: Insight from leading a international project” Marta KOWAL (UWR, Poland)	
Discussion	
12:30 – 14:30	Break
14:30 – 15:30	Plenary Session 2 Chairs : Mohamed ZOUITEN, Hajar SLIMANI, Mohamed EL BOUHADDIOUI Link : https://meet.google.com/bat-ctkg-ipn
	Conference 1 : “Usefulness of IT concepts for Earth observation: some examples” Andrea SCOZZARI (NRC, Italy)
	Conference 2 : “Research methodology in the context of Artificial Intelligence” Oumnia LALLA SBAI HASSANI (UMI, Morocco)
	Conference 3 : “Psychology shapes financial markets: scientific and empirical evidence” Ahmed EL OUBANI (UMI, Morocco)
15:30 – 18:30	Parallel Sessions
	Session 1 : Chemistry & Bio-chemistry Link : https://meet.google.com/off-iwce-dwu
	Session 2 : Physics and Engineering Link : https://meet.google.com/crt-wcgt-voi
	Session 3 : Management Sciences Link : https://meet.google.com/oaq-woxp-nmt
	Session 4 : Humanities and Social Sciences Link : https://meet.google.com/jod-tjyw-njk

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Saturday 2nd March 2024 (UTC+1)	
09:30 – 10:00	Reception
10:00 – 11:00	<p align="center">Plenary Session 3</p> <p align="center">Chairs : Nezha MEJJAD, Lamia DAGHOR, Oumaima JAMAL EDDINE</p> <p align="center">Link : https://meet.google.com/bat-ctkg-ipn</p>
	<p>Conference 1 : “Sustainable desalination as an option to solve water scarcity problem” Jauad EL KHARRAZ (RCREEE, Egypt)</p> <p>Conference 2 : “Signal: Methods et applications” Noamen REBAI (UTM,Tunisia)</p> <p>Conference 3 : “Insights into Coal Mining Landscapes: The Architecture of a Database for Hydro-Morphological Hazards and Environmental Exposures in SW Romania” Gabriela Adina MOROȘANU (IGAR,Romania)</p> <p>Conference 4 : “Exceptional morpho-sedimentary dynamics of a wave-dominated delta : Case study of the Saint-Louis breach, Senegal” Issa SAKHO (UAM, Senegal)</p> <p>Conference 5 : “Model-driven engineering for software processes” Samba DIAW (UCAD, Senegal)</p> <p>Conference 6 : “African Scientific Week : publication process and deadlines” Aniss MOUMEN (UIT, Morocco)</p>
11:00 – 13:00	Parallel Sessions
	<p align="center">Session 5 : Biology</p> <p align="center">Link : https://meet.google.com/off-iwce-dwu</p>
	<p align="center">Session 6 : Mathematics & Computer Science</p> <p align="center">Link : https://meet.google.com/crt-wcgt-voi</p>
	<p align="center">Session 7 : Water, Environment and Earth Science</p> <p align="center">Link : https://meet.google.com/sds-ehsy-zye</p>
	<p align="center">Session 8 : Financial performance and economics</p> <p align="center">Link : https://meet.google.com/oaq-woxp-nmt</p>
13:00 – 14:30	Break
14:30 – 17:30	<p align="center">Research methodology workshops</p> <p align="center">Link : https://meet.google.com/bat-ctkg-ipn</p> <p align="center">Chairs : Nezha MEJJAD, Aniss MOUMEN, Mohamed EL BOUHADDIOUI</p>
	Workshop 1 : “Plagiarism and Predatory Journals : consequences and solutions”
	Workshop 2 : “How to choice your conferences : Practical guidelines”
	Workshop 3 : “How to write and publish a literature review”
17:30 – 18:00	Closing Ceremony

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Sessions Program (UTC+1)

Date & Time (UTC+1)	01 st March 2024 from 15:30 to 18:30
Session	Chemistry & Bio-chemistry
Chairs	Oumaima Jamal Eddine, Hajar Lamkhanter, Ahmed Manni
Link	https://meet.google.com/off-iwce-dwu
Authors	Title
ILHAM AIT BRAIM	Experimental and theoretical study of the epoxidation reactions of cis-himachalone and cis-himachalol with meta-chloroperoxybenzoic acid (m-CPBA)
HAFSSA MAJDOUB	A Green Approach for Steel Surface Protection by Electropolymerization of Natural Compounds extracted from <i>Origanum vulgare</i>
AABOUCH FARAH	Chemical composition and antioxidant activity of <i>Eucalyptus camaldulensis</i> essential oil
EL MAHI KAOUTAR	Comparison of three treatment methods on melanosis inhibition and SO ₂ residual concentration in pink shrimps (<i>Parapenaeus longirostris</i>) following different sulfite-based treatments in Morocco
FATIMA BAILA	Effect on physico-mechanical properties of ceramic bodies incorporating granite waste - a review
MOHAMED ANANNAZ	Sand based materials as adsorbents for chemical removal from water - An overview
MALAK REHIOUI	Unveiling the morphological and physicochemical attributes of moroccan <i>opuntia dillenii</i> fruit from and assessing its potential valorization
HAMID BARKOUCH	Photocatalytic Degradation of Dyes by TiO ₂ /Poly (Vinylidene Fluoride) Membranes.

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Date & Time (UTC+1)	01 st March 2024 from 15:30 to 18:30
Session	Physics and Engineering
Chairs	Charaf Hajjaj, Ali Boukhriss, Said Bounouar
Link	https://meet.google.com/crt-wcgt-voi
Authors	Title
OUMAIMA ESSEFIANI	Adaptative Locally Asymptotically Optimal Test for Random Effects in GARMA Model
ABDELHAMID.BOUMRAYA	An artificial intelligence approach to optimization of Hybrid Renewable Energy Systems with energy conversion and storage in hydrogen: a review
ILHAM HARBAJ	Evaluation of radiation protection knowledge and practices among radiotherapy professionals
KAOUTAR DAHMANE	Improvement of low and high voltage-ride-through capabilities of grid connected WECS based PMSG with Distribution-STATCOM.
MALIKA ATIGUI	Literature review on the use of olive waste in construction
AMAZAL MINA	Modeling and simulation of hygrothermal transfer in a wall with different insulating materials on comsol Multiphysics
ASMA SOUIDI	Physical and chemical characterization of mussel shells for using in construction field
SLIMANE OUBEDDOU	Study and simulation of heat and moisture transfer in a wall built using ecological materials.
IHSANE BENAGRI	Traction motors and associated power electronic converters in electric vehicle drivetrains: a review
DARKAOUI EL MOKHTAR	Two-dimensional MXenes for energy storage
SAID BAJJI	Mechanical and thermal characterization of compact blocks made of Clay stabilized by wood ashes or crushed waste from traditional pottery
ANAS BOUKHRIS	The impact of the envelope composition on the thermal behavior of the building
MOUHSSINE RAMI	Influence of the operating range of the electrolysis system on the profitability of green hydrogen production factory powered by a wind generator. Case of study south of Morocco.

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Date & Time (UTC+1)	01 st March 2024 from 15:30 to 18:30
Session	Management Sciences
Chairs	Hajar Slimani, Noura Ait El Mekki, Bouteina Elgharbaoui, Moudden Kaoutar, Sanae El Maliki
Link	https://meet.google.com/oaq-woxp-nmt
Authors	Title
ZOHRA BOHDIDI	A Qualitative Exploration of Civil Society's Influence on Road Safety and Sustainable Development: Insights from Interviews and Communicative Meetings
Yousra Benyetho	Evaluation of research progress and trends on renewable energy and sustainable development: A bibliometric analysis
Kaoutar Benyetho	Exploring the Connection between Strategic Intelligence and Moroccan Small and Medium-Sized Enterprises Performance
Sanaa MARHOUI	Faut-il repenser la relation donneur d'ordre-prestataire de service ?
Meryem El Moutassim	Gamification and Marketing: Opportunities and Challenges for Customer Engagement
HIND CHAHBAR	Intercultural management and organizational performance. What the impacts?
Ahmed El OUBANI	Is investor sentiment connected to ESG index returns in emerging markets?
Nisrine BENHAMMOU	Toward a Categorization of Antecedents of the Online Shopping Experience
Siham Machmoume	Artificial Intelligence at the bedside of Public Finances: Towards a new management model
Khaoula ZAHOUANI	Fintech adoption: Key Factors Influencing Mobile Banking Usage

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Date & Time (UTC+1)	01 st March 2024 from 15:30 to 18:30
Session	Humanities and Social Sciences
Chairs	Fatima Zahra SAHLI, Mehdi EL MRHARI, Abdellah Idhssaine
Link	https://meet.google.com/jod-tjyw-njk
Authors	Title
IKRAM JIRARI	La reserve de sidi bougaba un potentiel eco-urbain
MINA MAKHOUKH	Medical translation processes: A systematic review
SAMI ENNACIRI	The quality of life in stroke patients in Beni Mellal regional hospital
BARYALA EL BATOULE	Towards more online education following the change of context: the case of the transition imposed on the Moroccan university
IKRAM AZOUGAGH	L'esthétique littéraire de Nerval et les défis des interactions culturelles
MOUNSSIF ABDERRAHIM	Dimensions of sustainable public school catering: systematic literature review
Hind EL HAMDAOUI	The choice of destination: the impact of university training on the responsible behavior of tourists
Yousra Ait Larbi	The research performance evaluation within a theoretical framework of complexity

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Date & Time (UTC+1)	02 nd March 2024 from 11:00 to 13:00
Session	Biology
Chairs	Lamia Daghor, Imane Afandi, Mariama Zbiry
Link	https://meet.google.com/off-iwce-dwu
Authors	Title
SANAE ZAIDI	Impact of COVID-19 on hospitalization of children with tuberculosis
KENZY CHARLES	In silico exploration of alkaloids extracted from plants against malaria: docking and molecular dynamics studies and ADMET evaluation.
ZINEB SEKKOUT	In vitro investigations of the anti-rheumatoid arthritis properties and immunomodulatory effects of flavonoids isolated from <i>Smyrniolum olusatrum</i> L.
MARYEM ARRAJI	Nutrition and Type 2 Diabetes: Dietary Strategies for Effective Self-Management
SALMA BENABOUICHE	Production of carotenoid from <i>Dunaliella salina</i> isolated from Akhfennir (southern Morocco)
OMAIMA BOUDAIA	The antimutagenic activity of Alkaloid extracts from <i>Tetraena gaetula</i> and <i>Smyrniolum olusatrum</i> : Comparative study
FATIHA JELLOUL	The impact of myopia linked COVID-19 to containment in Morocco
ADDOUM BOUTAINA	Unveiling ChatGPT's Potential across Biomedicine and Patient Care: From Text to Treatment.
DOUMARI BOUCHRA	Endodontie guidée, état actuel des données et perspective :Revue de littérature
ELIADINI SARA	Bioactive compounds from natural resources
Yasmina ALAMI	Exploring the antecedents of attitude towards organic and healthy food: a systematic literature review

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Date & Time (UTC+1)	02 nd March 2024 from 11:00 to 13:00
Session	Mathematics & Computer Science
Chairs	Charaf Hajjaj , Mohamed Mustapha Zarrouk, Brahim El Bhiri
Link	https://meet.google.com/crt-wcgt-voi
Authors	Title
YASSINE TALEB AHMAD	Intelligent Group Creation in Peer Assessment based on Machine Learning: Towards a New Collaborative Experience.
MANAL EL JAOUHARI	Navigating the Vehicle Routing Problem with Multi-Agent Systems Expertise
ASMAA BAIHI	Topological degree method for a coupled system of ψ -fractional semilinear differential equations with non local conditions
ANISS MOUMEN	Data mining technics to extract theoretical frameworks of social studies : case of Entrepreneurial Intention Models

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Date & Time (UTC+1)	02 nd March 2024 from 11:00 to 13:00
Session	Water, Environment and Earth Science
Chairs	Nezha Mejjad, Mohamed El Bouhaddioui, Oussama Bououarour
Link	https://meet.google.com/sds-ehsy-zye
Authors	Title
DRISS AZDEM	Examination of the levels of heavy metal contamination in the seawater along the Agadir coastline Morocco
NADIA JELLAL	Assessment of the plastic waste generated by artisanal fisheries in the Moroccan Mediterranean Coast
ABDELHAK IJAAJAANE	Investigating Tectonic Model of Joint Pattern and its Relation with Fold in the Tadighoust Anticlines (Central High Atlas, Morocco)
HAYATE ER-RATILI	Mineralogical and geochemical characterization of mining wastes from an abandoned mine in the Beni Mellal-Khenifra region, Morocco
MOUFID YOUSSEF	Morphodynamics and Impacts on the Chaâra Karst Environment (Northern Middle Atlas, Taza, Morocco)
YAZAMI ZTAIT MOHAMMED	Traditional and modern watering methods in the river area in the middle Sebou, downstream Fez
MILOUD TALIBI	Using Gis to identify land use cover change measure urban sprawl based on agricultural land: A case study of Ait Amira in central-western Morocco
MOUNIA MESSOULI	Calculation of internal and external radiation exposure from building materials using RESRAD Build Code
Hela SMIRI	Contribution of a Web-based GIS to Groundwater Resource Management : The Sminja_Oued Rmel Aquifer System In the Zaghouan Region, Tunisia

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Date & Time (UTC+1)	02 nd March 2024 from 11:00 to 13:00
Session	Financial performance and economics
Chairs	Hajar SLIMANI, Manal Benatiya ANDALOUSSI, Ahmed EL OUBANI, Zakaria LISSANEDINE
Link	https://meet.google.com/oaq-woxp-nmt
Authors	Title
MANAL EL GUEDDARI	Assessment of Foreign Exchange Reserves Adequacy in Morocco
NOR-EDDINE OUMANSOUR	Exchange rate misalignment and trade fluctuations in Morocco: an estimation using the beer approach
KHADIJA MISSAOUI	Executive Profiles and Budgetary Management in Small and Medium-sized Enterprises (SMEs)
ABDELGHANI EL LABBAR ABDELHAMID NECHAD	Exploring the Role of Moroccan Financial Centers in Enhancing the Country's Soft Power in Sub-Saharan Africa: A Literature Review.
FARAH BENOMAR	Global value chain and total factor productivity: Analysis using the lagged autoregressive approach (ARDL) - Case of Morocco
HASNAA ALOZADE	Lean Six Sigma and Financial Performance
KAWTAR BENKIRANE	Towards Improved Information Systems Agility Measurement: An Empirical test and Comparative analysis of the adaptation time Index
SARA MANTOUZI	Economy of knowledge, economic development, and the Moroccan New Model of Development (NMD): An attempt for a literature Review
YAZIDI ALAOUI BRAHIM	The demutualization of the company managing the Casablanca Stock Exchange: from the institution to a market company
Bouchtaoui Mohamed	Digital Transformation and Financial Inclusion: A Strategic Imperative for Morocco's Banking Sector