جامعة سيدي محمد بن عبد الله بفاس

ⵜⴰⵙⴷⴰⵡⵉⵜ ⵙⵉⴷⵉ ⵎⵓⵃⵎⵎⴷ ⵏ ⵄⴱⴷⵍⵍⴰⵀ ⴰ ⴼⴰⵙ

UNIVERSITÉ SIDI MOHAMED BEN ABDELLAH DE FES

THE INTERNATIONAL CONFERENCE ON INTELLIGENT SYSTEMS AND INTERNET OF THINGS 2026

ISIoT

INTERNATIONAL CONFERENCE ON INTELLIGENT SYSTEMS AND INTERNET OF THINGS 2026



CONFERENCE PROGRAM

ENSA, SIDI MOHAMED BEN ABDELLAH UNIVERSITY

FEZ, MOROCCO

MAY 14-15, 2026

Centre National pour la Recherche Scientifique et Technique

LIASSE

UPF University

SITE

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ISIoT'2026

-Conference Program Summary-

Time (GMT+1)	Thursday, May 14, 2026 In-Person Presentations			
08h00 – 09h00	Participant Welcome & Registration			
09h00 – 10h00	Conference Opening			
10h00 – 11h00	**Keynote Speech 1**			
11h00 – 11h30	Coffee Break			
11h30 – 13h30	**Parallel Oral Sessions**			
	ISIoT-S1	**ISIoT-S2**	**ISIoT-S3**	**ISIoT-S4**
13h30 – 15h00	Lunch Break			
15h00 – 16h00	**Keynote Speech 2**			
16h00 – 16h30	Coffee Break			
16h30 – 18h30	**Parallel Oral Sessions**			
	ISIoT-S5	**ISIoT-S6**	**ISIoT-S7**	**ISIoT-S8**

Time (GMT+1)	Friday, May 15, 2026 Online Presentations			
09h30 – 10h30	**Keynote Speech 3**			
10h30 – 11h00	Coffee Break			
11h00 – 13h00	**Parallel Oral Sessions**			
	ISIoT-S9	**ISIoT-S10**	**ISIoT-S11**	**ISIoT-S12**
13h00 – 15h00	Lunch Break			
15h00 – 16h00	**Keynote Speech 4**			
16h00 – 16h30	Coffee Break			
16h30 – 18h30	**Parallel Oral Sessions**			
	ISIoT-S13	**ISIoT-S14**	**ISIoT-S15**	**ISIoT-S16**

ISIoT'2026

- Detailed Conference Program -

Thursday, May 14, 2026

In-Person Presentations

08h00 – 09h00	**Registration**	**Registration Room**

09h00 – 10h00	**Opening**	**Room: AMPHI**

Opening Ceremony

10h00 – 11h00	**Keynote Speech 1**	**Room: AMPHI**

A HYBRID QUANTUM FRAMEWORK FOR CREDIT CARD FRAUD DETECTION

Prof. Fouad Mohammed Abbou, Al-Akhawayn University, Ifrane, Morocco

Session Chair: Pr. Said Hraoui, ENSA-USMBA, Fez, Morocco
Pr. Mohammed Berrada, ENSA-USMBA, Fez, Morocco

11h00 – 11h30	**Coffee Break**	**Room: Meeting Foyer**

11h30 – 13h30	**Parallel Sessions**	**Room: AMPHI**

ISIoT-S1: AI and Machine Learning Techniques

Session Chair: Pr. Yousef Farhaoui, FST-UMI, Errachidia, Morocco
Pr. Ahmad El Allaoui, FST-UMI, Errachidia, Morocco
Pr. Oussama El Gannour, ENSA, Fez, Morocco.
Pr. Marwa boumaiz, ENSA-USMBA, Fez, Morocco

Beyond Black-Box Ai a Systematic Mapping of Foundation Models for Clinical Decision Support In Primary Care

Intissar El Ouedghiri , Zakariae Alami Merrouni , Bouchra Frikh , Brahim Ouhbi

An Unsupervised ConvLSTM Autoencoder with Attention for Video Anomaly Detection

El Mehdi Alaoui Mrani , Anas Bouayad, Khalid Fardousse

Impact of Evaluation Protocols on Intra-Subject Semg-Based Hand Gesture Recognition

Abdelbasset Rachid, Said Agounad, Mohamed Ait Yous And Omar Bamaarouf

Bridging The Reality Gap: A Constraint-Driven Taxonomy for Medical Federated Learning

Mohamed Achraf Talhaoui, Zakariae Alami Merrouni, Bouchra Frikh And Brahim Ouhbi

Modeling Shopper Mood Dynamics from Interaction Sequences via Self-Supervised Temporal Transformers

Fayçal Messaoudi, Riad Loukili, Manal Loukili

Multi-Modal Perception: A Survey of Early Fusion Methodologies in Autonomous Driving

Yassine Kerwi, Aicha Hassani Alami

Koopman Operator Theory for Data-Driven Modeling of Nonlinear Dynamics: A Comparative Study

Zouhair Er-Rachedy, Otman Jaï, Brahim Ouhbi

11h30 – 13h30 Parallel Sessions Room: Room 1

ISIoT-S2: Big Data Analytics and IoT Applications

Session Chair: Pr. Bouchra Frikh, EST-USMBA, Fez, Morocco
Pr. Mohammed El Ghazi, EST-USMBA, Fez, Morocco
Pr. Khalil Maalmi, EST-USMBA, Fez, Morocco
Pr. Safae Sossi Alaoui ENSA-USMBA, Fez, Morocco

Exploring the Performance of Community Detection Algorithms: A Comparative Study

Anasse Tahboun, Farah Bensaid, Elyazid Akachar, Brahim Ouhbi, Bouchra Frikh

Digital Twins in Smart Water and Waste Management Systems: Performance, Resilience, and Implications for Risk and Insurance

Zineb Dardouri And Mourad Rehioui

A Failure-First Contrastive Learning Framework for E-Commerce Decision: Acceptance Notification

Omar El Aalouche, Fayçal Messaoudi, Riad Loukili, Manal Loukili

An Adaptive Transmission strategy for Energy-Efficient IoT-Based Environmental Monitoring for Smart Cities Using Cup Carbon Simulator

Maryem Berrezzouq, Idriss Chana, Aziz Bouazi

Unlocking the Spectral Complexity of the Anti-Atlas: A Gradient Boosting Approach Applied to PRISMA Hyperspectral Imagery for Precision Lithological Mapping

Mohamed Ali EL-OMAIRI and Abdelkader EL GAROUANI

Performance Analysis of Cloud-Native Database Architectures for IoT Edge Computing: A Systematic Study with Experimental Validation

Imane Jerrari and Ismail Assayad

One User, Many Personas: Context-Based Multi-Identity Modeling for E-Commerce Recommendation

Manal Loukili, Fayçal Messaoudi, Riad Loukili

11h30 – 13h30 Parallel Sessions Room: Room 2

ISIoT-S3: Healthcare, Social Good, and Ethics in AI and IoT

Session Chair: Pr. Mohammed El Ghzaoui, FSDM-USMBA, Fez, Morocco
Pr. Badraddine Aghoutane, FS-UMI, Meknes, Morocco
Pr. Ali Yahyaouy, FSDM-USMBA, Fez, Morocco
Pr. Meryem Amane, ENSA-USMBA, Fez, Morocco

Automated Analysis of Panoramic Radiographs for Tooth Detection and Numbering Using Deep Transfer Learning

Yassine L., Benfares A., Qjidaa H. and Ouazzani Jamil M

Comparative Evaluation of CNN Architectures for Melanoma Classification under TinyML Constraints

Ali Belkhiri, My Abdelouahed Sabri, Yousef Farhaoui

Interpretable Machine Learning Model for Automatic Classification of Liver Diseases

M. Qjidaa , A. Benfares, M. A. El Azami El Hassani, A. Benkabbou, A. Souadka, A. Majbar, Z. El Moatassim, O. Lahnaoui, M. Raouf, A. Lakhssassi, M. Mustapha, B. Alami, H. Qjidaa, S. Massou, M. Ouazzani Jamil, A. Cherkaoui

AIoT-Enabled Intradialytic Monitoring and Clinical Decision Support for Patient Safety

Zineb Sqalli Houssaini, Younes Balboul, Anas Bouayad

Comparative Analysis of Artificial Intelligence Algorithms for Accurate Segmentation of Liver Tumors: Implications for Diagnosis and Treatment

Rebbane Kawtar, Senhaji Saloua, Boukil Naoual, Omar El Ogri, Mohammed Amine Khachchab, Adam Khachchab and Abdelkrim Berriche

Deep Learning Based Glucose Forecasting for Type 2 Diabetes Patients in Morocco: LSTM versus Transformer-LSTM

Ez-zaiym Mustapha, El Moutaouakil Karim, and Baizri Hicham

Comparative Analysis of Metaheuristic Algorithms for Medical Feature Selection

Chaimae Lazrak, Anas Bouayad and Adnane Talha

11h30 – 13h30 Parallel Sessions Room: Room 3

ISIoT-S4: Security, Trust, Privacy in AI and IoT

Session Chair: Pr. Said Agoujil, ENCG-UMI, Meknes, Morocco
Pr. Zakaria Alami Merrouni, FMPDF-USMBA, Fez, Morocco
Pr. Khalid Fardousse, USMBA, Fez, Morocco
Pr. Mohammed Berrada, ENSA-USMBA, Fez, Morocco

Tabular Generative Models Benchmarking for Flow-Based Intrusion Detection under Consistent Protocols

Badr Mikou and Anas Bouayad

PAVAS++: Inline Trust-Driven Security for Real-Time Cloud Defense

Chorouq Laarouja, Khalid Bouragba, Mohamed Ouzzif

Cybersecurity of satellite imaging systems: dual watermarking in a transformed domain for data authentication and traceability

Tamimi Mohammed, Mohamed Amine Tahiri, Ahmed Bencherqui and Mhamed Sayyouri

From IDS to Clinical Action: A LLM Pipeline for IoMT Security Alerts

Ghita Lazrek, Younes Balboul, Kaouthar Chetioui, and Oussama EL Gannour

Graph Neural Network Pipeline for Anti-Money Laundering Transaction Detection

Youssef Bekach, Yahya Bougteb, Bouchra Frikh, Brahim Ouhbi

Temporal Behavior Fingerprints for Lightweight Intrusion Detection Host (srcIP) and Service (dstPort) Perspectives onTII SSRC23

Janati Mohammed, Fayçal Messaoudi, Ismail El Khadri

A Review and Comparative Evaluation of Medical Image Encryption Techniques for Secure Healthcare Applications

Saad Houmadi, Mhamed Sayyouri

13h30 – 15h00 **Lunch Break** **Room: Meeting Foyer**

15h00 – 16h00 **Keynote Speech 2** **Room: AMPHI**

FROM EQUATIONS TO CONNECTED INTELLIGENCE: PHYSICS-INFORMED NEURAL NETWORKS AND AIOT FOR NEXT-GENERATION ENGINEERING SYSTEMS

Prof. Otman Jaï, Sidi Mohamed Ben Abdellah University, Fez, Morocco

Session Chair : Pr. Younes Balboul, ENSA-USMBA, Fez, Morocco
Pr. Anas Bouayad, FSDM-USMBA, Fez, Morocco

16h00 – 16h30 **Coffee Break** **Room: Meeting Foyer**

16h30 – 18h30 **Parallel Sessions** **Room: AMPHI**

ISIoT-S5: Healthcare, Social Good, and Ethics in AI and IoT

Session Chair : Pr. Khalid El Fahssi, FSDM-USMBA, Fez, Morocco
Pr. Rachid El Alami, FSDM-USMBA, Fez, Morocco
Pr. Kaouthar Chetioui, ENSA-USMBA, Fez, Morocco
Pr. El mehdi Mellouli, ENSA-USMBA, Fez, Morocco

Multimodal Artificial Intelligence In Gynecologic Oncology: From Fragmented Data To Integrated Clinical Intelligence

Zakariae Alami Merrouni, Meryem Boubbou, Chehrazad Bouchikhi, Saïd Boujraf

Transfer Learning, Decision Fusion, And Ensemble Models for Liver Tumor Automatic Segmentation

M. Qjidaa, A. Benfares, M. A. El Azami El Hassani, A. Benkabbou, A. Souadka, A. Majbar, Z. El Moatassim, O. Lahnaoui, M. Raouf, A. Lakhssassi, M. Mustapha, B. Alami, H. Qjidaa, S. Massou, M. Ouazzani Jamil, A. Cherkaoui

From Visual Features to Structured Reasoning: Graph-Based Knowledge Integration in Radiology Report Generation

Moustapha Boubacar Hamma - Zakariae Alami Merrouni - Bouchra Frikh - Brahim Ouhbi

Nutritional Recommendation Systems in Oncology State of the Art and Future Perspectives

Chakib Karym, Anas Bouayad, Younes Balboul

Lightweight Convolutional Neural Network for Four-Class Brain Tumor MRI Classification

Mohammed Amine Khachchab, Senhaji Saloua, Boukil Naoual, Omar El Ogri, Rebbane Kawtar, Adam Khachchab, Abdelkrim Berriche

Segmentation as a Primary Source of Uncertainty in AIBased Longitudinal Oncology Imaging

Zakariae Alami Merrouni, Meryem Boubbou, Saad Boujraf

A Lightweight Dual-Head MobileNetV2 Framework for Non-Invasive Anemia Detection and Hemoglobin Estimation

Omar Mehraby, Bouali Et-taibi and Rania Abchir

16h30 – 18h30 Parallel Sessions Room: Room 1

ISIoT-S6: Communications, Sensor Networks, and Industrial IoT

Session Chair: Pr. Wafae El Hamdani, ENSA-USMBA, Fez, Morocco
Pr. Imane Halkhams, FSI, UPF, Fez, Morocco
Pr. Said Mazer, ENSA-USMBA, Fez, Morocco
Pr. Younes Balboul, ENSA-USMBA, Fez, Morocco

A Generalized Architecture for Anomaly Detection in IoT Networks using Ensemble Learning

Hamza Rhachi, Younes Balboul , Anas Bouayad

Benchmarking Datasets for QoS Optimization in 5G and 6G Networks

Sara Lahlou, Younes Balboul, Marwa Boumaiz

Datasets for AI-based Anomaly Detection in 5G and Beyond Networks

Fatima Zahrae El Foghali, Younes Balboul, Marwa Boumaiz

Effects of Multipath Signals Smart Antenna

Adiba EL Fadl, Chaimae EL-Yazami, Radouan Gouaamar, Majid Mouhib, Yassine Mesbahi, Seddik Bri

Spare Parts Supply Chain Simulation

Oumaima Bounou, Zaynab Kaichouh, Doha Haloui, Latifa Ezzine

Regression Machine Learning-Based SIW Terahertz Antenna

Youssef Amraoui, Imane Halkhams, Rachid El Alami, Mohammed Ouazzani Jamil, Hassan Qjidaa

Explainable AI for Terahertz Antenna Design: Concepts, Challenges, and Future Directions.

Nasredine Boujmil, Mohammed Fattah, Mohammed Mahfoudi, Said Mazer and Moulhime El Bekkali

16h30 – 18h30 Parallel Sessions Room: Room 2

ISIoT-S7: Education, Work, and Society in AI and IoT

Session Chair: Pr. Abderrahim Boutahar, ENSA-UCD, El Jadida, Morocco
Pr. Hamane Lemziouka, FSDM-USMBA, Fez, Morocco
Pr. Mahjoub Boufounas, FS-UMI, Meknes, Morocco
Pr. Hatim Ameziane, ENSA- USMS, Khouribga, Morocco

Designing a Human-AI-Human Reaction (HAHR) System for Learner-Sourced Pedagogy in Adaptive Intelligent Tutoring Systems

Nour Eddine Khender, Meryem Amane, Mohamed Berrada and Mounir Gouiouez

A systematic review of recent studies on artificial intelligence, motivation, and engagement in education

Samir Elhouari, Touria Karite, Amal Yalid and Zouhir Ibn Battouta

AI and PACTE-ESRI 2030 vision, the Future of Moroccan Higher Education

Bilal Halhoul, Mounir Gouiouez and Meryem Amane

Integrating Adaptive Artificial Intelligence in Moroccan Secondary Physics Education: A Multidimensional Framework for a Systematic Literature Review

Ahmed El Bouziani, Abdelhafid Es-saqy, Mohammed Fattah and Moulhime El Bekkali

Predictive Models for Estimating Student Performance: Approaches and Applications in Educational Data Mining

Zineb Sabri, My Abdelouahed Sabri, Ali Yahyaouy, Abdellah Aarab

Artificial Intelligence for the Digitization of Arabic Documents: Application to the Official Bulletins of Morocco

Salma El-Mezoury, Abdelali El Alaoui El Mahi, My Abdelouahed Sabri

Emergency Technologies for Smart Mobility: A Systematic Mapping Study

Kenza Oufaska, Fatima Ezzahrae Ikken, Hafsa Zarhouti, Hajar Zgaoua, And Khalid El Yassini

16h30 – 18h30 Parallel Sessions Room: Room 3

ISIoT-S8: Sustainable Development and Agriculture in AI and IoT

Session Chair: Pr. Mounir Ouremchi, EST-USMBA, Fez, Morocco
Pr. Mohammed El Idrissi, EST-USMBA, Fez, Morocco
Pr. Said Hraoui, ENSA-USMBA, Fez, Morocco
Pr. Anas Bouayad, FSDM-USMBA, Fez, Morocco

Predicting Hydrogen Storage Performance in Abh3 Hybrid Perovskites Using Machine Learning Algorithms

H. Nasser, S. Elhadfi, H. Chadli, M. Fattah, B. Fakrach and A. Rahmani

Early Detection of Wheat Infections Using Hybrid CNN-BiLSTM Architecture

Younes Bencheikhi, Anas Bouayad, Adnane Talha

Barriers to Additive manufacturing integration in construction: a systematic review

Hind Jebbouri, Anas Chafi, Salaheddine Kammouri Alami

Smart Governance of Urban Drinking Water Services in Morocco: Comparative Analysis of Meknes and Casablanca in the Context of the Regional Multiservice Companies (SRM) Reform

Nemmassi El Bachir and Nourddyne El Harchaoui

Smart Cities for Sustainable Urban Management: Environmental and Social Impacts of Organizing Sporting Events in Host Cities in Morocco

Mohammed Chamcham; Abderrazzak Lamriss; Naoufal Haddour; Abdelaaziz Bouyahiaoui; Jalila Guedad

Multilingual Media Framing and Sentiment Dynamics in International Coverage of Morocco: A GDELT-Based LLM Annotation Approach

Abdelilah Omari and Imane Satauri

Integrated and Smart Urban Water Governance in Morocco: Managing Multiple Water Flows in the Context of the SRM Reform

Nemmassi El Bachir and Nourddyne El Harchaoui

Friday, May 15, 2026

Online Presentations

09h30 – 10h30	Keynote Speech 3	Online

Meet Link: meet.google.com/rrq-grij-nmw

CHALLENGES IN THE NEXT GENERATION OF IOT-BASED SMART SYSTEMS AND A CASE STUDY

Prof. Prof Xiaodong Liu, School of Computing, Engineering and Built Environment, Edinburgh Napier University, UK

Session Chair : Pr. Fatima Amounas, FST-UMI, Errachidia, Morocco
Pr. Hakim El Fadili, ENSA-USMBA, Fez, Morocco

10h30 – 11h00	Coffee Break

11h00 – 13h00	Parallel Sessions	Online

ISIoT-S9: AI and Machine Learning Techniques

Session Chair : Pr. Otman Jaï, EST-USMBA, Fez, Morocco
Pr. Abdelilah Hilali, EST-USMBA, Fez, Morocco
Pr. Mounir Gouiouez, FLSH-USMBA, Fez, Morocco

Meet Link: meet.google.com/hcp-digk-yyk

Enhanced Artificial Bee Colony Algorithm for Nonlinear Systems of Equations
Zaroual Bazirha, Mohammed Bazirha, Lahcen Azrar

Advances in Knowledge Graph-Enhanced Recommender Systems
Amine Hamich, Yahya Bougteb, Brahim Ouhbi, Bouchra Frikh

Urban Mobility in the Rabat Region: A Multi-Agent Simulation Framework for Strategic Decision-Making
Yassine Fathi, Khalid Qbouche, Khadija Rhoulami

Deep Learning-Based Emotion Recognition in Dogs Using Multi-Modal Vision
Dr. K Venkatesan, Rahul Kemburu, Tirumalasetty Venkata Mohith Sai, Dr. Syarifah Bahiyah Rahayu

Bridging the Quality–Privacy Gap in IoT Face Recognition: A Quality-Adaptive Framework with Cancelable BioCodes

Thai Thong Vo Nguyen, Linh Thuy Nguyen Tran, and Bao Gia Tran

Deep Learning and Machine Learning Models for IDPs Classification Based on Demographic Data to Guide Humanitarian Aid in Tigray

Gebreagziher Gebrelibanos Mesfun, Melelom Gebremedhin, Gebremariam Haile Gebrselassie,Gebrhans Weldegebriel

Optimizing sustainable customer satisfaction through machine learning models: a predictive approche to consumer behavior

Niama Madani Alaoui, Lhoussaine Alla

11h00 – 13h00 Parallel Sessions Online

ISIoT-S10: Big Data Analytics and IoT Applications

Session Chair: Pr. Rajae El Ouazzani, EST-UMI, Meknes, Morocco
Pr. Redouane Chaibi, FST-UMI, Errachidia, Morocco
Pr. Zouhaier Brahmia, University of Sfax, Tunisia

Meet Link: meet.google.com/qca-mgsz-hqq

From Decision Accountability to Model Integrity: Extending Blockchain-Based Auditing for Complete DDQN Lifecycle Assurance in NIDS

Haddane Ibtissam, Hirchoua Badr, Moutachaouik Hicham

Towards Reliable Score-Based Anomaly Detection in Agricultural IoT: A Benchmark of Uncertainty Quantification Methods

Ahmed Amamou, Bilal Ben Mahria, Younes Balboul, Said Hraoui, Mimoun Lamrini

Integrating IoT and Big Data for Smart Farming Architectures, Use Cases, and Challenges

Achraf Elaouaqi, Hicham Aberbach And Abdelouahed Sabri

Cluster-Based Energy Consumption Forecasting Using Enhanced Fractional Probabilistic Self-Organizing Maps

Safaa Safouan Et Karim El Moutaoukil

Reinforcement Learning for Profit-Aware Promotion Optimization in E-Commerce

Riad Loukili, Fayçal Messaoudi, Manal Loukili

Counterfactual Deep Learning for Decision-Making in E-Commerce Platforms

Raouya El Youbi, Manal Loukili, Fayçal Messaoudi, Riad Loukili

11h00 – 13h00 Parallel Sessions Online

ISIoT-S11: Healthcare, Social Good, and Ethics in AI and IoT

Session Chair: Pr. Hamza El Hafdaoui, Al Akhawayn University, Ifrane, Morocco
Pr. Mourad Yessef, ESTN-UMP, Oujda, Morocco
Pr. Chaimae Chekira, ENSA, USMBA, Fez, Morocco

Meet Link: meet.google.com/ipq-tswj-szb

An optimized attention mechanism for Renal abnormalities classification

Aya Nuseir and Marc Ebner

A Selective Weighted Soft-Voting Ensemble of CNN and Hybrid Transformers for Robust Lung Cancer Classification

Zakaria Hassoun, Ait Kerroum Mounir, Issam Aattouchi

State-of-the-Art Disease Entities Extraction: A Domain Optimized Language Model

Hajiba Ifrah, Youssef Mellah, Houda Benhar, Sara Chadli and Mohammed Saber

Towards a Bi-Temporal open EHR Framework: Enhancing Auditability and Clinical Accuracy in the Tunisian Health Ecosystem

Zouhaier Brahmia

Machine Learning for Health Insurance Ratemaking: The Moroccan Case

Fatima El Kassimi ; Jamal Zahi

From Uncalibrated to Trustworthy: Conformalized Quantile Random Forests for Probabilistic Demand Forecasting in Healthcare Supply Chains

Boutayna Elghomri, Fayçal Messaoudi, Adnen El Amraoui, Hamid Allaoui

Mapping The Current Landscape of Artificial Intelligence in Financial Technology: A Bibliometric Analysis

Jaride Chama, Hajraoui Kenza, Benabdelkrim El Filali Yasmine, Rahou El Hassania

11h00 – 13h00 Parallel Sessions Online

ISIoT-S12: Security, Trust, Privacy in AI and IoT

Session Chair: Pr. Fatna El Mendili, EST-UMI, Meknes, Morocco
Pr. Zakariyaa Ait Elmouden, EST-UMI, Meknes, Morocco
Pr. Achraf Haibi, EST, UMI, Meknes, Morocco
Pr. Zakaria El Ouazzani, ENSA, USMBA, Fes, Morocco

Meet Link: meet.google.com/dpo-ahox-nxv

An Intelligent URL-Based Machine Learning Framework for Phishing Website Detection

Alla Kavya, Paladugu Chaitanya Sai, Guntupalli Hema Sindhu, Chepuri Vamsi Krishna, Sampathirao Suneetha

A Comprehensive Strategy of Ids System Improvement for IoT Cyber-Attack Detection Based on Machine Learning

Jiawei Zhang, Xin Zhang, Xinyin Miao

Non-invasive RF-induced Sensor Spoofing in IoT Systems: An Experimental Study of Analog Front-End Integrity and System-Level Impact

Rajesh Singh, Brigadier Jitendra Nandan Bhatt, VSM

Double Deep Q-Network Framework for Adaptive Intrusion Detection

Haddane Ibtissam, Hirchoua Badr, Moutachaouik Hicham

Lightweight Detection of Mirai Botnet in IoT Environments using Random Forest Classifier

Houssam Bouardi, Imane Arioua, Mohamed Agoumi, Said Hraoui, Hakim El Fadili

Privacy-Preserving Intrusion Detection: A Federated Learning Framework with K-Means Feature Enhancement

Jallal-Eddine Moussaoui, Mehdi Kmiti, Yassine Maleh, and Khalid El Gholami

Explainable Deep Learning for Proactive Malware Detection

Meriem Oudrhiri Benaaddach, Youness Balboul, Said Hraoui, Saadeddine Chafi

13h00 – 15h00 **Lunch Break**

15h00 – 16h00 **Keynote Speech 4** **Online**

Meet Link: meet.google.com/woc-rkka-cjp

WHEN AI MEETS REALITY: GOVERNANCE, DATA, AND THE LIMITS OF INTELLIGENT SYSTEMS

Prof. Anastasija Nikiforova, Faculty of Science and Technology, Institute of Computer Science, University of Tartu, Estonia

Session Chair: Pr. Hatim Ameziane, ENSA- USMS, Khouribga, Morocco
Pr. Mohammed Fattah, EST-USMBA, Fez, Morocco

16h00 – 16h30 **Coffee Break**

16h30 – 18h30 **Parallel Sessions** **Online**

ISIoT-S13: AI and Machine Learning Techniques

Session Chair: Pr. Fayçal Messaoudi, ENCG-USMBA, Fez, Morocco
Pr. Manal Loukili, ENCG-USMBA, Fez, Morocco
Pr. Pape Abdoulaye FAM, ESP, University of CAD, Dakar, Senegal

Meet Link: meet.google.com/qrq-npvh-gec

AI-Based Generation of Conceptual Models from Textual Software Requirements: A Lite Systematic Literature Review

Ilyass Ronda, Nassim Kharmoum, Soumia Ziti

Attention Mechanisms for Rare Pathologies in Retinal Oct Analysis: A Resnet50-Cbam Approach to Improving Minority Class Detection

Azzeddine Hlali;Majid Ben Yakhlef;Soulaiman El Hazzat

A Comprehensive Evaluation of Yolov10 and Yolov11 for Real-Time Gesture-Based Drone Command Recognition

Rania Ait Ben Lahcen, Anas Bouayad

Machine learning models for predicting the properties of surface waves in a bilaminated cylindrical shell

Elhoussine Oukhai, Said Agounad, Abderrahim El Aouni, And Abedlaaziz Ghari

Adaptive Intelligence: Machine Learning for Environmental Risk -Aware Information Systems
Magagi Ali Bachir

A Data-Driven Statistical Evaluation of Sliding Mode Controllers for Mobile Robot Trajectory Tracking
Mounime El Anaya, Omar El Ogri, Amal Hjouji, Jaouad El-Mekkaoui

16h30 – 18h30 Parallel Sessions Online

ISIoT-S14: Communications, Sensor Networks, and Industrial IoT

Session Chair: Pr. Samira El Faiz, EST-UMI, Meknes, Morocco
Dr. Abdelhafid Es-Saqy, USMBA, Fez, Morocco
Pr. Najib El Ouanjli, EST-UMI, Meknes, Morocco
Pr. Mahmoud Mehdi, Lebanese University, Beirut, Lebanon

Meet Link: meet.google.com/kfa-ieuf-nwj

A Low-Power Chopper-Stabilized CMOS Bio-Amplifier with Impedance Boosting Loop for High-Fidelity EEG Signal Acquisition
Younes Laababid, Mohammed Habib, Mohammed Chaman, Mustapha Zghaid, Karim El khadiri

Physics-Informed Machine Learning for Terahertz Patch Antenna Design in 6G Systems
Nasredine Boujmil, Mohammed Fattah, Mohammed Mahfoudi, Said Mazer and Moulhime El Bekkali

Advanced IoT Based Vehicle Tracking for Enhanced Fleet Management
S. Gayathri, K. Sai Kumar, D. Abhinav, Dr. B. Navothna

Performance Analysis of Intelligent Reflecting Surface-Based Wireless Networks Under Rician Fading
Mohamed Bourhail, Faissal El Bouanani, Zakaria El Allali, and Toufik Chaayra

Advanced Driver Assistance Systems (ADAS) Key Features and Associated Cyber Threats
Imane Halkhams, Saad Motahhir, Hakim El Fadili

A Low-Cost Edge IoT System for Photovoltaic Energy Monitoring with MPPT Control
Abdelmalek Mimouni, Youssef Chahet, Aumeur El Amrani, Mohamed El Amraoui, Mohamed Azeroual and Lahcen Bejjit

Improved Fuzzy Logic–Based MPPT for Standalone PV Systems
Omar Kabouri, Diana Kalibatiene, Alhussein Bagayogo, Fatima Zahra Moughraoui, Mohamed Azeroual, and Hassane El Markhi

Low Cost Decentralised Air Purification and Monitoring System
Rushikesh Dike, Gaurav Kulkarni, Aishwarya Khope, Shahid Shaikh, Sagar Janokar, Archana Ratnaparkhi

16h30 – 18h30 Parallel Sessions Online

ISIoT-S15: Security, Trust, Privacy in AI and IoT

Session Chair: Pr. Mohammed Mahfoudi, EST-AEU, Tetouan, Morocco
Pr. Adnane Talha, FSJES-USMBA, Fez, Morocco
Pr. Saad-Eddine Chafi, ENSA-USMBA, Fez, Morocco
Pr. Hakim El Fadili, ENSA-USMBA, Fez, Morocco

Meet Link: meet.google.com/cbq-fbub-qds

Comparative Analysis of Encoder-Only and Decoder-Only Large Language Models for Malware Detection

Ouba Moussa, Hicham Gueddah, Soumia Ziti

A Comparative Study of Proprietary Large Language Models for Software Vulnerability Analysis

Mohammed El-Aji, Siham Lamzabi, Yassine Sembati, Yassine Zaoui and Soumia Ziti

A Review of Contemporary Deep Learning Approaches in Image Encryption

Ilham Karmouni, Safae Belamfedel Alaoui and Mhamed Sayyouri

How Intelligent Conversational Agents Drive Trust and Engagement: The Mediating Role of Usability and Personalization in Digital Marketing

Hasna Zini, Hakima Fasly, Jamal Youssef, Fatima Bouhali, and Hicham Medromi

Towards Assured Quality in Ai-Driven Cybersecurity Systems: Decision Accountability Through Blockchain-Based Auditing

Haddane Ibtissam, Hirchoua Badr, Moutachaouik Hicham

Machine Learning for Cybersecurity: Emerging Approaches

Fatima Zahra Bernoussi, Said Hraoui

16h30 – 18h30 Parallel Sessions Online

ISIoT-S16: Sustainable Development and Machine Learning Techniques

Session Chair: Pr. Tarik Ahajjam, Hassan II University, Morocco
Pr. Mohammed Moutaib, ENSA-USMBA, Fez, Morocco
Pr. Moulhime El Bekkali, ENSA-USMBA, Fez, Morocco
Pr. Anshul Verma, Banaras Hindu University, Varanasi, India

Meet Link: meet.google.com/zxt-onrs-sfv

A Comparison of Static and Sequential Analysis for Customer Churn Prediction

Meryem Chajia, El Habib Nfaoui, Soufiyan Ouali

CropAI: Explainable AI for Precision Crop Yield Prediction and Counterfactual Input Optimization

Vojeshwini M V and Shekhar R

Deep Learning-Based Smart Waste Classification: A Comparison of CNN and Transfer Learning Models

Binay Sharma and Anuradha Shukla

Towards Intelligent Learning Platforms: ChatGPT-Based Formative Assessment and Personalized Remediation

Siham Guenboura, Khalid El Khattabi, Fatima Ouzennou

Low-Cost Digital Oscilloscopes for Experimental Electricity Education: State of the Art and Perspectives

Abdelhafid Es-Saqy, Mohammed Fattah, Said Mazer, Moulhime El Bekkali

AI-Driven Livestock Disease Classification and Treatment Guidance Using MobileNetV2

Mohamed Amine Nebri, Abdellatif Moussaid, Belaid Bouikhalene