

WCOS'22 Main Program

Monday, June 20 th , 2022		
08h00 - 09h00	Welcome Desk / Registration	
09h00 - 09h30	Official Opening Prof. Azzeddine El Midaoui, President, Ibn Tofail University, Kenitra, Morocco Prof. Mohammed Ebn Touhami, Dean, Faculty of Sciences, Ibn Tofail University, Kenitra, Morocco Prof. Khalil Ibrahim, General Chair of WCOS'22, Faculty of Sciences, Ibn Tofail University, Kenitra, Morocco Prof. Mohammed Benattou, Co-Chair of WCOS'22, Faculty of Sciences, Ibn Tofail University, Kenitra, Morocco Prof. Youssef Fakhri, LaRI Director, Faculty of Sciences, Ibn Tofail University, Kenitra, Morocco	
09h30 - 10h00	Coffee Break	
Keynote Speakers Session (Room Polyvalente)		
10h00 - 12h00	Talk 1 : <i>Mobility Management and Security in Smart City</i> Prof. Jalel Ben Othman, University of Sorbonne Paris Nord & L2S lab, CNRS, Centrale-Supélec, France Talk 2 : <i>Flexible resource management in Next generation networks</i> Prof. Abdellatif Kobbane, Mohammed V University, ENSIAS, Rabat, Morocco Chair : <i>Pr. Khalil Ibrahim (UIT, FS, Kenitra) / Pr.Mohammed Benattou (UIT, FS, Kenitra)</i>	
12h00 - 14h00	Lunch	
14h00 - 15h30	Session 1 (room Polyvalente) : Security and Blockchain Chair : <i>Pr. Fouad Ayoub /Pr. Mohammed Amnai (UIT, FS, Kenitra)</i>	Session 2 (room B) Wirless Networks Chair : <i>Pr. Abdelghani Souhar / Pr. Adil El Makrani (UIT, FS, Kenitra)</i>
15h30 - 16h00	Coffee Break	
16h00 - 17h30	Session 3 (room Polyvalente) : Software Engineering Chair : <i>Pr. Abdelalim Sadiq / Pr. Ameer El Bachir (UIT, FS, Kenitra)</i>	Session 4 (room B) : MachingLearning and Information Coding Chair : <i>Pr. Younes Chichab (UIT, EST, Kenitra)/Pr. Khalid Choug dali (UIT, ENSA, Kenitra)</i>
17h30 - 18h00	Cloture Chair :Pr. Youssef Fakhri / Pr. Khalil Ibrahim (UIT, FS, Kenitra)	

Detailed program

Opening Speech - (09:00-09:30)

Plenary Speaker 1- (10:00-11:00)

- **Speaker:** Prof. **Jalel Ben Othman**, University of Sorbonne Paris Nord & L2S lab, CNRS, CentraleSupélec, France
- **Title :** *"Mobility Management and Security in Smart City"*
- **Chair:** Pr. **Khalil Ibrahimi** (UIT, FS, Kenitra, Morocco)

Plenary Speaker 2- (11:00-12:00)

- **Speaker:** Prof. **Abdellatif Kobbane**, Mohammed V University, ENSIAS, Rabat, Morocco
- **Title :** *"Flexible resource management in Next generation networks"*
- **Chair:** Pr. **Mohammed Benattou** (UIT, FS, Kenitra, Morocco)

Lunch- (12:00-14:00)

Session I- (14:00-15:30): Security andBlockchain

Session Chairs: Pr. **Fouad Ayoub** (CRMEF, Kenitra, Morocco)/Pr. **Mohammed Amnai** (UIT, FS, Kenitra, Morocco)

Paper: #1: "Blockchain, a bibliographic study", Manal IZEM, Mohamed AMNAI (LaRI Lab, FS, UIT Kenitra, Morocco).

Paper: #2: "TTIDS :A Time Trust Based Intrusion Detection System for IoT Networks", Mouad Choukhairi, Youssef Fakhri and Mohamed Amnai (LaRI Lab, FS, UIT, Kenitra, Morocco)

Paper: #3: "Patch Management Solution based on Blockchain and Smart Contracts", Boutaina Jebbari (UIR & LaRI Lab, FS, UIT, Kenitra, Morocco), Khalil Ibrahimi (LaRI Lab, FS, UIT, Kenitra, Morocco) and Mounir Ghogho (UIR, Morocco)

Paper: #4: "From Security equipment's to QRADAR", Yasmine El Barhami and Chaymae Bensaid (LaRI Lab, FS, UIT, Kenitra, Morocco)

Paper: #5: "Anomaly-based Intrusion Detection System for IoT Networks using Deep Learning Approach", (Benaddi Hafsa and Ibrahimi Khalil FS, UIT, Kenitra, Morocco)

Paper: #6: "Risk management of critical information infrastructures", Chaymaa Bensaid, Yasmine El Barhami and Omar Zenzoum (LaRI Lab, FS, UIT, Kenitra, Morocco)

Session II - (14:00-15:30): Wireless Network

Session Chairs: Pr. Abdelghani Souhar (LaRILab, FS, UIT, Kenitra, Morocco) / Pr. Adil El Makrani (LaRI Lab, FS, UIT, Kenitra, Morocco)

Paper: #7: "Routing Protocol for Underwater Wireless Sensors Network", Hamza Zradgui and Khalil Ibrahim (LaRI Lab, FS, UIT, Kenitra, Morocco)

Paper: #8: "Towards a new approach to protect Wireless Sensor Networks against attacks", Omar Zenzoum, Yassine Rayri and Hatim Kharraz Aroussi (LaRI Lab, FS, UIT, Kenitra, Morocco)

Paper: #9: "Handwritten Arabic Characters Recognition Using Capsule Networks", Mehdi Daldali and Abdelghani Souhar (LaRILab, FS, UIT, Kenitra, Morocco)

Paper: #10: "Predicting stock market index using LSTM", Zakaria Al Bakkari, Adil El Makrani and Ikram El Azami (LaRILab, FS, UIT, Kenitra, Morocco)

Paper: #11: "Initial Approach to Solving Information Extraction Problems Using Natural Language Processing Techniques", Ismail Zaidi (LaRI Lab, FS, UIT, Kenitra, Morocco), Siham Boulaknadel (IRKAM, Rabat, Morocco) and Youssef Fakhri (LaRI Lab, FS, UIT, Kenitra, Morocco)

Paper: #12: "ODMD: An Open Dataset for Moroccan Dialect", Omayma Amezian, Soufiane Hajbi and Younes Chihab (LaRI Lab, FS, UIT, Kenitra, Morocco)

Coffee Break - (15:30-16:00)

Session III - (16:00-17:30): Software Engineering

Session Chairs: Pr. Abdelalim Sadiq (LaRILab, FS, UIT, Kenitra, Morocco) / Pr. Ameur El Bachir (LaRI Lab, FS, UIT, Kenitra, Morocco)

Paper: #13: "Semantic indexing methods, approaches and models for effective research, application for the enhancement of documentary heritage". Zakaria Enneffah, Youssef Fakhri and Siham Boulaknadel (LaRILab, FS, UIT, Kenitra, Morocco)

Paper: #14: "Applying data mining algorithms to predict Hepatitis C virus infection", Abdelaali Kemmou, Adil El Makrani and Ikram El Azami (LaRI Lab, FS, UIT, Kenitra, Morocco)

Paper: #15: "Materialized views selection problem in decision supporting systems: issues and challenges", Ridani Mohamed and Mohamed Amnai (LaRI Lab, FS, UIT, Kenitra, Morocco)

Paper: #16: "Challenges involved in data integration", Merieme El Abassi, Mohamed Amnai, Ali Choukri, Youssef Fakhri and Noredine Gherabi (LaRI Lab, FS, UIT, Kenitra, Morocco)

Paper: #17: "An Intelligent Hybrid Approach for Oil Prices Forecasting", Hicham Boussatta, Marouane Chihab and Younes Chihab (LaRI Lab, FS, UIT, Kenitra, Morocco)

Paper: #18: "AIEyeOn : A Computer Vision and Deep Learning-based Assisting System for Obstacle Avoidance", Fatima Zahrae Aithamouaadi and Abdelalim Sadiq (LaRI Lab, FS, UIT, Kenitra, Morocco)

Session V- (16:00-17:30): Maching Learning and Information Coding

Session Chairs: *Pr. Khalid Chougali* (ENSA, UIT, Kenitra, Morocco) / *Pr. Younes Chichab* (LaRILab, EST, UIT, Kenitra, Morocco)

Paper: #19: "Proposed of a sentiment analysis system based on machine learning algorithms",

Jihad El Hadi and Younes Chihab (LaRI Lab, FS, UIT, Kenitra, Morocco)

Paper: #20: "Deep Transfer learning for image classification", Imane Bouchnafa and Mohamed Amnai

(LaRILab, FS, UIT, Kenitra, Morocco)

Paper: #21: "Reading about polar codes", Mustapha Hilia¹, Fouad Ayoub² and Khalil Ibrahimi¹ (¹LaRI Lab, FS, UIT, Kenitra, Morocco, ² LAREAMI Lab, CRMEF, Kenitra, Morocco)

Paper: #22: "Big Data Processing And Analysis For Traffic Flow Estimation And Prediction In Internet Of Vehicles", Idriss MOUMEN, Jaafar ABOUCHABAKA and Najat RAFALIA (LaRI Lab, FS, UIT, Kenitra, Morocco)

Paper: #23: "Fractal analysis of medical images Application to the MRI AND CT-SCAN image of cancer", Fatima Ghazi¹, Fouad Ayoub² and Khalil Ibrahimi¹ (¹LaRI Lab, FS, UIT, Kenitra, Morocco, ² LAREAMI Lab, CRMEF, Kenitra, Morocco)

Paper: #24: "Sentiment Analysis using Deep Learning Methods", Oumayma Bouhamidi¹, Mounir AitKerroum² (¹LaRI Lab, FS, UIT, Kenitra, Morocco, ²LaRI Lab, ENCG, UIT, Kenitra, Morocco)

Paper: #25: "Enhancement of Datawarehouse by Query Optimization", TALHANE FATIMA and AMNAI MOHAMED (LaRI Lab, FS, UIT, Kenitra, Morocco)

Closing Speech - (17:30-18:00)

Chairs : *Pr. Youssef Fakhri* (LaRI Lab, FS, UIT, Kenitra, Morocco) / *Pr. Khalil Ibrahimi* (LaRI Lab, FS, UIT, Kenitra, Morocco)

