# Invited Keynote Speakers

جامعة سطيف 1 - فرحات عباس

**Setif 1 University - Ferhat ABBAS**

## Faculty of Sciences

### Computer Science Department

**PAIS**

## IEEE 5th International Conference on Pattern Analysis and Intelligent Systems
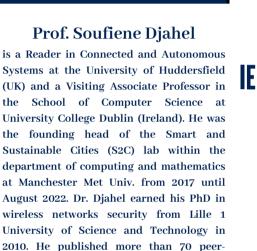
# PAIS'23

### Prof. Fethi Rabhi

is a Professor in the School of Computer Science and Engineering at the University of New South Wales (UNSW) in Australia. He has held important positions in several major research initiatives including Program Manager in the Capital Markets Cooperative Research Centre (CMCRC), Research Leader in a large DEST (part of Australian Government) Innovation Science Linkage grant, and lately Research Leader in the New Financial Services project which was part of Smarts Services Cooperative Research Centre.

### Prof. Soufiene Djahel

is a Reader in Connected and Autonomous Systems at the University of Huddersfield (UK) and a Visiting Associate Professor in the School of Computer Science at University College Dublin (Ireland). He was the founding head of the Smart and Sustainable Cities (S2C) lab within the department of computing and mathematics at Manchester Met Univ. from 2017 until August 2022. Dr. Djahel earned his PhD in wireless networks security from Lille 1 University of Science and Technology in 2010. He published more than 70 peer-reviewed research articles in international journals and conferences.

### Prof. Abdelouahab Moussaoui

is a teacher/researcher at Ferhat Abbas Sétif 1 University in Sétif, Algeria, where he obtained the rank of Full Professor in 2011. He earned a Ph.D. in artificial intelligence and medical imaging from Ferhat Abbas University, Algeria, in 2005. He is referenced in several renowned international journals such as Springer and Elsevier. His research focuses on the fields of machine learning, deep learning, clustering algorithms, and applications of multivariate image classification in biological and medical domains.

## Conference website

SCAN ME

**October, 25-26**

**Auditorium Mouloud Kacem Nait Belkacem, Ferhat Abbas Sétif 1 University, Algeria**

# Conference Program

## First Day : Wednesday, 25 October

| Time | Event |
|---|---|
| 8h00 - 8h30 | Registration |
| 8h30 - 9h15 | Opening Ceremony |
| 9h15 - 9h30 | Coffee Break |
| 9h30 - 11h | Plenary Session |

### Prof. Fethi Rabhi : Moving AI Beyond Data Science for Industry Applications

## First Sessions : 11h - 12h 30

### 📅 11h - 11h30

| Room | Paper Title |
|---|---|
| R1 | Rafika Benladghem; Hadjila Fethallah; Belloum Adam<br>*A Pareto-Optimal Privacy-Accuracy Settlement For Differentially Private Image Classification* |
| R2 | Kamir Kharoubi; Cherbal Sarra<br>*Machine learning solutions for securing IoT-based healthcare: A survey* |
| R3 | Aliouat Wahiba ; Badis Lamis; Bouchiba Kenza<br>*Metaheuristic-based automated design of Convolutional Neural Network architecture for plant seedlings classification* |
| R4 | Chemini Nawal; Hioual Ouassila ; Hemam Sofiane Mounine<br>*Semantic interoperability in Electronic health Record System Based on Blockchain Technology: a Survey* |

### 📅 11h30 - 12h

| Room | Paper Title |
|---|---|
| R1 | Tarek Nouioua<br>*Quantum Computing Empowers Image Processing and Artificial Vision: Unleashing a New Era of Innovation through Advanced Quantum Physics* |
| R2 | Daikha Mohammed Lmine; boukharrou radja; Chaouche Ahmed-Chawki<br>*A Decentralized Negotiation-based Protocol for Cooperative Smart-Environments* |
| R3 | Hamdi Skander; Moussaoui Abdelouahab; Laouarem Ayoub; Berrimi Mohamed; Oussalah Mourad; Chabane Mafaza<br>*Uncovering Linguistic Patterns: Exploring Ensemble Learning and Low-Level Features for Identifying Spoken Arabic, English, Spanish, and German* |
| R4 | Khababa Ghizlane; Harun Nor Hazlyna; Bessou Sadik; Ning Chu Sin; Ning Ooi Poa<br>*Enhancing Spam Email Classification using Multilayer Perceptron: Performance Analysis and Comparative Evaluation* |

### 📅 12h - 12h30

| Room | Paper Title |
|---|---|
| R1 | Aid Aicha; Haddouche Ahcene; Rabia Ikram<br>*Transformer-Based Question Answering Model for the Biomedical Domain* |
| R2 | Djekidel Malak Safa; Habib Manel; Kerrache Chaker Abdelaziz; Calafate Carlos<br>*Towards an Efficient in-Network Caching Using Federated Learning* |
| R3 | Agti Nadia; Sabri Lyazid; Kazar Okba; Chibani Abdelghani<br>*Stream Reasoning approach on Human Behavior for Medication Risks Detection using LARS Framework* |
| R4 | Berchi Rahma; Louail Lemia; Cherbal Sarra<br>*Security Issues in Cloud-based IoT Systems* |

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| Time | Event |
|---|---|
| 12h30 - 13h30 | Lunch |
| 13h30 - 15h | Plenary Session |

### Prof. Abdelouahab Moussaoui : The AI Triangle: Deep Explorations of Models, Data and Semantics

| Time | Event |
|---|---|
| 15h - 15h30 | Coffee Break |

## Second Sessions : 15h30 - 17h

### 📅 15h30 - 16h

| Room | Paper Title |
|---|---|
| R1 | Soualmi Abdallah; Alti Adel; Laouamer Lamri<br>*A New Blind Watermarking Method for Color Images Authentication* |
| R2 | Bekkair Abdelfateh; Ouladnaoui Slimane; Bellaouar Slimane; Krimat Rababe Roumaissa; Haddaoui Alla<br>*CNN-based Community Detection: A Comparison Study* |
| R3 | Malti Arslan N; Benmmar Badr; Hakem Mourad<br>*Task Scheduling Optimization in Cloud Computing: A Comparative Study Between Flower Pollination and Butterfly Optimization Algorithms* |
| R4 | Hireche Rachida; Mansouri Houssem; Harbi Yasmine; Pathan Al-Sakib Khan<br>*Lightweight Mutual Authentication and Key Agreement Scheme for Wearable Devices in Fog-enabled WBAN* |

### 📅 16h - 16h30

| Room | Paper Title |
|---|---|
| R1 | Abada Lyes; Malki Omar Chouaab; Mekkaoui Mohamed; Aouat Saliha<br>*Three-dimensional photometric stereo reconstruction by shadow elimination* |
| R2 | Nadia Zerguine<br>*Int-BEB: Enhanced Binary Exponential Backoff using Q-learning* |
| R3 | Oudina Z; Dib A;Derdour M; Aouidate - Tachouche A<br>*Model Based System Engineering for trust SCADA and ICS Systems in Oil & Gas Industry* |
| R4 | Amine Boulemtafes; Abdelouahab Amira; Mohamed Saddek Derki; Samir Hadjar<br>*Investigating Security and Privacy Concerns in Deep-Learning-based Pervasive Health Monitoring Architectures* |

### 📅 16h30 - 17h

| Room | Paper Title |
|---|---|
| R1 | Djoudi Amina; Zaid Mohamed Amine; Guellouma Younes; Cherroun Hdda<br>*Genetic Convolutional Neural Networks Approach for Disease Detection From Chest X-Ray Images* |
| R2 | Lacene Belinda; Irnatene Dahbia; Chouiref Zahira<br>*A Hybrid Artificial Intelligence Approach for Early Stroke Prediction* |
| R3 | Boustil Amel; Tabet Youcef<br>*Web APIs composition based on Knowledge Graph Word Embedding and Entity Linking* |

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## Second Day : Thursday, 26 October

## First Sessions : 8h30 - 10h

### 📅 08h30 - 9h

| Room | Paper Title |
|---|---|
| R1 | Bouarroudj Riadh; Souami Feryel ; Bellala Fatma Zohra<br>*Fragile watermarking for medical image authentication based on DCT technique* |
| R2 | Benrebbouh chahrazed; Mansouri Houssem; Cherbal Sarra; Louail Lemia<br>*Enhancing Security and Authentication in IoT-based Energy Internet using Post-Quantum Blockchain* |
| R3 | Harbouche K; Khentout C; zenbout I; Smaani N; Sinacer K<br>*Towards Deep Supervised Features learning' clustering based using Convolutional neural network for item to knowledge mapping in Educational Data* |
| R4 | Ilyes Hamimid; Nouioua Farid; Boutouhami Sara; Houamed Mouna; Abbou Mebarka<br>*Extracting Gradual Periodic Patterns From Transactioanl Databases: Application to Felonies and Misdemeanors Data* |

### 📅 09h- 9h30

| Room | Paper Title |
|---|---|
| R1 | Maaref Zineb; Attia Abdelouahab; Belhadj Foudil<br>*Generating Cancelable Multispectral Palmprint templates based on Cartesian Transformation* |
| R2 | Asma Benmohammed; Merniz Salah<br>*Overall Delay analysis of Active reliable multicast protocols in wireless mesh networks* |
| R3 | Bellaouar Slimane; Nehar Attia; Souffi Soumia; Bouameur Mounia<br>*Dhati: a Fine-tuned Large Language Model for evaluating Subjectivity in Arabic Textual Data* |
| R4 | Lefkir Mira; Nouioua Farid; Fournier-Viger Philippe<br>*Heuristic approaches for hiding sensitive frequent itemsets in uncertain databases* |

### 📅 09h30 - 10h

| Room | Paper Title |
|---|---|
| R1 | Refoufi Salim; Sid M; Heraoua Y; Kara R; Guezzout F; Laghmara Y<br>*Comparative intelligent Navigation of Pioneer Mobile Robot using laser and camera sensors* |
| R2 | Zerrouki Hayet; Samira Moussaoui; Noureddine Haouari<br>*A QoE aware Clustering MAC protocol for Internet of Vehicles (QoEC-MAC)* |
| R3 | Mediani Chahrazed; Harous Saad; Djoudi Mahieddine<br>*Content-Based Recommender System using Word Embeddings for Pedagogical Resources* |

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| Time | Event |
|---|---|
| 10h- 10h30 | Coffee break |
| 10h30 - 12h | Plenary Session |

### Prof. Sofiane Djahel : Towards Fast and Robust Authentication in BAN-enabled Smart Healthcare

### 12h - 13h : Closing Ceremony & Lunch