

**Conference Program SITA'20**  
**September 23 and 24, 2020 INPT, Rabat.**

**DAY 1 : WEDNESDAY SEPTEMBER 23TH, 2020**

**9H-10H OPENING CEREMONY**

[Room LINK](#)

-M. Ministre de Ens. Sup.      - M. Ministre de l'Industrie      -M. DG ANRT  
- Directrice CNRST      - M. Président de Univ. Med V      - Mme Présidente de Univ. H2  
- Doyen FST Mohammedia - Directeur EMI      - Directrice ENSIAS - Directeur INPT  
- Président AMSI et Membre Comité Permanent SITA

**10H-10H45 KEYNOTE I**

**Moderator: M. Ramdani**

[Room LINK](#)

**About Explainable A.I.**

**Pr. Bernadette Bouchon-Meunier**, Director of Research Emeritus at CNRS, LIP6, Sorbone University.

**10H45-12H SESSION 1.1**

**DECISION MAKING AND SIMULATION 1**

**Moderator : A. Idri, O. El Beqqali**

**RCAR Framework: Building a Regularized Class Association Rules Model in a Categorical Data Space**, Azmi Mohamed and Abdelaziz Berrado

**Towards Amazon Fake Reviewers Detection: The Effect of Bulk Users**, Youssef Esseddiq and Nouredine Kerzazi

**ECG-based Arrhythmia Classification & Clinical Suggestions: An Incremental Approach of Hyperparameter Tuning**, Mohamed Adel Serhani, Alramzana Nujum Navaz, Hany Al Ashwal and Nabeel Al-Qirim

**Towards mining Semantically Enriched Configurable Process Models**, Aicha Khannat, Hanae Sbai and Laila Kjiri

**Multi-Label Classification: A Novel approach using decision trees for learning Label-relations and preventing cyclical dependencies**, Hamza Lotf and Mohammed Ramdani

**12H-13H SESSION 1.2**

**BIG DATA & ADVANCED ANALYTICS**

**Moderator : Kh. Letrache, N. C. Benabdellah**

**A Frequency-Category Based Feature Selection in Big Data for Text Classification**, Houda Amazal, Mohammed Ramdani and Mohamed Kissi

**SPM: Preparing Hierarchical Data Structures for Schema Matching**, Aola Yousfi, Moulay Hafid Elyazidi and Ahmed Zellou

**Towards a Data Quality Assessment in Big Data**, Oumaima Reda, Imad Sassi, Ahmed Zellou and Samir Anter

**Democracy in the time of social media: towards a standard**, Abderrazzak Cherkaoui, Omar El Beqqali and Salim Alami

**LUNCH BREAK**

**14H-15H KEYNOTE II**

**Moderator : M. Bellafkih**

[Room LINK](#)

**A.I. for Face Analysis and Generation**

**Pr. Mohamed Daoudi**, IMT Lille Douai, CRISTAL Laboratory (UMR CNRS 9189).

**15H-16H SESSION 1.3**

**SMART E-LEARNING 1**

**Moderator : A. Naji, A. Haddi**

**Recommender System to Support MOOCs Teachers: Framework based on Ontology and Linked Data**, Hanane Sebbaq and Nour-Eddine El Faddouli

**The hybrid recommendation of digital educational resources in a distance learning environment : the case of MOOC**, Hamid Slimani, Hamal Oussama, Nour-Eddine El Faddouli, Samir Bennani and Naila Amrous

**Online Adaptive learning: Review, limitations and recommendations**, Jallal Talaghzi, Abdellah Bennane, Aziza Benomar and Mohammed Majid Himmi

**Automatic Prediction Of Learning Style Based On Prior Knowledge Using IRT And FSLM**, Samia Rami, Samir Bennani and Mohammed Khalidi Idrissi

#### 16H05-17H05 SESSION 1.4

##### **DECISION MAKING AND SIMULATION 2**

**Moderator : H. Benbrahim, M. Hamlich**

**Predicting Ships Estimated Time of Arrival based on AIS Data**, Sara El Mekkaoui, Loubna Benabbou and Abdelaziz Berrado

**Evaluating Ongoing Decision Support System: A case study**, Khaoula Boukhayma, Mohammed Abdou Janati Idrissi and Lamia Benhiba

**An implementation of a multivariate discretization for supervised learning using Forestdisc**, Haddouchi Maissae and Berrado Abdelaziz

**Evaluation of Classic Descriptors coupled to Support Vector Machine Classifier for Phosphate ore Screening monitoring**, Laila El Hiouile, Ahmed Errami, Nawfel Azami, Radouane Majdoul and Laurent Deshayes

#### 17H15-18H15 SESSION 1.5

##### **DECISION MAKING AND SIMULATION 3**

**Moderator : A. Belmekki, A. Baina**

**Comparison of MCDM Methods for Multi-Echelon Inventory System Selection Problem**, Nouçaiba Sbai, Loubna Benabbou and Abdelaziz Berrado

**Multi Level interdependencies Management for resilience in Critical Infrastructures**, Ouafae Kasmi, Amine Baina and Mostafa Bellafkih

**A novel interpretable model for solar radiation prediction based on adaptive fuzzy clustering and linguistic hedges**, Khalid Bahani, Hamza Ali-Ou-Salah, Moujabbir Mohammed, Benyounes Oukarfi and Mohammed Ramdani

**Neural networks for learning and analyzing preferences for multi-criteria services**, Imane Haddar, Brahim Raouyane and Mostafa Bellafkih

#### 18H15-18H45 SESSION 1.6

##### **NETWORKING AND TELECOMMUNICATIONS 1**

**Moderator : B. Raouyane, M. Lahby**

**Design and Development of a Microstrip Patch Antenna Array for Rectenna System**, Salah Ihlou, Hafid Tizyi, Abdelmajid Bakkali, Ahmed El Abbassi and Jaouad Foshi

**Self-tuning PID of the solenoid response based on a squeezer fiber**, Zahidi Abdellah, Amrane Said, Azami Nawfel and Nasser Naoual

#### 18H45-19H15 SESSION 1.7

##### **SMART E-LEARNING 2**

**Moderator : A. Zellou**

**Detecting the Learner's Motivational State in Online Learning Situation: Towards Adaptive Learning Environments**, Mohammed Amraouy, Abdellah Bennane, Aziza Benomar, Mohammed Majid Himmi and Jallal Talaghzi

**Recommender E-Learning platform using sentiment analysis aggregation**, Jamal Mawane, Naji Abdelwahab and Mohammed Ramdani

## DAY 2 : THURSDAY SEPTEMBER 24TH, 2020

### 9H-10H KEYNOTE III

Moderator : A. Berrado [Room LINK](#)

**Smart Connected Health : Trends, Technologies and Key Challenges,**  
Pr. Adel Serhani, UAE University

### 10H-11H45 SESSION 2.1

#### LANGUAGE PROCESSING

Moderator : A. Yousfi, M. Kissi

**Construction of an accurate automatic lexicon for Arabic sentiment analysis,** Ibtissam Touahri and Azzeddine Mazroui

**Construction of a database for speech recognition of isolated Arabic words,** Ahmed Boumehdi and Abdellah Yousfi

**Comparison between the morphological analyzers based on graph and the one based on surface patterns,** Iazzi Said, Yousfi Abdellah and Bellafkih Mostafa

**Comparative study of Arabic text categorization using feature selection techniques and four classifier models,** Bahassine Said, Abdellah Madani and Mohamed Kissi

**Language representation learning models: A comparative study,** Sanae Achsas and El Habib Nfaoui

**K-means, HAC and FCM. Which clustering approach for Arabic text?** Lahbib Ajallouda, Fatima Zahra Fagroud, Ahmed Zellou and El Habib Benlahmar

**An Efficient Lightweight Algorithm for Automatic Identification of Meters in Arabic Poetry,** Karim Baina and Hamza Moutassaref

### 11H45-13H30 SESSION 2.2

#### MACHINE LEARNING AND APPLICATIONS

Moderator : A. Bekkhoucha, E. Nfaoui

**SHAMan: an intelligent framework for HPC auto-tuning of I/O accelerators,** Sophie Robert, Soraya Zertal and Gael Goret

**State of the art of Fairness, Interpretability and Explainability in Machine Learning: Case of PRIM,** Rym Nassih and Abdelaziz Berrado

**Deep Learning Approach for Forecasting Athletes' Performance in Sports Tournaments,** Hadeel El-Kassabi, Khaled Khalil and Mohamed Adel Serhani

**Bank Failure Prediction: A Deep Learning Approach,** Youness Abakarim, Lahby Mohamed and Abdelbaki Attioui

**Business Process Modelling Augmented - Model Driven transformation of User Stories to Processes,** Karim Baina, Mahmoud El Hamlaoui and Hibatallah Kabbaj

**Customer Segmentation With Machine Learning: New Strategy For Targeted Actions,** Lahcen Abidar, Dounia Zaidouni and Abdeslam Ennouaary

**Use of formative assessment to improve the online teaching materials content quality,** Zarqtouni Maryem, Haddi Adil and Allali Hakim

### LUNCH BREAK

### 14H30-15H30 SESSION 2.3

#### **NETWORKING AND TELECOMMUNICATIONS 2**

**Moderator : A. Tribak, A. Errais**

**OMT design based on Boifot Orthomode junctions for satellite communication applications in the Ku band,** Abdellah El Kamili, Abdelwahed Tribak, Jaouad Terhzaz and Angel Mediavilla

**Latent Graph Predictor Factorization Machine (LGPFM) for modelling feature interactions weight,** Abdessamad Chanaa and Nour-Eddine El Faddouli

**Optimized Switch-Controller Association For Data Center,** Mohamed Janati Idrissi and Mohammed Raiss El Fenni

**Tunable Monopole Antenna in the Sub-6 GHz Spectrum for Picocell Base Stations,** Aicha Bembarka, Abdelwahed Tribak, Hamza Nachouane and Larbi Setti

### 15H30-16H30 SESSION 2.4

#### **SECURITY AND NETWORKING**

**Moderator : M. Belmekki, B. Raouyane**

**A Qualitative-Driven Study of Irreversible Data Anonymizing Techniques in Databases,** Siham Arfaoui, Abdelhamid Belmekki and Abdellatif Mezrioui

**Data Flooding Intrusion Detection System for MANETs Using Deep Learning Approach,** Oussama Sbai and Mohamed Elboukhari

**Evaluation of security risks using Apriori algorithm,** Wissam Abbass, Amine Baina and Mostafa Bellafkih

**Security Challenges of Wireless Body Area Networks: Threats and Solutions,** Boukri Khalil, Najib Naja and Elmostafa Belmekki

### 16H45-17H45 SESSION 2.5

#### **SOFTWARE ENGINEERING**

**Moderator : L. Cheikhi, O. Beggar**

**Test Generation Tool for Modified Condition/Decision Coverage: Model Based Testing Approach,** Mounia Elqortobi, Amine Rahj, Jamal Bentahar and Rachida Dssouli

**Identifying Software Cost Attributes of Software Project Management in Global Software Development: An Integrative Framework,** Manal El Bajta and Ali Idri

**Business Intelligence and SOA based architecture for e-government system interoperability,** Oumkaltoum Barakat and Omar Elbeqqali

**A Review of Open Source Software Maintenance Effort Estimation,** Chaymae Miloudi, Laila Cheikhi and Ali Idri

### 17H45-18H30 SESSION 2.6

#### **INTERNET OF THINGS & NETWORKING**

**Moderator : S. Bah**

**Analysis and evaluation of communication Protocols for IoT Applications,** Sidna Jeddou, Amine Baina, Abdallah Najid and Hassan El Alami

**Smart Energy Management for Fog-Enabled IoT Network,** Salah Eddine Essalhi, Mohammed Raiss El Fenni and Houda Chafnaji

**ARG-RPL: Arrangement Graph-, Region-Based Routing Protocol for Internet of Things,** Abdellatif Serhani, Najib Naja and Abdallah Jamali

### 18H30 CLOSING CEREMONY

### AWARDS AND CLOSING