Tunisian Algerian Conference on Applied Computing
(TACC 2021)

LABEX-TA Workshop on SoS Architectures
(SoSAA 2021)

18 – 20 December 2021
Tabarka, Jendouba, Tunisia

Program

Saturday, 18 December 2021

14h00 – 16h00	Welcoming participants
16h00 – 16h30	Coffee break
16h30 – 17h30	International Projects Presentations: HEALING, MedSNAIL, and CELAVIE SOSAA Workshop and LABEX-TA meetings

Sunday, 19 December 2021

08h45 –09h00	Opening
09h00 – 10h00	Invited Speaker Elyes Lamine, JFC University, France
10h00 – 11h30	Session 1
11h30 – 12h00	Coffee break
12h00 – 13h30	Session 2
13h30 – 14h30	Lunch
14h30 – 16h00	Session 3 - Online

Monday, 20 December 2021

09h00 – 10h00	Invited Speaker Leila Ben Ayed, University of la Manouba, Tunisia
10h00 – 10h30	Coffee break
10h30 – 12h00	Session 4
12h00 – 12h30	Cloture & Discussion
12h30 – 14h00	Lunch
14h00	Departure

Session 1: Data Science and Analysis

Session chair: Prof. Hatem Hadj Kacem

Abdelaziz Triki, Bassem Bouaziz, Jitendra Gaikwad and Walid Mahdi.
A deep learning-based approach for segmenting and counting reproductive organs from digitized herbarium specimen images using refined Mask Scoring R-CNN

Siwar Nadhri, Maryam Elamine and Lamia Hadrich Belguith.
Automatic evaluation of existing plagiarism detection tools

Yosr Sahnoun, Mariam Chaabane and Ismael Bouassida Rodriguez.
Social media influence analysis Techniques Systematic Literature Review

Rahma Maalej, Nabil Khoufi and Chafik Aloulou.
Parsing Arabic using deep learning technology

Houssem Aloulou, Hamdi Aloulou, Bessam Abdulraak and Ahmed Hadj Kacem.
A persuasive system to improve physical activities of older adults

Session 2: Business Process & Digital Transformation

Session chair: Prof. Ahmed Hadj Kacem

Amal Abid, Saoussen Cheikhrouhou, Slim Kallel and Mohamed Jmaiel.
Temporal Constraints in Smart Contract-Based Process Execution: A Case Study of Organ Transfer by Healthcare Delivery Done

Najla Fattouch, Imen Ben Lahmar and Khouloud Boukadi.
A comprehensive architecture for an IoRT-aware Business Process outsourcing into Fog and Cloud computing

Zakaria Maamar, Saoussen Cheikhrouhou and Said Elnaffar.
A Data-based Guiding Framework for Digital Transformation

Mouna Rekik, Fourati Manel and Boukadi Khouloud.
Business process implementation through SaaS services composition

Mohamed Hedi Fourati, Saoussen Cheikhrouhou, Slim Kallel and Mohamed Jmaiel.
TUNisia-Italy Cross-Border Environment Net platform for emergency response (NETTUNIT): project presentation and early results

Session chair: Prof. Faiza Belala

Moez Krichen.
Testing Timed Systems Using Determinization Techniques for One-Clock Timed Automata

Staifi Noureddine and Belguidoum Meriem.
ML-SLA-IoT: a Multi-Level SLA Specification Language for IoT Applications

Ayoub Bouheroum, Djamel Benmerzoug, Sofiane Mounine Hemam and Faiza Belala.
From CA-BRS to BPMN: Formal Approach for Modeling Adaptive Security in Cyber-Physical Systems

Besma Ezeli and Hichem Talbi.
Improvement of Differential Evolution with Multipopulation-based Ensemble of Mutation Strategies

Sahar Smaali and Rachida Boucebsi.
Towards Metamodeling approach For IoT based System of Systems

Session 4: Health care system and Smart cities

Session chair: Prof. Mohamed Jmaiel

Jiddou Youssouf, Rawya Mars, Saoussen Cheikhrouhou and Mariem Turki.
Towards a Blockchain-based approach to fight drugs counterfeit

Abdessamad Saidi, Mohamed Hadj Kacem, Imen Tounsi and Ahmed Hadj Kacem
A Meta-Modeling Approach to Describe Internet of Things Architectures

Imen Abdennadher, Ismael Bouassida Rodriguez and Olfa Awled Al Hadj Abdalah.
A deployment approach for Smart Building applications

Mouna Rhaiem, Mariam Chaabane and Ismael Bouassida Rodriguez.
Position Paper: Considering the air quality service as a system in the smart city System-of-Systems

Partners