Multi-Conference OCTA on: *"Organization of Knowledge and Advanced Technologies."*

Unifying the scientific contributions of the following conferences:
SIIE'2019 & ISKO-Maghreb'2019 & CITED'2019 & TBMS'2019

February 6-7-8, 2020 Tunis (ALECSO) – Tunisia. *https://multiconference-octa.loria.fr/*

Thursday, Feb. 6 th., 2020
8h00-9h00 : Welcome and Registration

9h00-10h30 : Conference opening & Welcome inauguration

Chair of inauguration: Pr. Habib SIDHOM (President University of Tunis, Tunisia)

- **Presidents of Conferences: OCTA, SIIE, ISKO-Maghreb, CITED and TBMS**
- **& Honorary Personalities**

10h30-11h00: coffee break

11h00-12h30 : Plenary Conferences

Chair: Prs. Khaled KCHIR (V-P. University of Tunis) & Salah Hannachi (Ex-Ambassadeur de la Tunisie au Japon & Président de ATLAS)

20' Speech
Guest & Affiliation: **SE. M. L'ambassadeur de la Corée du Sud en Tunisie**   Title: **"Transfert de Technologies: Expérience Coréenne du Sud" et Accord de coopération avec la Tunisie.**
20' Speech
Guest & Affiliation: **SE M L'ambassadeur de l'Inde en Tunisie**   Title : **"Initiative Solaire mondiale de l'Inde".**
20' Speech
Guest & Affiliation: **Pr. Chedly Abdelly (ANPR Tunisia)**   Title: **L'Agence Nationale de la Promotion de la Recherche en Tunisie : acquis et perspectives.**

+10' Open discussion with the audience & Synthesis.

12h45-14h00: Lunch

14h00-15h30 : Plenary Conferences & Industrial Panel

Chair: Prs. Abdelkrim MEZIANE (CERIST and ISKO-Maghreb, Algeria) & Sahbi SIDHOM (University of Lorraine and ISKO-Maghreb, France)

TOPIC: Digitization, Advanced Technologies and Energy, Sustainable Development. / *Digitalisation, Technologies Avancées et Energie, Développement Durable.*
20' Speech Guest & Affiliation: **M. Jawher Ferjaoui, CEO - La Poste (Tunisia)** Title: **Digitization of postal services / Digitalisation des services de la Poste.**
20' Speech Guest & Affiliation: **Pr. Craig BOLJKOVAC, Tshingua university - Senior Advisor (ONU - Basel and Stockholm Committee), Canada** Title: **Energy and Environment.**
20' Speech Guest & Affiliation: **CEO of Huawei in Tunisia** Title: **5G Perspective for research, Tunisian and African economy.**
20' Speech Guest & Affiliation: **Pr. Tahar JEBARI, Expert en T.I.C. et ancien conseiller à la présidence de la république en T.I.C. (1992-2002).** Title: **Quantum Physics and promising applications.** / **Physique Quantique et ses prometteuses applications.**

+10' Open discussion with the audience & Synthesis.

15h30-16h00 : coffee break

16h00-18h00 : Parallel sessions of Authors

Session A1: Information System & Applications
Chair: Pr. Jamel Belhadj (ENSIT, University of Tunis, Tunisia)

SIIE		
	(20' presentation +2' discussion) per Paper + 10' Synthesis by Chair	
1	Nasreddine Ouertani, Hajer Ben-Romdhane, Issam Nouaouri, Hamid Allaoui and Saoussen Krichen (**Tunisia**)	A Hybrid Method for the Medical Waste Transportation : Real Case Study
2	Oussama Kebir, Issam Nouaouri, Mouna Belhaj, Lamjed Ben Said and Kamel Akrout (**Tunisia & France**)	A Multi-agent architecture for modeling organizational planning against terrorist attacks in urban areas
3	Seif Eddine Toumi and Foued Nafti (**Tunisia**)	The genesis of the diophantine equation in Arabic mathematics
4	Djamila Bouhalouan and Abdelkader Adla (**Algeria**)	A Decision Support System for Steel Bending Machines Maintenance

Session B1: Information & Social Network
Chair: Pr. *Zied Elouedi (ISG, University of Tunis, Tunisia)*

ISKO		
(20' presentation +2' discussion) per Paper + 10' Synthesis by Chair		
1	Marilou Kordahi (**France**)	Social networking application, visual communication system for the protection of personal information
2	Marc Tanti (**France**)	Quelle utilité des réseaux sociaux pour l'analyse des épidémies? L'exemple de Tweeter pour le suivi de l'épidémie d'Ebola 2018-2019 en Afrique
3	Hammou Fadili (**France**)	Deep learning of latent textual structures for the normalization of Arabic writing.
4	Zina Nakhla and Nouira Kaouther (**Tunisia**)	ADETermino: a Platform to Construct Adverse Drug Events Corpus from MEDLINE Towards ADE Ontology Enrichment
5	Imen Gmach	Vers une nouvelle approche de processus de systèmes de recommandation

Session C1: Sustainable Development and Decision-Making
Chair: Pr. *Ezzeddine Zagrouba (Vice-président Université Virtuelle de Tunis (UVT), Tunisia)*

CITED		
(20' presentation +2' discussion) per Paper + 10' Synthesis by Chair		
1	Tarek Hamdouche and Omar Bendjeghaba (**Algeria**)	A combined fault location methodology for radial power distribution systems
2	Kamel Belkadhi, Habib Wenish, Hichem Osman and Ilyes Ahmed (**Tunisia**)	FarmerAid
3	Amna Zbouna and Amira Kaddour (**Tunisia**)	L'administration tunisienne à l'épreuve des nouvelles technologies
4	Karam Ammar and Nessrine Jebari (**Tunisia**)	Techniques de traitement et de reconnaissance d'IRM cérébrale

Session D1: Data, Humanity & Artificial Intelligence
Chair: Pr. *Kaouther Nouira (ISG, University of Tunis, Tunisia)*

CITED & ISKO		
(20' presentation +2' discussion) per Paper + 10' Synthesis by Chair		
1	Amira Kaddour, Mariem Maazi and Nour Dridi (**Tunisia**)	La transition green et digitale : une question de culture et de valeur
2	Houssem Eddine Ben Smida, Saoussen Krichen and Francisco Chicano (**Tunisia & Spain**)	Iterated Granular Neighborhood Algorithm for Multidepot Taxi Sharing Problem
3	Lamia Zouhaier, Yousra Ben Daly Hlaoui and Leila Ben Ayed (**Tunisia**)	Artificial Intelligence's Impacts in Disablity Human Life: Perspectives

4	Nassima Ben Hariz, Hela Khoufi and Ezzeddine Zagrouba (**Tunisia & Saudi Arabia**)	OWA Operator for Missing Data Imputation

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Friday, Feb. 7^{th,}, 2020

8h00-9h00 : Welcome and Registration / Accueil et Inscriptions

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9h00-10h30 : Plenary Conferences & Academic Keynotes

Chair: Pr. **Nahla Ben Amor (ISG, University of Tunis, Tunisia)**

35-40' Keynote speech + 5-10' Discussion.

> *Title*: **Knowledge Intensive Explorative Business Processes: Towards Smarter Services**
> **Guest speaker : Pr. Lamia EL ABED, University of Tunis (ISG), Tunisia.**
>
> **Discussion**

Chair: **Pr. Jameleddine Chichti (ESC, University of Manouba Tunisia & University of Montpellier France)**

35-40' Keynote speech + 5-10' Discussion.

> *Title*: **Education 4.0: How can Educators meet Industry 4.0 and today's Learners?**
> **Guest speaker : Pr. Ilham KALLEL, University of Sfax (ISIMS), Tunisia.**
>
> **Discussion**

10h30-11h00: coffee break

11h00-13h00 : Parallel sessions of Authors

Session A2: Data Analysis & Decision-Making
Chair: Pr. **Naceur Azaiez (TBS, University of Tunis, Tunisia)**

SIIE	
(20' presentation +2' discussion) per Paper + 10' Synthesis by Chair	
1	Irina Illina, Dominique Fohr and Ashwin Geet D'sa (**France**)	BERT and fastText Embeddings for Automatic Detection of Toxic Speech

2	Hiba Chaher, Lilia Rejeb and Lamjed Ben Said (**Tunisia**)		A behaviorist agent model for the simulation of the human behavior
3	Mariem Briki, Sabrine Ben Abdrabbah and Nahla Ben Amor (**Tunisia**)		HIGHLIGHTING THE USER'S PRIMARY CRITERION IN TEXT MINING-BASED RECOMMENDATION SYSTEMS
4	Olfa Ferchichi, Raoudha Beltaifa and Lamia Abed (**Tunisia**)		An ontological Rule-Based Approach for Software Product Lines Evolution

Session B2: Knowledge Organization & Applications
*Chair: Pr. **Marc TANTI** (Service de veille sanitaire du Centre d'épidémiologie et de santé publique des Armées, France)*

ISKO	& SIIE	
		(20' presentation +2' discussion) per Paper + 10' Synthesis by Chair
1	Yaiche Wahida and Yaiche Wahida (**Algeria**)	Journaling as a Reflective Practice to Develop EFL Teachers' Performance for Increased Learners' Autonomy in CALL Laboratories: Towards a New Outlook in Higher Education
2	Asma Abassi (**Tunisia**)	Le Monde arabe selon l'Institut du Monde Arabe : Outils numériques, gestion des connaissances et images construites
3	Samia Sbissi, Mariem Mahfoudh and Said Gattoufi (**Tunisia**)	A medical decision support system for cardiovascular disease based on ontology learning
4	Kawther Kaabi, Fathi Essalmi, Mohamed Jemni and Alaa Qaffas	Personalization of MOOCs for increasing the retention rate of learners
5	Souad Kamoun Chouk, Syrine Ben Dhraou, Maroua Hammami and Zeinb Ayari	Etat de la recherche sur la veille stratégique et l'intelligence économique dans le milieu académique Tunisien

Session C2: Green and Digital Transition
*Chair: Pr. **Jouhaina Chaouachi** (IHEC, University of Carthage, Tunisia)*

CITED	& ISKO	
		(20' presentation +2' discussion) per Paper + 10' Synthesis by Chair
1	Amira Kaddour and Jameleddine Chichti (**Tunisia**)	FinTech : a post crisis answer to increased financial institutions compliance obligations
2	Amira Kaddour and Yasmine Dakoumi (**Tunisia**)	ESG approach, the new perspective of financial analysis: challenges and limits for MENA region
3	Fadwa Srasra, Adnen Arbi and Amira Kaddour (**Tunisia**)	Financial risk assessment using neural network: case of Tunisian banking sector
4	Brahim Jaziri and Hamouda Samaali (**Tunisia**)	Webmapping for ecotourism development: Application in the Ichkeul national park (northern Tunisia)
5	Khouloud Derouiche and Khaled Kchir (**Tunisia**)	Des mosaïques antiques aux codex islamiques : continuité ou ruptures ?

Session D2: e-Learning, e-Education & Intelligent Systems
*Chair: Pr. **Hammou Fadhili** (CNAM Paris, France)*

SIIE   & ISKO

1	Olfa Harrabi and Jouhaina Siala (**Tunisia**)	A New Sum Coloring-based Integer Linear Programming For Solving The University Course Timetabling Problem
2	Ramzi Farhat, Yosra Mourali, Mohamed Jemni and Houcine Ezzedine (**Tunisia & France**)	An overview of Machine Learning Technologies and their use in E-learning
3	Noomen Selmi, Mohamed Hmiden and Lamjed Ben Said	Evolutionary algorithms for solving the multilocation and multi-item transshipment problem
4	Nasar Aldian Shashoa, Ibrahim Jleta, Omar Abusaeeda and Salah Naas (**Libya**)	Performance Evaluation of Exteneded Iterative Identification Algorithm Based on Decomposed (CARARMA) Systems
5	Walid Bayounes, Inès Bayoudh Sâadi and Hénda Ben Ghézala (**Tunisia**)	Definition Framework of Educational Process Construction Supported by an Intelligent Tutoring System

13h00-14h00: Lunch

14h00-15h30 : Plenary Conferences & Industrial Panel

Chair: Prs. Cheikh M. M. LO (ANRSA, Sénégal) & Anass EL-Haddadi (ISKO-Maghreb and ENSAH, Morocco)

TOPIC :   *Multidisciplinarity, Applied Research and Sustainable Development.. / Pluridisciplinarité, Recherche appliquée et Développement Durable.*   *20' Speech*
Guest & Affiliation: **SE M. Ambassadeur de la République populaire de Chine en Tunisie**   Title: **La recherche scientifique en Chine : Leader du classement mondial en2019**
20' Speech
Guest & Affiliation: **Mme. Saloua Abdelhak (Directrice du Centre Tunisien de la Culture Numérique, Tunisia)**   Title: **Culture Numérique et Patrimoines Matériel et Immatériel**
15' Speech
Guest & Affiliation: **Pr. Jamel Neji (ENIT, Tunisia)**   Title: **Urbustic**
15' Speech
Guest & Affiliation: **Pr. Salah Hanachi (Ex-Ambassadeur de la Tunisie au Japon & President de ATLAS, Tunisia)**   Title: **Pluridisciplinarité dans le traitement de la question du développement, durable**
15' Speech
Guest & Affiliation: **Pr. Cheikh M. M. LO, Agence nationale de la recherche scientifique appliquée (ANRSA), Sénégal.**   Title: **LA RECHERCHE APPLIQUEE AU SENEGAL : PERSPECTIVES.**

+5' Open discussion with the audience & Synthesis.

15h30-16h00 : coffee break

Session A3: Systems, Models and Processing Design
Chair: Pr. Anass EL-HADDADI (ENSAH El-Houceima, MOROCCO)

	SIIE	
		(20' presentation +2' discussion) per Paper + 10' Synthesis by Chair
1	Pedro Chavez Barrios, Davy Monticolo and Sahbi Sidhom (**Mexico & France**)	Results of multi-agent system and ontology to manage ideas and represent knowledge in a challenge of creativity
2	Hammou Fadili (**France**)	Semantic Mining Approach Based On Learning of An Enhanced Semantic Model For Textual Business Intelligenge in the Context of Big Data
3	Marilou Kordahi (**France**)	Social networking application, visual communication system for the protection of personal information
4	Nedra Ibrahim, Anja Habacha Chaibi and Henda Ben Ghézala (**Tunisia**)	Scientific watch based on information quality
5	Mohamed Fadhel Djlassi and Anissa Ben Hassine (**Tunisia**)	La contribution de la responsabilité sociale de l'entreprise a l'identification organisationnelle : étude exploratoire dans le contexte tunisien

Session B3: Data, Analysis & Intelligent Systems
Chair: Pr. Anis Nouairi (FSHST, University of Tunis, Tunisia)

	ISKO	
		(20' presentation +2' discussion) per Paper + 10' Synthesis by Chair
1	Malika Ben Khalifa, Zied Elouedi and Eric Lefevre (**Tunisia & France**)	An Evidential Spammer Detection based on the Suspicious Behaviors' Indicators
2	Safa Ben Ayed, Zied Elouedi and Eric Lefevre (**Tunisia & France**)	Managing uncertainty during CBR systems vocabulary maintenance using Relational Evidential C-Means
3	Nabila Chergui, Tahar Kechadi and Michael McDonnell (**Algeria & Ireland**)	The Impact of Data Analytics in Digital Agriculture: A Review.
4	Hadeel Huseen and Tahar Kechadi (**Soudan & Ireland**)	Data pre-processing of Web Log Mining Datasets
5	Dalila Kessira and Mohand-Tahar Kechadi (**Algeria & Ireland**)	Multi-objective Clustering Algorithm with Parallel Games

Session C3: Energy, Technology & Challenges
Chair: Pr. **Mehrez Chaher (ISG, University of Tunis, Tunisia)**

CITED		
(20' presentation +2' discussion) per Paper + 10' Synthesis by Chair		
1	Mariem Maazi, Dorra Lounissi and Amira Kaddour (**Tunisia**)	Energy consumption optimization in the case of an automotive industry
2	Maroua Ghram and Hela Moalla Frikha (**Tunisia**)	Criteria weight elicitation of fuzzy ARAS-H method for healthcare waste treatment technologies assessment
3	Mannoubia Affi (**Tunisia**)	GENERAL VARIABLE NEIGHBORHOOD SEARCH APPROACH FOR SOLVING THE ELECTRIC TWO-ECHELON VEHICLE ROUTING PROBLEM
4	Karam Ammar and Nessrine Jebari (**Tunisia**)	Techniques de traitement et de reconnaissance d'IRM cérébrale
5	Fadwa Srasra, Adnen Arbi and Amira Kaddour (**Tunisia**)	Financial risk assessment using neural network: case of Tunisian banking sector

Session D3: Optimization, Diagnosis & Decision-Making
Chair: Pr. **Amel Guizani (FSHST, University of Tunis, Tunisia)**

CITED & ISKO		
(20' presentation +2' discussion) per Paper + 10' Synthesis by Chair		
1	Amal Saadi (**Tunisia**)	Optimisation du drainage routier en relation avec la sécurité routière.
2	Sameh Ghallabi, Fathi Essalmi, Mohamed Jemni and Kinshuk Kinshuk	Combination of personalization parameters based on fuzzy logic in the cloud
3	Fedia Daami Remadi and Hela Moalla Frikha (**Tunisia**)	The Triangular Intuitionistic Fuzzy Extension of the CODAS Method for Solving Multi-Criteria Group Decision Making
4	Yosra Bouzid and Mohamed Jemni (**Tunisia**)	Avatar technology for the educational support of deaf learners: A Review

Session P1 : Posters / Communications Affichées
Chairs: Prs. **Raja Fenniche (ISD, University of Manouba, Tunisia) & Faker Klibi (ESSEC, University of Tunis, Tunisia)**

P1		
Moderation by Chair: (20' presentation & discussion) per Poster		
ISKO		
1	Nabil Khemiri and Sahbi Sidhom (**Tunisia & France**)	De l'indexation intellectuelle à l'indexation automatique à l'ère des Big Data et Open

		Data : un état de l'art.
2	Mouna Denden, Ahmed Tlili, Fathi Essalmi and Mohamed Jemni (**Tunisia**)	Students' learning performance in a gamified and self-determined learning environment

SIIE

3	Aycha Ben Mekki, Jihene Tounsi and Lamjed Ben Said (**Tunisia**)	Modeling an agent-based cooperative dynamic behavior in a context of SME's sustainable supply chain under uncertainty
4	Fatma Moalla, Mehdi Mrad and Ali Balma (**Tunisia**)	Genetic Algorithms For The Nodes Migration Scheduling Problem.

Session P2 : Posters / Communications Affichées
*Chairs: Prs. **Hajer Ben Romdhane (ISG, University of Tunis, Tunisia) & Zied Jedidi (ISBAT, University of Tunis, Tunisia)***

P2		
		Moderation by Chair: (20' presentation & discussion) per Poster

SIIE

1	Baraâ Jebali, Ramzi Farhat and Mohamed Jemni (**Tunisia**)	Profiling learners ' groups in MOOCs
2	Sanda Hammedi, Fathi Essalmi, Mohamed Jemni and Alaa Abdurahman Qaffas (**Tunisia & Saudi Arabia**)	An investigation of AI in games: educational intelligent games vs non-educational games
3	Amarouayache Iskander Imed Eddine, Saadi Mohamed Nacer and Guersi Nourreddine (**Algeria**)	Bearing Fault Diagnosis Method Based on Vibration Image and Convolutional Neural Network

CITED

4	Amira Kaddour and Yasmine Dakoumi (**Tunisia**)	ESG approach, the new perspective of financial analysis: challenges and limits for MENA region
5	Amira Kaddour, Mariem Maazi and Nour Dridi (**Tunisia**)	La transition green et digitale : une question de culture et de valeur
6	Amarouayache Iskander Imed Eddine, Saadi Mohamed Nacer and Guersi Nourreddine (**Tunisia**)	Bearing Fault Diagnosis Method Based on Vibration Image and Convolutional Neural Network
7	Nizar Jebali and Amira Kaddour (**Tunisia**)	Big Data analytics in Smart grid application

20h30 : Gala Dinner

9h00-10h30 : Plenary Conferences & Academic Keynotes

*Chair: Pr. **Sahbi Sidhom** (University of Lorraine, France)*

35-40' Keynote speech + 5-10' Discussion

Title: **The future of Business Intelligence and Knowledge Management at the era of Big Data.**
Guest speaker : **Pr. Souad KAMMOUN-CHOUK, University of Manouba (ESC), Tunisia.**

Discussion

*Chair: Pr. **Amira Kaddour** (University of Carthage, Tunisia)*

35-40' Keynote speech + 5-10' Discussion

Title: **Privacy-Preserving Big Data Analytics.**
Guest speaker : **Pr. M-Tahar KECHADI, University College Dublin, Dublin (UCD).**

Discussion

10h30-11h00 : coffee break

11h00-12h30 : Plenary Conferences & Industrial Panel

*Chair: Prs. **Craig BOLJKOVAC**, Tshingua University - Senior Advisor (ONU - Basel and Stockholm Committee), Canada & **Boutheina RGAIEG** (Dean of FSJEG University of Jendouba, Tunisia)*

TOPIC : Sustainable Mobility and Technologies / Mobilité Durable et Technologies.

40' Speech

Guest & Affiliation: **ATPR Tunisia**
Title: **Sustainable mobility and ITS**

Guest & Affiliation: **Pr. Amira Kaddour (University of Carthage, Tunisia)**
Title: *Cambridge Scholars Publishing Ltd.*

+10' Open discussion with the audience & Synthesis.

12h45-14h00: Lunch

14h00-15h30 : Plenary Conferences & Industrial Panel

*Chair: **Pr. Hafedh Ben Salah** (ex-Ministre de la Justice, Tunisia)*

TOPIC : Sustainable Development in Legislation / Développement Durable dans la Législation.

20' Speech

Guest & Affiliation: **Pr. Hafedh Ben Salah (ex-Ministre de la Justice, Tunisia)**
Title: **Développement Durable dans la législation Tunisienne : évolutions.**

20' Speech

Guest & Affiliation: **Dr. Imen Ben Rejeb (Enseignante chercheure à la faculté de droit et des sciences politiques de Tunis)**
Title: **Fiscalité et nouvelles technologies.**

20' Speech

Guest & Affiliation: **Dr Emna Zbouna (Enseignante chercheure à la faculté de droit et des sciences politiques de Tunis)**
Title: **L'administration Tunisienne à l'épreuve des nouvelles technologies.**

+30' Open discussion with the audience & Synthesis.

15h30-16h00 : coffee break

16h00-18h00 : Parallel Sessions of Authors

Session A4: Data, Algorithms & Decision
*Chair: Pr. **Nadia ABAOUB** (ESC, University of Manouba, Tunisia)*

SIIE	& ISKO	
(20' presentation +2' discussion) per Paper + 10' Synthesis by Chair		
1	Lamya Oukhouya, Anass Elhaddadi and Brahim Er-Raha (**Morocco**)	Data warehouses with distributed systems: a literature review
2	Hatem Aziza and Saoussen Krichen (**Tunisia**)	Optimization of scientific workflow scheduling in an energy-aware cloud environment
3	Ines Sbai and Saoussen Krichen (**Tunisia**)	An Adaptive Genetic Algorithm for Dynamic Vehicle Routing Problem with Backhaul and Two-

		dimensional loading constraints
4	Mohamed Naceur Azaiez, Asma Ben Yaghlane and Mehdi Mrad (**Tunisia & Saudi Arabia**)	Optimal k cut-sets in defense/attack strategies on networks
5	Rahma Ferjani, Lilia Rejeb and Lamjed Ben Said (**Tunisia**)	Cooperative Reinforcement Multi-Agent LearningSystem For Sleep Stages Classification

Session B4: Ontology, Data & Algorithms
*Chair: Pr. **Amel Tarifa** (ESSECT, University of Tunis, Tunisia)*

ISKO	& SIIE	
		(20' presentation +2' discussion) per Paper + 10' Synthesis by Chair
1	Najla Maalaoui, Lamia Labed Jilani and Raoudha Beltaifa (**Tunisia**)	An Ontology-based recommender system for Service-Oriented Dynamic Product Lines
2	Walid Kssiaâ, Samia Ayari and Nouira Kaouther (**Tunisia**)	An Application of the Peak Over Threshold Method for Ozone Data Modeling
3	Dorra Jriji and Saoussen Krichen (**Tunisia**)	A Memetic algorithm for the tourist trip design with clustered POIs
4	Smail Boussaadi, Hassina Aliane and Abdeldjalil Ouahabi (**Algeria**)	Recommender systems based on detection community in academic social network
5	Mouna Karaja, Meriem Ennigrou and Lamjed Ben Said (**Tunisia**)	Budget-constrained dynamic Bag-of-Tasks scheduling algorithm for heterogeneous multi-cloud environment

Session C4: Decision-Making & Strategies
*Chair: Pr. **Mhamed Zouaoui** (ESC, University of Manouba, Tunisia)*

CITED	& SIIE	
		(20' presentation +2' discussion) per Paper + 10' Synthesis by Chair
1	Abir Ouhibi and Hela Frikha (**Tunisia**)	Interval-valued intuitionistic fuzzy CODAS-SORT method: A case study on natural resources in Tunisia
2	Fedia Daami Remadi and Hela Moalla Frikha (**Tunisia**)	The Triangular Intuitionistic Fuzzy Extension Of The CODAS Method For Solving Multi-Criteria Group Decision Making
3	Fedia Daami Remadi and Hela Moalla Frikha (**Tunisia**)	THE INTUITIONISTIC FUZZY SET FLOWSORT METHODOLOGY FOR GREEN SUPPLIER CATEGORIZATION
4	Dhekra Rezgui, Hend Bouziri, Wassila Aggoune-Mtalaa and	A Comparative Study of Local Search Techniques Addressing an Electric Vehicle Routing Problem

	Jouhaina Chaouachi Siala (**Tunisia & Luxembourg**)	with Time Windows
5	Malika Becha, Olfa Dridi, Oumayma Riabi and Yasmine Benmassaoud	Use of Machine Learning techniques in Financial forecasting

Session D4: Big Data & Technologies
Chair: Pr. Anis Gharbi (TBS, University of Tunis, Tunisia)

TBMS & ISKO		
(20' presentation +2' discussion) per Paper + 10' Synthesis by Chair		
1	Nesrine Ben Njima and Nouira Kaouther (**Tunisia**)	FluSpider a new vision of digital influenza surveillance system: based on Big Data technologies and Massive Data Mining techniques
2	Zainab Maalej and Nouira Kaouther (**Tunisia**)	Analysis of breast cancer data: a comparative study on dierent feature selection techniques
3	Noureddine Bourkache, Sahbi Sidhom and Mourad Laghrouche (**Algeria & France**)	Gabor Filter Algorithm for medical image processing : evolution in Big Data context
4	Afef Ben Brahim and Wafa Raboudi (**Tunisia**)	Improving Customer Relationship Management using Machine Learning techniques: A Tunisian Case Study
5	Nedra Amara, Said Gattoufi and Olfa Lamouchi (**Tunisia**)	Design of a Breast Image Data Warehouse Framework

18h10 : Conclusion of the Multi-Conference & Closing Ceremony.