

**2<sup>nd</sup> International Conference on Artificial Intelligence and Information Technology ICA2IT**  
**Ouargla, Algeria, March 04 – 06, 2019**  
**Conference Program**

March 4th, 2019				
	07.30-08.30	Registration		
	08.30-09.45	Opening session		
	09.45-10.15	Coffee break		
Plenary session 1	10.15-11.45	<b>Online Learning for Big Data</b>		
		<b>Keynote speaker: Prof. Abdelhamid Bouchachia</b>		
	11.45-13.30	Lunch		
Session 1.1.a, Data Mining Applications	13.30-13.50	A comparative study of Semi-Supervised Clustering methods with pairwise constraint	Salsabil Lakhdari, Nesma Settouti, Mohammed El Amine Bechar and Mostafa El Habib Daho	29
	13.55-14.15	Proposed Clustering Model Based on Sequential Rules in the Web Mining (Improvement of the k-medoids partitioning algorithm)	Hadj-Tayeb Karima and Belbachir Hafida	41
	14.20-14.40	Fraud Detection System for Smart Grid AMI	Abdelaziz Amara Korba, Nour El Islem Karabadjji and Mohamed Amine Ferrag	43
	14.45-15.05	Datawarehouse-based approach for the analysis of terrorism-related activities in social networks	Kamel Ahsene Djaballah, Kamel Boukhalifa and Omar Boussaïd	113
Session 1.1.b, Artificial Intelligence Applications	13.30-13.50	Metrics for the Rationality of Jadex-Based Applications	Toufik Marir, Oubadi Sihem and Hadjer Mallek	121
	13.55-14.15	On The Use Of KStar Algorithm For Predicting Object-Oriented Software Maintainability	Narimane Zighed and Nora Bounour	123
	14.20-14.40	Threshold Optimization in Distributed TM-CFAR Adaptive Acquisition Serial Search System Using Particles Swarm Optimization Technique : Identical case	Benkrinah Sabra and Benslama Malek	114
	14.45-15.05	Spurious Trip Rate Modelisation and Quantitative assessment of Emergency ShutDown system in the oil and gaz industry	Hafed Touaher, Nouara Ouazraoui, Mourad Korichi, Rachid Nait Said and Bilal Bachi	77
	15.05-15.35	Coffee break + Poster session #1		
Session 1.2.a, Scheduling Problems	15.40-16.00	Two-machine job shop scheduling problem with two competing agents	Azerine Abdennour, Boudhar Mourad and Rebaine Djamel	34
	16.05-16.25	Just in time multicriteria scheduling problem in two-machine flow shop	Djedjiga Ouiddir, Mourad Boudhar and Karima Bouibede Hocine	36
	16.30-16.50	MIP models for a two-machine open shop problem and a server with setup times consideration	Nadia Babou, Mourad Boudhar and Djamel Rebaine	38
	16.55-17.15	Scheduling conflicting jobs: application and new results	Amin Mallek, Mohamed Bendraouche and Mourad Boudhar	105
Session 1.2.b, Ontology Engineering	15.40-16.00	Towards Building and Enriching Web Service domain Ontology	Houda El Bouhissi, Abdel-Badeeh Mahmoud Salem and Abdelkamel Tari	5
	16.05-16.25	A Survey of Current Approaches for Rewriting SPARQL-to-SQL	Nesrine Lehireche	18
	16.30-16.50	Rules-Based Approach To Convert Class Diagram Operations To Ontology	Wafa Souiou and Nora Bounour	67

March 5th, 2019

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Plenary session2	08.30-10.00	<b>What can we really do with big data: a panorama of some scientific advances</b>		
		<b>Keynote Speaker: Prof. Omar Boussaid</b>		
	10.00-10.30	Coffee break		
Session 2.1.a, Networks and security	10.35-10.55	Optimal path routing algorithm for wireless sensor networks	Kheireddine Mekkaoui and Abdellatif Rahmoune	4
	11.00-11.20	A Conditional Distributed K-means Cluster-based Routing Scheme for Wireless Sensor Networks	Bouchra Meriem Benmahdi and Mohamed Lehsaini	119
	11.25-11.45	Intrusion Detection System based on MDT	Faiz Maazouzi, Akram Boukhamla and Hafed Zarzour	106
Session 2.1.b, Applications of Computer Vision	10.35-10.55	Modified Particle Swarm Optimization Approach applied to MRI Brain Image Clustering	Sabra Hamissi, Nabila Nouaouria and Labiba Souici-Meslati	69
	11.00-11.20	Scores and average extraction from Algerian baccalaureate transcripts	Abderrahmane Kefali and Soumia Drabsia	37
	11.25-11.45	Digital administrative documents forgery detection using One-class SVM	Agti Sana, Drid Abou Bakr Sedik and Djefal Abdelhamid	93
	11.45-13.30	Lunch		
Session 2.2.a, Combinatorial Optimization Problems	13.30-13.50	Approximate Solutions for Balanced Arc Routing Problem	Badis Bensedira, Abdesslem Layeb and Zineb Habbas	8
	13.55-14.15	Sudoku grids technique for the drugs assignment in an automated dispensing cabinets	Abderrahmen Chaker and Khalid Hachemi	60
	14.20-14.40	Solving the Multi-Robot Task Allocation Problem using Firefly, Artificial Bee Colony and Quantum Genetic Algorithms	Farouq Zitouni	124
	14.45-15.05	An Guided Genetic Algorithm for the Single Machine Total Weighted Tardiness Problem	Lamiche Chaabane	61
Session 2.2.b, Internet of Things	13.30-13.50	Authentication Schemes in Internet of Things: A review	Yasmine Labiod, Abdelaziz Amara-Korba, Nacira Ghoulmi and Mohamed Amine Ferrag	32
	13.55-14.15	Design and Realization of a Intelligent Lighting System for a Smart city Based on Ultrasonic Waves	Zeghoudi Abdelfettah, Hadjoudja Zine Elabidine, Tadj Mohammed Riad and Cherifi Fatima	3
	14.20-14.40	Security for Internet of Things: A State of the Art on existing Protocols and Open Research Issues	Mahmoud Chaira, Sofiane Aouag and Hadda Cherroun	109
	15.05-15.35	Coffee break + Poster session #2		
Session 2.3.a, Combinatorial Problems.	15.40-16.00	The equitable chromatic numbers of some graphs	Sarah Nouri and Mohamed Bendraouche	15
	16.05-16.25	Efficient optimization to the N Queens Problem	Djamel Hadj Mohammed	46
	16.30-16.50	On the Complexity of the K-way Vertex Cut Problem	Mohammed Lalou	90
	16.55-17.15	Ordered Tree Compression	Habibeche Salah Eddine and Ben-Naoum Farah	86
Session 2.3.b, Image Retrieval, Segmentation, and Object detection	15.40-16.00	A Novel Information Retrieval Approach based on Recursive Shifting Query	Mawloud Mosbah	71
	16.05-16.25	An Overview of Deep Learning-Based Object Detection Methods	Yassine Bouafia and Larbi Guezouli	91
	16.30-16.50	A Hybrid Method for Image Segmentation Based on modified bat Algorithm and Fuzzy c-Means Clustering	Souhil Larbi Boulanouar and Chaabane Lamiche	111

March 6th, 2019

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Plenary session3	08.30-10.00	<b>The Rise of Artificial Intelligence: Benefits and Risks</b>		
		<b>Keynote speaker: Prof. Ahmed Bouridane</b>		
	10.00-10.30	Coffee break		
Session 3.1.a, Pattern Recognition	10.35-10.55	A supervised probabilistic model for visual object recognition	Aiadi Oussama, Belal Khaldi, Mohammed Lamine Kherfi, Yacine Ghorfa and Rihana Rezzag Bara	81
	11.00-11.20	A Comparative Study on Arabic Handwritten Words Recognition Using Textures Descriptors	Aicha Korichi, Oussama Aiadi, Mohammed Lamine Kherfi and Sihem Slatnia	107
	11.25-11.45	Abnormal human activities recognition : brief synthesis of vision based methods	Beddiar Djamilia Romaiassa and Nini Brahim	63
Session 3.1.b, Complex Networks and Web Service	10.35-10.55	Extracting Behavioral Models from Executions Data in Web Services Environments	Khebizi Ali and Seridi Hassina	53
	11.00-11.20	An agent and multi-criteria methods based approach for Web service selection	Houcine Belouaar, Okba Kazar and Nadia Kabachi	13
	11.25-11.45	Taxonomy of Community models and applications in Complex Networks	Abdelhani Diboune, Hassina Nacer, Kadda Beghdad Bey and Hachem Slimani	108
	11.45-12.30	Closing Ceremony		
	12.30-13.30	Lunch		
		Social event		