

BDCA'18

The 3rd International Conference On Big Data, Cloud and Applications

April 04 and 05, 2018

Faculty of Sciences - Kénitra
Morocco



ROYAUME DU MAROC
Ministère de l'Enseignement Supérieur de
la Recherche Scientifique et de la Formation
des Cadres



كلية العلوم - القنيطرة
Faculté des Sciences - Kenitra



Wednesday April 4 th	
08h00 - 08h:30	Welcoming and Registration of Participants
08h30 - 09h:00	Opening Ceremony
09h00 - 09h50	Keynote Talk : The decision maker, the big data, and the neuro-economics Contribution of neuroscience to our understanding of decision-making mechanisms Prof. Michel Raimondo, Associate Director – Manager of MATRICIEL Chair: Prof. J.Laassiri and Prof. J. Alami
09h50 - 10h20	Networking & Coffee Break
10h20 – 12h00	Oral Session BDCA 1 : Big Data Chairs: Prof. J. Alami and Prof. L. Benammor Room : 22 Oral Session BDCA 2 : Machine learning Chairs: Prof. N.Rafalia and Prof. K. El Moutaouakil Room : 23 Oral Session BDCA 3 : Cloud Computing Chairs: Prof. Y. Hadi and Prof. H. Laanaya Room : 24 Oral Session BDCA 4: Image Processing and Applications Chairs: Prof. A. Sadiq and Prof. K. Houssni Room : 25
12h00 - 14h00	Networking & Lunch Break
14:00 - 16:00	Oral Session BDCA 5 : Data analysis Chairs: Prof. M. Kaicer and Prof. N. Enneya Room : 22 Oral Session BDCA 6 : Natural Language Processing Chairs: Prof. J. Abouchabaka and Prof. M. Al achhab Room : 23 Oral Session BDCA 7: Systems Security Chairs: Prof. G. Orhanou and Prof. S. Krit Room : 24 Oral Session BDCA 8: Action Detection and recognition Prof. I.El azami and Prof. A. Medouri Room : 25
16h00 - 16h30	Networking & Coffee Break
16h30 - 18h30	Oral Session BDCA 9 : Data analysis and Serious games Chairs: Prof J.Laassiri and Prof. O. Mahboub Room : 22 Oral Session BDCA 10 : Neural Networks Chairs: Prof. M.Lazaar and Prof. N. El Akkad Room : 23 Oral Session BDCA 11: Information system Chairs: Prof. B.Dkhissi and Prof. Y. Tabii Room : 24 Oral Session BDCA 12: Image Processing and Applications Chairs: Prof. A. Sadiq and Prof. M.Chrayah Room : 25
Thursday April 5 th	
08h30 - 09h30	Keynote Talk: Artificial Neural Networks and Parallel Computing Paradigm: Towards a New Parallel and Distributed Learning Algorithm. Prof. Mohammed Mestari is a professor at ENSET of Mohammadia, Morocco Chair: Prof. A. Medouri and Prof Y. Tabii
09h30 - 10h00	Networking & Coffee Break
10h00 – 12h00	Oral Session BDCA 13 : Data Mining and Optimization Chairs: Prof. J. Alami and Prof. L. Benammor Room : 22 Oral Session BDCA 14 : Big Data & Deep Learning Chairs: Prof. M. Chrayah and Prof. O. Chakkor Room : 23 Oral Session BDCA 15: Wireless and Mobile Networks Chairs: Prof. N. Enneya and F. Ouardi Room : 24 Oral Session BDCA 16 : Supply Chain Management and Applications Chairs: Prof. B.Dkhissi and Prof J. Laassiri Room : 25
12h00 - 12h30	Closing Ceremony
12h30 – 14h00	Networking & Lunch Break

Oral Session BDCA 1 : Big Data		10h20 – 12h00, Wednesday April 4th 2018
Chairs: Prof. J. Alami and Prof. L. Benammor		Room : 22
ID: 53	Abdelmajid Chaffai, Larbi Hassouni and Houda Anoun Informal Learning in Twitter: Architecture of Data analysis Workflow and Extraction of Top Group of Connected Hashtags	
ID: 64	Manal Zettam, Jalal Laassiri and Enneya Nourddine A MapReduce-based adjoint method to predict the Levenson Self Report Psychopathy scale value	
ID: 65	Khadija Aziz Big Data Optimisation Among RDDs Persistence In Apache Spark	
ID: 77	Houssam Benbrahim, Hanaâ Hachimi and Aouatif Amine A Comparative Study Between Hadoop and Spark: Which one for the Big Data Analysis?	
Oral Session BDCA 2 : Machine learning		10h20 – 12h00, Wednesday April 4th 2018
Chairs: Prof. N.Rafalia and Prof. K. El Moutaouakil		Room : 23
ID: 4	Abdelkader Rhouti, Jamal Berrich, Mohammed Ghaouth Belkasmı and Bouchentouf Toumi Toward a solution to interoperability and portability of content between different content management system (CMS) : Introduction to DB2EAV API	
ID: 15	Ahmed Oussous, Ayoub Ait Lahcen and Samir Belfkih Improving Sentiment Analysis of Moroccan Tweets using Ensemble Learning	
ID: 16	Khandaker Tasnim Huq, Abdus Selim Mollah and Md. Shakhawat Hossain Sajal Comparative Study of Feature Engineering Techniques for disease prediction	
ID: 79	Abir Ismaili-Alaoui, Khalid Benali, Karim Baina and Jamal Baina Business process instances scheduling with human resources based on event priority determination	
ID:67	Nada Ben-Lhachemi and El Habib Nfaoui Hashtag Recommendation Using Word Sequences' Embeddings	
Oral Session BDCA 3 : Cloud Computing		10h20 – 12h00, Wednesday April 4th 2018
Chairs: Prof. Y. Hadi and Prof. H. Laanaya		Room : 24
ID: 11	Mohamed Hanine and El Habib Ben Lahmar QoS in the Cloud Computing: A Load Balancing Approach using Simulated Annealing Algorithm	
ID:104	Adam Tamim, Najat Rafalia and Jaafar Abouchabaka Business Intelligence and Cloud Computing	
ID:105	Amrani Ayoub, Rafalia Najat and Abouchabaka Jaafar Overview on security schemes based on elliptic curve for Cloud-IoT	
ID: 66	Chaimae Saadi and Habiba Chaoui Proposed an approach to reduce the vulnerability in a cloud system	
Oral Session BDCA 4: Image Processing and Applications		10h20 – 12h00, Wednesday April 4th 2018
Chairs: Prof. A. Sadiq and Prof. K. Houssni		Room : 25
ID:47	Karima Karim, Nabil El Akkad and Khalid Satori Reconstruction of the 3D scenes from the matching between pair of images taken by an uncalibrated camera	
ID:56	Mohamed Admi, Sanaa El Fkihi and Rdouan Faizi An enhanced MSER based method for detecting text in License Plates	
ID: 89	Manal Ezzahmouly, Abdelmajid Elmoutaouakkil, Mohamed Ed-Dahraouy, Hamza Khallok, Abdelaziz Elouahli, Arnaud Mazurier, Abderrazak El Albani and Zineb Hatim Porous Bioceramics: Three-Dimensional Micro-Computed Tomographic Study Using an Adaptive Method based on Mathematical Morphological Operation	

ID: 28	Abderrahmane Adoui El Ouadrhiri and Said Jai Andaloussi Similarity performance of keyframes extraction on Bounded Content of Motion Histogram
Oral Session BDCA 5 : Data analysis 14h00 – 16h00, Wednesday April 4 th 2018 Chairs: Prof. M. Kaicer and Prof. N. Enneya Room : 22	
ID:14	Mohammed Yahyaoui, Souad Amjad, Lamia Benameur and Ismail Jellouli The Effect Performance of Bitmap Join Indexes
ID:21	Nacer E. Elkadri E. and Abdelhakim Chillali Management of the databases of finite element software
ID:22	Sara Mifrah, Oumaima Hourrane, El Habib Benlahmar, Nadia Bouhriz and Mohamed Rachdi Citation Sentiment Analysis: A Brief Comprehensive Study
ID:32	Siham Eddamiri, Zemmouri El Moukhtar and Asmaa Benghabrit Towards an improved RDF Data Clustering Algorithm
ID:74	Iman Tikito and Nissrine Souissi Methodology of Data Systematic Review: a step by step guide
ID:82	Houda Zaim, Mohammed Ramdani and Adil Haddi Splitting Method for Decision Tree Based on Similarity with Mixed Fuzzy Categorical and Numeric Attributes
Oral Session BDCA 6 : Natural Language Processing 14h00 – 16h00, Wednesday April 4 th 2018 Chairs: Prof. J. Abouchabaka and Prof. M. Al achhab Room : 23	
ID: 40	Fadoua Mansouri and Sadiq Abdelalim Modeling and development of the linguistic knowledge base DELSOM
ID:43	El Marouani Mohamed, Boudaa Tarik and Enneya Nourddine Incorporation of Linguistic Features in Machine Translation Evaluation of Arabic
ID: 38	Nabil Bendaoud, Yaâcoub Hannad, Abdelillah Samaa and Mohamed El Youssfi El Kettani. Effect of the sub-graphemes' size on the performance of off-line Arabic writer identification
ID:101	Adnan Souri, Zakaria El Maazouzi, Mohammed Al Achhab and Badr Eddine Elmohaji. Arabic text Generation using Recurrent Neural Networks
ID:88	Imad Zeroual, Anoual El Kah and Abdelhak Lakhouaja Integrating corpus-based analyses in language teaching and learning: challenges and guidelines
ID:18	Tarik Boudaa, Mohamed El Marouani and Nourddine Enneya Arabic Temporal Expression Tagging and Normalization
Oral Session BDCA 7: Systems Security 14h00 – 16h00, Wednesday April 4 th 2018 Chairs: Prof. G. Orhanou and Prof. S. Krit Room : 24	
ID:17	Mehdi Moukhafi, Khalid El Yassini and Seddik Bri Mining network traffics for intrusion detection through combining Multilayer perceptron with Genetic algorithm
ID:46	Mohammed Es-Sabry, Nabil El Akkad, Merras Mostafa, Abderrahim Saaidi and Khalid Satori A Novel Text Encryption Algorithm Based on the Two-square Cipher and Caesar Cipher
ID:83	Soufiane Sail and Halima Bouden A multi-factor Authentication scheme to strength data-storage access
ID:95	Maryam Elhannati and Jalal Laassiri Information Systems Security and Access Control for Banks Services

ID:96	Yousra Berguig, Jalal Laassiri and Salahddine Krit A Mobile Agent for Distributed Systems Security Survey
Oral Session BDCA 8: Objects Detection and Traking 14h00 – 16h00, Wednesday April 4 th 2018 Prof. I.El azami and Prof. A. Medouri Room : 25	
ID:113	Meryem Barakate and Abdelalim Sadiq Sarcasm detection in social media: State of the art
ID:115	Fatimazahra Jakjoud, Anas Hatim and Abella Bouaddi Fuzzy detection Orange tree leaves disease using aco-occurrence matrix based KNN classifiers
ID:117	Habib Ayad, Mohammed Khalil and Abdellah Adib Medical Image Watermarking Scheme Using the Hessenberg Decomposition and SWT
ID:121	Zaynab El Khattabi, Youness Tabii and Abdelhamid Benkaddour Visual Content Summarization for Instructional Videos Using Adaboost and SIFT
ID:124	Nabila Zrira, Mehdi Abouzahir, Bouyakhf El Houssine, Ibtissam Benmiloud and Mohamed Majid Himmi Learning Combined Features for Automatic Facial Expression Recognition
ID:125	Ounachad Khalid, Souhar Abdelghani and Sadiq Abdelalim A State of the art of Face Sketch Recognition
Oral Session BDCA 9 : Data analysis 16h30 - 18h30, Wednesday April 4 th 2018 Chairs: Prof J.Laassiri and Prof. O. Mahboub Room : 22	
ID:26	Rachida El Morabet and Abderrahmane Adoui El Ouadrhiri Automatic Classification of Air Pollution and Human Health
ID:27	Nadim Ismail, Yassine El Ghayam and Sadiq Abdelalim Mobility of Web of Things: a distributed semantic discovery architecture
ID:86	Soufiane El Mrabti, Mohamed Lazaar and Mohammed Al Achhab Comparison of Feature Selection Methods for Sentiment Analysis
ID:29	Ziauddin Ursani and David Corne A Hierarchical Nonlinear Discriminant Classifier trained through an Evolutionary Algorithm
ID:38	Sara Sekkate, Mohammed Khalil and Abdellah Adib A feature level fusion scheme for robust speaker identification
ID:75	Murad Alkubabji, Mohammed Aldasht and Safa Adi One class genetic-based feature selection for classification in large datasets
Oral Session BDCA 10 : Neural Networks 16h30 - 18h30, Wednesday April 4 th 2018 Chairs: Prof. M.Lazaar and Prof. N. El Akkad Room : 23	
ID:12	Mariem Bounabi, Karim El Moutaoukil and Khalid Satori A Probabilistic Vector Representation and Neural Network for Text Classification
ID:31	Ali Kartit and Farida Jaha Improving implementation of keystroke dynamics using K-NN and Manhattan distance
ID:58	Imam Tahyudin SARIMA Model of Bioelectric Potential Dataset
ID:63	Khalid Haddouch and Karim El Moutaouakil New starting point of the continuous Hopfield network
ID:103	Mohyeddine Achraf, Najat Rafalia and Jaafar Abouchabaka issues, challenges, and solutions: Stock market prediction using artificial neural networks

Oral Session BDCA 11 : Information system and Social Media 16h30 - 18h30, Wednesday April 4 th 2018 Chairs: Prof. B.Dkhissi and Prof. Y. Tabii Room : 24	
ID:33	Mehdi Srifi, Badr Ait Hammou, Ayoub Ait Lahcen and Salma Mouline A Concise Survey on Content Recommendations
ID:23	Rafat Alhanani, Jaafar Abouchabaka and Najat Rafalia New approach to construct a minimum CDS based on Mobile Agent
ID:52	Kawtar Imgharene, Karim Doumi, Salah Baina Toward a model of Agility and Business IT Alignment
ID:73	Khadija Elamrani, Nouredine Chenfour, Mohammed Lahmer and Ghita Daoudi Wolf: A framework for digital workplace
ID:97	Oussama El Hajjamy, Larbi Alaoui and Mohamed Bahaj Integration heterogeneous classical data sources in an ontological database
Oral Session BDCA 12: Image Processing and Applications 16h30 - 18h30, Wednesday April 4 th 2018 Chairs: Prof. A. Sadiq and Prof. M.Chrayah Room : 25	
ID:112	Mohammed Ed-Dhahraouy and Abdelmajid El Moutaouakkil The impact of the threshold-based segmentation on the detection error of a Semi-Automatic Algorithm for landmarks detection in CBCT images
ID:114	Amine Benhfid and El Bachir Ameur Image Data Hiding Scheme Based On Spline Interpolation and OPAP
ID:116	Nawfal El Maliki, Hassan Silkan and Mounir El Maghri. Combining human Visual Features for Efficient retrieval in Faces databases by using a convivial interface
ID:118	Issam El Khadiri, Abderrazak Chahi, Youssef El Merabet, Yassine Ruichek and Raja Touahni Image classification with Local Directional Decoded Ternary Pattern
ID:127	Mohammed Khalil, Habib Ayad and Abdellah Adib MR-Brain image classification based on wavelet HOG and weighted KNN
Oral Session BDCA 13 : Data Mining and Optimization 10h00 – 12h00, Thursday April 5 th 2018 Chairs: Prof. J. Alami and Prof. L. Benammor Room : 22	
ID:13	Zakariyaa Ait El Mouden, Rachida Moulay Taj, Abdeslam Jakimi and Moha Hajar Towards for Using Spectral Clustering in Graph Mining
ID:2	Ayoub Elotmani and Halima Bouden Implementation of NoSQL Data Warehouse; Performance comparison of different NoSQL technology
ID:49	Kawtar Zinebi, Nissrine Souissi and Kawtar Tikito Driver Behavior Analysis Methods: Applications oriented study
ID:91	Wissam El Moutaraji and Jihane Alami Chentoufi Artificial immune systems for breast cancer detection
ID:55	Mohammed El Fouki, Noura Aknin and K. Ed El. Kadiri Towards an improved classification model based on Deep Learning and nearest rules strategy

Oral Session BDCA 14 : Big Data & Deep Learning		10h00 – 12h00, Thursday April 5 th 2018
Chairs: Prof. M. Chrayah and Prof. O. Chakkor		Room : 23
ID:44	Amri Samir and Zenkouar Lahbib Amazigh PoS Tagging Using an Approach of Deep Learning	
ID:51	Meriem Bahi and Mohamed Batouche Deep Semi-Supervised Learning for Virtual Screening based on Big Data Analytics	
ID:80	Oumaima Hourrane, Sara Mifrah, El Habib Ben Lahmar, Nadia Bouhriz and Mohamed Rachdi Using Deep Learning Word Embeddings for Citations Similarity in Academic Papers	
ID:42	Hanae Necba, Maryem Rhanoui and Bouchra El Asri Using Unsupervised Machine Learning for Data Quality. Application to Financial Governmental Data Integration	
ID:70	Imene Zenbout and Souham Meshoul Advanced Machine learning models for large scale gene expression analysis in cancer classification: deep learning versus classical models	
ID:81	Amri Samir and Zenkouar Lahbib Stemming and Lemmatization for Information Retrieval Systems in Amazigh Language	
Oral Session BDCA 15: Wireless and Mobile Networks		10h00 – 12h00, Thursday April 5 th 2018
Chairs: Prof. N. Enneya and F. Ouardi		Room : 24
ID:10	Hind Ziani and Nourddine Enneya QoE in Video Streaming over Ad-hoc Networks: Comparison and Analysis of AODV and OLSR Routing Protocols	
ID:39	Yassir Rouchdi, Khalid El Yassini and Kenza Oufaska Complex Event Processing Radio Frequency Identification & Wireless Sensor Networks Events in a Smart Medicament Transportation Application	
ID:61	Anoual El Kah and Abdelhak Lakhouaja A survey about legible Arabic fonts for young readers	
ID:6	Houda Abouzid and Otman Chakkor Dimension Reduction Techniques for Signal Separation Algorithms	
Oral Session BDCA 16 : S.C. Management and Applications		10h00 – 12h00, Thursday April 5 th 2018
Chairs: Prof. B.Dkhissi and Prof J. Laassiri		Room : 25
ID:99	Bouchra Bouziyane, Btissam Dkhissi and Mohammad Cherkaoui Multiobjective local search based hybrid algorithm for Vehicle Routing Problem with Soft Time Windows	
ID:106	Fadoua Oudouar and Abdellah El Fallahi Updated Self-organizing maps for the vehicle routing problem	
ID:100	Hanane AMESSAFI, Reda JOURANI, Hossain OULAD YAKHLEF and Adil ECHCHELH A Literature survey of modeling in Automatic Language Recognition	
ID:98	Kaoutar Aharmouch, Abdellatif Medouri and Azza Lajjam Green Vehicle Routing Problem: state of art classification	



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