

**IEEE International Conference on Natural and Engineering Sciences for Sahel's
Sustainable Development**
Impact of Big data application on society and environment
Ouagadougou, Burkina Faso
04-06 February 2020

Venue: «Université Virtuelle du Burkina/Institut des Formations Ouvertes et à Distance (IFOAD) de l'Université Joseph KI-ZERBO» (located at Ouaga 2000, near BF1 television headquarters)

Tuesday 04th february	Wednesday 05th february	Thursday 06th february
8:00-9:30 Registrations	8:30-10:00 Session 3 Intelligent Data Mining <i>Chair Dr Aminata ZERBO</i>	8:30-9:30 Keynote 4 Big Data and meteorology M. Ousmane OUEDRAOGO, Agence Nationale de la Météorologie, Burkina Faso <i>Chair Dr Boris OUEDRAOGO</i>
9:30 Opening ceremony -President IEEE Burkina -Conference sponsor and referrer, Président Autorité de Regulation des Communications Electroniques et des Postes, M. Charles MILLOGO -Conference Program Co-Chairs, François COALLIER, École de technologie supérieure, Canada Hatem BEN STA, Université de Tunis El Manar, Tunisie -Ministre de l'enseignement Supérieur, de la Recherche Scientifique et de l'Innovation, Alkassoum MAÏGA -Ministre du Développement de l'Economie numérique et des Postes	10:00-11:00 Keynote 2 Big data: data analysis and processing tools and technics <i>Dr Abdoulaye SERE, Université Nazi Boni, Burkina Faso</i> <i>Chair Dr Aminata ZERBO</i>	9:30-10:30 Session 6 Life and earth sciences data <i>Chair Dr Boris OUEDRAOGO</i>
Coffee break (10:30-11:30) (Registered attendees)	Coffee break (11:00-11:30) (Registered attendees)	Coffee break (11:00-11:30) (Registered attendees)
11:30-12:30 Panel Big data, a chance for Sahelian countries? <i>Chair Pr Hatem BEN STA</i>	11:30-12:30 Session 4 Intelligent Data Mining <i>Chair Dr Ferdinand Guinko</i>	11:30-12:30 Keynote 5 Système Régional de Gestion de Données et de Diffusion d'information-AGRHYMET/CILSS M. Oumarou MOULAYE, AGRHYMET/CILSS
	1. BAIWL: Blacklisting Approach to Improve Wireless Sensor Network Lifetime , Hamadoun Tall; Tiguiane Yélérou; Doda Afoussatou Rollande	1. Fault-Tolerant Routing Protocol for Ad Hoc Networks , Hamadoun Tall; Dandjinou Mesmin; Tiguiane Yélérou 2. Proposition of a Time Transform for the Detection of Cardiac Sounds in the Phonocardiogram of a Healthy Patient , Patrick Sotindjo; Léopold Djogbe

	<p>2. <i>Activity Mining in a Smart Home from Uncertain and Temporal Databases</i>, Josky Aizan; Eugène Ezin; Cina Motamed</p>	<p><i>Chair Dr Hamadou TALL</i></p>
<p>Lunch (12:30-14:00) (Registered attendees)</p>	<p>Lunch (12:30-14:00) (Registered attendees)</p>	<p>Lunch (13:00-14:30) (Registered attendees)</p>
<p>14:00-15:00 Session 1: Intelligent Data Mining <i>Chair Dr Tiguiane YELEMOU</i></p> <ol style="list-style-type: none"> 1. <i>A Feature Extraction Method in Large Scale Prediction of Human Protein-Protein Interactions Using Physico Chemical Properties into Bi-gram</i>, Charlemagne NDiffon Kopoin; Tchimou NTakpe; Bernard Saha; Michel Babri 2. <i>Economic Problems Solving with Algorithms for Asymptotically Exact Minimizations in Karush-Kuhn-Tucker Methods</i>, Koudi Jean 	<p>14:00-15:00 Keynote 3: «National Observatory of the Territorial Economy: presentation and demonstration» Mme TRAORE Evelyne/M. TOE Magloire, Ministère de l'Economie et des Finances, Burkina Faso <i>Chair Dr Yaya TRAORE</i></p>	<p>14:30-16:00 Session 7 Papers on improvement <i>Chair Dr Hamadou TALL</i></p>
<p>15:00-16:00 Keynote 1: «Big Data key concepts and data collection techniques», Dr Yaya TRAORE, Université Joseph KI-ZERBO <i>Chair Dr Tiguiane YELEMOU</i></p>	<p>15:00-16:00 Session 5 Data Science and Scalable Computing <i>Chair Dr Yaya TRAORE</i></p> <ol style="list-style-type: none"> 1. <i>A novel compact multiband antenna on fractal geometry for ambient RF energy harvesting in the LTE/GSM, UMTS and WIFI bands</i>, Ognadon Assogba 2. <i>Efficiency in RF Energy Harvesting Systems: A Comprehensive Review</i>, Ognadon Assogba 	
		<p>16:00-16:30 Closing ceremony</p>
<p>16 :00-17 :00 Session 2 Student Research Competition <i>Chair Dr Boris OUEDRAOGO</i></p>		<p>17:00 Cocktail de clôture (Registered attendees)</p>