



CONSEIL AFRICAIN
ET MALGACHE POUR
L'ENSEIGNEMENT SUPÉRIEUR



Ministère de l'Enseignement
Supérieur et de la
Recherche Scientifique



EAI AFRICOMM 2024 - 16th EAI International Conference on Africa Internet infrastructures and Services

<https://africomconference.eai-conferences.org/2024/>

November, 27-28, 2024

Online and on site, Abidjan, Université Virtuelle de Côte d'Ivoire

On site session : Room Aula, Université Virtuelle de Côte d'Ivoire

Online Link: <https://us06web.zoom.us/j/84384141901?pwd=xp6TcaoQccybwHDJzTW5nP1UMVRbJz.1> Meeting ID :

843 8414 1901

Code : 972850

PROGRAMME

TIME (GMT)	SESSIONS	CHAIRS
8:30 – 9:00	<p>Welcome and registration</p> <p>Online presentation link https://us06web.zoom.us/j/84384141901?pwd=xp6TcaoQccybwHDJzTW5nPIUMVRbJz.1M Meeting ID : 843 8414 1901 Code : 972850</p>	Organizing committee
9:00 – 10:00	<p>Opening ceremony</p> <ul style="list-style-type: none"> - Introductory remarks - Speech of the Chairman of the Organizing Committee - Speech of the General Chairman - Addresses of EAI - Speech of the High Education Minister or his representative 	<ul style="list-style-type: none"> - M.C. - Local chair - General Chair - Partners - Minister
10:00 – 10:45	<p>Keynote Speaker: Prof. Claude LISHOU, Ecole Supérieure Polytechnique de l'Université Cheikh Anta Diop, Dakar, Sénégal</p> <p>Perspectives et Défis des TIC en Afrique : Infrastructures, Services, Réglementations et Technologies Géospatiales</p>	Moderator: Prof. Fernand KOUAME
10:45 – 11:10	COFFEE BREAK / PHOTO & INTERVIEWS	
11:10 – 11:40	SESSION 1: E-GOVERNMENT AND E-SERVICE	
	<p>11:10-11:25: #351374 : Virtual Reality in Education : Addressing School Inaccessibility in Burkina Faso During Crisis (Moustapha Bikienga)</p> <p>11:25-11:40:</p>	Moderator: Dr JOFACK SOKENG Valère Carin

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	#348311 : A Structured Metamodel for Architecture Debt Management (Flavien Hervé Somda)	
11:40-13:00	SESSION 2: EMERGING NETWORK	
	<p>11:40-11:55 352395 Digital Technology and the Crop Calendar for Efficient Agriculture in West Africa Ida TOGNISSE</p>	Moderator: Dr ATIAMPO Armand

	<p>11:55-12:10: #348260: Twenty years of research on information-centric networking: which conclusions for the next version of the Internet? (Mohamed Bobo Diallo)</p>	
	<p>12:10-12:25: #348321: Spatial mode multiplexing using soliton microcombs for next generation network (Douatia Koné)</p>	
	<p>12:25-12:40: #351468: Harnessing ISM for Customer Churn in Mobile Telecom Networks (Jean-Claude Mudilu Kafunda)</p>	
	<p>12:40-12:55: #350434: Legal and Ethical Considerations in IoT Forensic Investigations: A Study on Global Perspective (Norman Nelufule)</p> <p>12:55-13:10 Contribution to the strategic alignment of artificial intelligence to the personalized e-Learning business process. (Olivier Kragbi PETEY)</p>	
13:10-14:00	LUNCH	
14:00-15:00	SESSION 3: EMERGING NETWORK	
	<p>14:00-14:15: #348323: 5G-NR PUSCH Receiver Optimization in Context of Intra/Inter Cell Interference. (Désiré Guel)</p>	Moderator: Dr (MC) SERE Abdoulaye
	<p>14:15-14:30: #350644: Real-Time Vital Sign Monitoring of Contagious Diseases in West Africa's Healthcare System Using Grafana and IoT Devices. (Thierry Kondengar)</p>	
	<p>14:30-14:45: #348553: A comprehensive literature review on road traffic simulators. (Emile Nana)</p>	
	<p>14:45-15:00: #351465: Towards an architectural approach of insurance fraud detection (Rachidatou Nabi)</p> <p>15:00-15:15 #352427 LoRaWAN Infrastructure to Support Wildlife Conservation Adalbert João</p> <p>15:15-15:30 Contribution to the strategic alignment of artificial intelligence to the personalized e-Learning business process. (Olivier Kragbi PETEY)</p>	
15:30-16:30	SESSION 4: CYBERSECURITY	

		Moderator: Dr ADEPO Joël
	15:30-15:45: #351420: Verifying the Integrity of Hardcopy Documents: Proposed Solution (Cynthia Hombakazi)	

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	15:45-16:00: #351409: Towards an efficient framework for risk assessment of personal data protection in mobile IoT (Venceslas M. Olowo)	
16:00 – 16:30	COFFEE BREAK	
16:30-17:30	SESSION 5: CYBERSECURITY	
	16:30-16:45: #348343: Securing Individual's Identity using ZKP: Proposed System Architecture (Sthembile Ntshangase)	Moderator: Dr Vanga WOGNIN
	16:45-17:00: #348331: Cyber Physical Systems Dependability Using CPS-IoT Traffic Surveillance (Mbalé Kasunzi Mbaherya Landry)	
	-17:00-17:15 #352429: Multi-Scale and Programmable Anomaly Detection for SDN-IoT (Maissa Mbaye)	
	17:15-17:30: #353597: Leveraging Network Reconfiguration to Mitigate Stealthy FDI Attacks in Smart Grid SCADA Systems by Exploiting Attacker Uncertainty (Aurélie Kpoze)	
	17:15-17:30: #352389: Bibliometric analysis on cybersecurity and e-government (Jean Baptiste Gandonou)	
20:00 – 21:30	SOCIAL DINER	

TIME (GMT)	SESSIONS	CHAIRS
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8:30 – 9:00	<p style="text-align: center;">Welcome and registration of participants</p> <p style="text-align: center;">Link: https://us06web.zoom.us/j/84384141901?pwd=xp6TcaoQccybwHDJzTW5nPlUMVRbJz.1Meeting ID : 843 8414 1901 Code : 972850</p>	Organizing Committee
9:00 – 9:45	<p style="text-align: center;">Keynote speaker 2: Dr (MC) Abdoulaye SERE, Université Nazi BONI</p> <p style="text-align: center;">Reconnaissance de formes en traitement d'images</p>	Moderator: Prof. Alain MILLE
9:45 – 11:00	SESSION 6: BIG DATA ANALYTIC, BLOCKCHAIN / WORKSHOP - EMERGING TECHNOLOGIES / PHD	
	9:45-10:00: #349814: A New Approach to Matching Big Data Sources in a Semi structured Data Warehouse Context (Chiatsè Mireille Patricia Anassin)	Moderator: Dr BROU Konan Marcelin

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	10:00-10:15: #348467: Financial Cost sensitive Feature Selection Method based on Association rule applied to credit scoring (Ghislain Dorian Tchuenté Mondjo)	
	10:15-10:30: Workshop - Emerging Technologies #348494: Blockchain as an Alternative for Transparency and Optimal Handling of Microcredits in the Democratic Republic of Congo (Jonathan Kabemba Ntumbwa) #350666 Miniature metamaterial match antenna for body worn sensors (BROU Pacôme)	
	10:30-10:45: PHD #348031: Improving smart contract security using sequential models (Rosaire Senou)	
	10:45-11:00: #351429: The limit of direct modulation in an FTTH/GPON architecture (Zakaria Damoué)	
11:00 – 11:30	COFFEE BREAK	
11:30 – 12:45	SESSION 7 : ARTIFICIAL INTELLIGENCE (AI) AND MACHINE LEARNING (ML) APPLICATIONS	
	11:30-11:45 353979 Workshop - Internet Services Impact of climate in modeling the evolution of COVID-19 cases in Ivory Coast (Donilemin Jules Silue)	Moderator: Dr (MC) ACHIEPO Odilon
	11:45-12:00: #351476: Preventing Typosquatting with IDN Conversion: A Siamese Neural Network Approach (Evrard Cabrel Nguemeyou Tchouangang)	

	<p>12:00-12:15: #351475: Enhancing LoRaWAN Network Performance with Reinforcement Learning: Mitigating Collisions and Reducing Energy Consumption (Pape Abdoulaye FAM)</p>	
	<p>12:15-12:30: #351241: Detection and Treatment of Various Rice Diseases in Benin Using AI: From Bibliometric Analysis to Survey (Alfred Adinsi)</p> <p>12:30-12:45 351471 Last Track An Edge-AI-Based Monitoring of Rift Valley Fever Vectors Using Deep Learning (Diongue Dame)</p>	
13:00-14:00	LUNCH	
14:00 – 14:45	SESSION 8 : ARTIFICIAL INTELLIGENCE (AI) AND MACHINE LEARNING (ML) APPLICATIONS	
	<p>14:00-14:15: #350675: Detection of malicious Android applications based on verification of indicators of compromise and Machine Learning techniques. (Théodore Dama)</p> <p>14:15-14:30: #348576: Two Phases Feature Selection Method based on Association Rules (Ghislain Dorian Tchuenta Mondjo)</p> <p>14:30-14:45 #351239: Stationary Wavelet Transform Based Watermarking for Telemedicine Image Security (Aminata Ngom)</p> <p>14:45-15:00: #351440: Exploring Human personality traits in Phishing Success: Contextual Cybersecurity Study. (Robert Makila)</p>	Moderator: Dr JOFACK SOKENG Valère Carin
15:00 – 15:30	COFFEE BREAK	

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15:30 – 16:45	SESSION 9: ARTIFICIAL INTELLIGENCE (AI) AND MACHINE LEARNING (ML) APPLICATIONS	
	<p>15:30-15:45: #350676: Optimizing Real-time Video Analytics for Resource-Constrained Environments (Rodrique Kafando)</p>	Moderator: Dr KOUADIO Pascal
	<p>15:45-16:00: #348358: A New Convolutional Neural Network Approach for Image Classification (N'Diffon Charlemagne Kopoin)</p>	

	<p>16:00-16:15: #349914: Text-to-OWL: Automated Ontology Construction for Tuberculosis Treatment Recommendation using Generative AI. (Ouédraogo Zonabo)</p>	
	<p>16:15-16:30: #350361: Fakipedia: Building and exploiting an AI model for detecting online fake news in Burkina Faso (Yaméogo S. Angelique)</p>	
	<p>16:30-16:45: #348340 : Using A Bidirectional Decoder Model with Attention Mechanisms for Biomedical Named Entity Recognition (Brou Konan Marcellin)</p>	
16:45 – 17:30	<p>SESSION 10 : ARTIFICIAL INTELLIGENCE (AI) AND MACHINE LEARNING (ML) APPLICATIONS</p>	
	<p>16:45-17:00: #348352: Detection of COVID-19 using machine learning techniques. (Diako Doffou Jérôme)</p>	Dr Narcisse TALLA
	<p>17:00-17:15: #352434: Text mining-based approach for extracting thematic keywords from a corpus of French-language documents in order to enrich a lexicon related to food security (Rabiatou Zampaligre)</p>	
	<p>17:15-17:30: #352424: Proposal of a method to improve web user tracking systems through browser fingerprinting (Dao Goya Adama Désiré)</p>	
	<p>17:30-17:45 353973 Monitoring the Compliance and Response to the COVID-19 Lockdown in South Africa, and Analysing the Impact thereof Sthembile Mthethwa</p> <p>17.45-18;00 Regression Model-based energy prediction approach for IoT Oriented system Khanyisile Mkhonza</p>	
18 :00 18:30	<p>Closing ceremony - Introductory remarks - Speech of the General Chairman - Speech of the High Education Minister or his representative</p>	- M. Ceremony - General Chair - Minister