



UNIVERSITY *of* MAURITIUS



MAURITIUS SECTION

NEXTCOMP 2022

3rd International Conference on

**NEXT
GENERATION
COMPUTING
APPLICATIONS**

06 - 08 OCTOBER 2022

**CONFERENCE
PROGRAMME**



DAY 1-Thursday 06 October 2022			
8.30 AM-9.30 AM	Registration		
9.30 AM-10.05 AM	<p style="text-align: center;">Opening Ceremony</p> <p style="text-align: center;">Welcome Address by General Chair, Assoc. Prof. (Dr.) (Mrs.) Maleika Heenaye-Mamode Khan, FoICDT, University of Mauritius (09:35am - 09:40am)</p> <p style="text-align: center;">Address by Vice-Chancellor, Professor Sanjeev Kumar SOBHEE, University of Mauritius (09:40am - 9:50am)</p> <p style="text-align: center;">Address by Vice-Prime Minister, Minister of Education, Tertiary Education, Science and Technology, Honourable Mrs. Leela Devi DOOKUN-LUCHOOMUN, GCSK, MP (09:50am - 10:05am)</p> <p style="text-align: center;">(Venue: Isle de France - Ballroom)</p>		
10.05 AM-10.30 AM	TEA BREAK (Venue: Foyer)		
10.30 AM-11.00 AM	<p style="text-align: center;">Keynote Address-1 by Professor Gao: "The State of the Art Artificial Intelligence (AI) in Medical Applications"</p> <p style="text-align: center;">(Venue: Isle de France - Ballroom)</p>		
11.00 AM-12.30 PM	DAY 1-SESSION 1		
	Track 1: Intelligent Systems and Applications Session Chair: Dr. N. Choramun Venue: Ravanne	Track 2: ICT4D Session Chair: Mrs. S. Cheerkoot-Jalim Venue: Isle de France - Ballroom	Track 3: Security and Communications Technologies Session Chair: Dr. (Mrs.) S. Armoogum Venue: Maravanne
	P1 - Laurie Butgereit. Initial Work Towards an Architecture for a Smart Fourth Party in an Online Dispute Resolution Platform	P9 - Malusi Sibiyi, Sithembile Nkosi, Sifiso Xulu. Optimised Detection of Anredera Cordifolia (Madeira Vine) using a Mask-RCNN and Anredera Cordifolia's Prominent Features as Object Classes	P8 - Nan Xu, Mutian Li, Wenyan Kong, Yang Li, Yang Wang, Hongyu Yu, Jinglei Yang. RFID with Multi-Sensing & Blockchain Empowered Digitalization of Chemical Inventory Management
	P2 - Aatish Chiniyah, Dyan Tannoo, Meekshi Jaunkeepsad, Humaïra Baichoo. Touchless Advertising Mobile Application - TaMa	P12 - Chantal Fuhrer. The Contribution of Telework to Resilience: Covid-19 Analysis	P14 - Florian Kaiser, Leon Andris, Tim Tennig, Jonas Iser, Marcus Wiens, Frank Schultmann. Transitions from Threat Hunting and Automated Incident Response
	P10 - Suraj Juddoo, Investigating Data Repair Steps for EHR Big Data	P15 - Mrinal Sharma, Ameerah Assotally, Girish Bekaroo. RaspiMonitor: A Raspberry Pi Based Smart Home Monitoring System	P22 - Abheenesh Kejiou, Girish Bekaroo. A Review and Comparative Analysis of Vulnerability Scanning Tools for Wireless LANs
	P11 - Oluwande Adewoyin, Janet Wesson, Dieter Vogts. User Modelling for Behavioural Modelling in Smart Environments	P25 - Caitlin Armstrong, Sumarie Roodt, Sarah Mulaji. Using Digital Game-Based Learning to Engage the Net Generation of Students in Higher Education: Lecturers' Perceptions in South Africa	P27 - Yoganand Kissoon, Girish Bekaroo. Detecting Vulnerabilities in Smart Contract within Blockchain: A Review and Comparative Analysis of Key Approaches
	P23 - Muhammad Muzzammil Auzine, Preeti Bissoonauth-Daiboo, Maleika Heenaye-Mamode Khan, Sunilduth Baichoo, Xiaohong Gao, Nuzhah Gooda Sahib. Classification of Artefacts in Endoscopic Images using Deep Neural	P26 - Eric Di Benedetto, Alain Cucchi. A Bibliometric Analysis of Privacy Concerns	P39 - Matthias Rüb, Jan Herbst, Hans Dieter Schotten, Christoph Lipps. No One Moves like You: AI based Behavioral Biometric Authentication

	P33 - Khadiime Jhumka, Muhammad Muzzammil Auzine, Mohammad Shoab Casseem, Maleika Heenaye-Mamode Khan, Zahra Mungloo-Dilmohamud. Chronic Kidney Disease Prediction using Deep Neural Network		
12.30 PM-1.30 PM	LUNCH (Venue: Pomme d'Amour)		
1.30 PM-2.00 PM	Keynote Address-2 by Professor G R Sinha : "Intelligent Computing and Intervention for Augmented Mental Health and Community Wellbeing" (Venue: Isle de France - Ballroom)		
2.00 PM-3.15 PM	DAY 1-SESSION 2		
	Track: Industry session Session Chair: Dr. O. Gukhool Venue: Ravanne	Track 2: ICT4D Session Chair: Assoc. Prof (Dr.) S. Pudaruth Venue: Maravanne	Doctoral Consortium Session Chair: Dr. (Mrs.) B. Gobin-Rahimbux Venue: Isle de France - Ballroom
	Ceridian Mauritius Ltd - Thielamay Anoushka, Kurmally Irshad. How we make work life better through Research, Innovation & Technology?	P30 - Paramasiven Appavoo, Anuja Meetoo-Appavoo. eExam Framework for Programming Classes	A1 - Auzine Muhammad Muzzammil. Prediction of Colorectal Cancer using Deep Neural Network and Explainable Artificial Intelligence
	Objectivity Software Services Ltd - Julia Orłowska. Generating Business Value From Machine Learning	P34 - Settapong Malisuwan, Charnvit Munikanond, Cattleya Delmaire, Wassana Kaewphanuekrungsi. Earth Observation Ground Station Systems of KMITL-ECSTAR Research Center	A2 - Iyavoo Amaren Pillay. Development of a New Mechanism for a Visible Light 5G System using Deep Learning Framework to Attain Low-Latency Content Delivery in Vehicular Networks
	Infosys Ltd - Gunoo Sundeep. Infosys Zero Disruption Modernization	P38 - Rovishen Patten, Avinash Mungur. Smart Irrigation System Using LoRaWAN	A3 - Bholah Abhishek Mahendranath. An Approach to Improve Containerization on Serverless Platform
	Accenture - Madhoo Bishan Kumar. Sustainability by Design	P43 - Anthea van der Hoogen, Brenda Scholtz, André Calitz. Expert Views on Value Alignment for Stakeholders in Smart Cities	A4 - Bissoonauth-Daiboo Preeti. Artefact Detection and Classification in Esophagus Endoscopic Images
			A5 - Casseem Mohammad Shoab Ibne Saleem. Age Invariant Face Recognition System for Passport
3.15 PM-3.30 PM	TEA BREAK (Venue: Foyer)		

DAY 1-SESSION 3			
3.30 PM-5 PM	Track 1: Intelligent Systems and Applications Session Chair: Dr. (Mrs.) Z. Mungloo-Dilmohamud Venue: Ravanne	Track 2: ICT4D Session Chair: Dr. R. Elaheebocus Venue: Maravanne	Doctoral Consortium Session Chair: Dr. (Mrs.) B. Gobin-Rahimbux Venue: Isle de France - Ballroom
	P24 - Xiaohong Gao, Maleika Heenaye Mamode Khan, Rui Hui Yu Qian, Alice Gao, Sunilduth Baichoo, Zhengmeng Tian. COVID-VIT: Classification of Covid-19 from 3D CT Chest Images Based on Vision Transformer Models	P44 - Ebere Ogechi, Visham Ramsurrun, Preetila Seeam, Panagiota Katsina, Sumit Anantwar, Mrinal Sharma, Amar Seeam. NFC tag based mHealth Patient Healthcare Tracking System	A6 - Ujoodha Kousraj. A Kreol Morisien Text-To-Speech Synthetizer
	P28 - Felix Kruse, Christoph Schröer, Jan-Philipp Awick, Jorge Marx Gómez, Jan Reinkensmeier. Towards An Automated Record Linkage Process for Datasource-Independent Company Matching	P45 - Jannish Purmaissur, Amar Seeam, Visham Ramsurrun. Rapid Prototyping of the SmartAR Augmented Reality Control Platform for Multiple Use Cases	A7 - Yarroo Bibi Faatimah Shagufta. An Automatic Speech Transcriber for Audio News in Kreol Morisien
	P37 - Alyssa Whale, Brenda Scholtz. A Theoretical Classification of Organizational Success Factors for Workplace Learning Analytics	P47 - Sylvie Michel, Gerbaix Sylvie, Bidan Marc. A Plea for Choosing Ex Ante an Ethical Theoretical Position for a Relevant Response to Ethical Issues Posed by Algorithmic Systems.	A8 - Jhumka Muhammad Cheik-Al-Khadiime. Detection and Classification of Kidney Abnormalities using Deep Learning and Attention Model
			A9 - Nazurally Azina. An analysis of AI and Drone Technologies to Monitor Beach Erosion in Mauritius
			A10 - Pokhun Leevesh Kumar. A Comparison of Machine Learning Techniques for Cyberbullying Detection
			A11 - Pravesh Bhungee. Extending the features of data plane in existing Software Defined Networks through P4.
	7.00 PM-10.30 PM	DAY 1-GALA DINNER (Venue: Isle de France - Ballroom)	

DAY 2 - Virtual Presentation Friday 07 October 2022			
9.30 AM-11.00 AM MUT (Mauritius Local Time)	Slot	Session Chair: Dr. (Mrs.) Z. Mungloo-Dilmohamud Venue: Virtual Space 1	Session Chair: Dr. N. Chooramun Venue: Virtual Space 2
	Zoom Link	https://zoom.us/j/92395701417	https://zoom.us/j/92759241144
	9.30 AM	P31 - Andre Calitz, Margaret Cullen, Ryno Boshoff. Internet Management Practices at Higher Education Institutions in South Africa	P32 - Johannes Schering, Jorge Marx Gómez, Lukas Gerdes, Federico Alfaro. Citizen Reportings and its Application to Bike Infrastructure Quality Assessment
	9.45 AM	P35 - Andre Calitz, Margaret Cullen, Simbarashe Mamombe. Predictive Analysis of Fuel Prices using Machine Learning	P41 - Haula Galadima, Amar Seeam, Visham Ramsurrun. Cyber Deception and Obfuscation using Moving Target Defence Framework via Software Defined Networking against DDOS in SDN IOT-EDGE Computing Networks
	10.00 AM	P49 - Washeem Muhammad Jaunoo, Leckraj Nagowah. Trafik Moris: A Serious Game for Mediated Learning on Traffic Behavior and Safety Awareness	P51 - Yuvna Ramchureetoo, Visham Hurbungs. A Multiclass Classification Model to Estimate Agile User Stories
	10.15 AM	P50 - Deekshita Bundhoo, Leckraj Nagowah. Gaming With OOP Learn: Teaching OOP Concepts Through a Mobile Serious Game	

Organising Committee

Honorary Chair: Professor (Dr.) Wolfgang Heiden Hochschule Bonn-Rhein-Sieg - University of Applied Sciences Sankt Augustin, Germany

Conference Chair: Associate Professor (Dr.) (Mrs) Maleika Heenaye-Mamode Khan, University of Mauritius

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Assistant Professor (Dr.) Sur Samarendra Nath, Sikkim Manipal University, India

Assistant Professor (Dr.) Thakur Prabhat, Symbiosis Institute of Technology, India

Track Chairs

Intelligent Systems and Applications: Dr. Nitish Chooramun and Dr (Mrs.) Zahra Mungloo-Dilmohamud, University of Mauritius

ICT4D: Dr. Baby Ashwin Gobin-Rahimbux and Mrs. Sudha Cheerkoot-Jalim, University of Mauritius

Security and Communication Technologies: Associate Professor (Dr.) Sameerchand Pudaruth and Dr. (Mrs.) Sheeba Armoogum, University of Mauritius

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