UNIVERSITY *of* MAURITIUS

IEEE
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	**Opening Ceremony** **Welcome Address by General Chair, Assoc. Prof. (Dr.) (Mrs.) Maleika Heenaye-Mamode Khan,** **FoICDT, University of Mauritius (09:35am - 09:40am)** **Address by Vice-Chancellor, Professor Sanjeev Kumar SOBHEE, University of Mauritius (09:40am - 9:50am)** **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)** **(Venue: Ilse de France - Ballroom)**
10: 05AM-10.30 AM	**TEA BREAK (Venue: Foyer)**
10.30 AM-11.00 AM	**Keynote Address-1 by Professor Gao: "The State of the Art Artificial Intelligence (AI) in Medical Applications"** **(Venue: Ilse de France - Ballroom)**

	DAY 1-SESSION 1		
	Track 1: Intelligent Systems and Applications **Session Chair: Dr. N. Chooramun** **Venue: Ravanne**	**Track 2 - ICT4D** **Session Chair: Mrs. S. Cheerkoot-Jalim** **Venue: Ilse de France - Ballroom**	**Track 3 - Security and Communications Technologies** **Session Chair: Dr. (Mrs.) S. Armoogum** **Venue: Triangle**
11.00 AM-12.30 PM	P1 - Laurie Butgereit. Initial Work Towards an Architecture for a Smart Fourth Party in an Online Dispute Resolution Platform	P9 - Malusi Sibiya, 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 Chiniah, Dyan Tannoo, Meekshi Jaunkeepersad, 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

	Paper 41 - 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

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: Ballroom)**

	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: Triangle**	**Doctoral Consortium** **Session Chair: Dr. (Mrs.) Dr. B. Gobin-Rahimbux** **Venue: Ilse de France - Ballroom**
2.00 PM-3.15 PM	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 - Semba Justyna. Generating Business Value From Machine Learning	P32 - Johannes Schering, Jorge Marx Gómez, Lukas Gerdes, Federico Alfaro. Citizen Reportings and its Application to Bike Infrastructure Quality Assessment	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	P34 - Settapong Malisuwan, Charnvit Munikanond, Cattleya Delmaire, Wassana Kaewphanuekrungsi. Earth Observation Ground Station Systems of KMITL-ECSTAR Research Center	A3 - Bholah Abhishek Mahendranath. An Approach to Improve Containerization on Serverless Platform
	Accenture - Madhoo Bishan Kumar. Sustainability by Design	P38 - Rovishen Patten, Avinash Mungur. Smart Irrigation System Using LoRaWAN	A4 - Bissoonauth-Daiboo Preeti. Artefact Detection and Classification in Esophagus Endoscopic Images
		P43 - Anthea van der Hoogen, Brenda Scholtz, André Calitz. Expert Views on Value Alignment for Stakeholders in Smart Cities	A5 - Casseem Mohammad Shoaib Ibne Saleem. Age Invariant Face Recognition System for Passport
3.15-3.30 PM	**TEA BREAK (Venue: Foyer)**		

	DAY 1-SESSION 3		
	Track 1: Intelligent Systems and Applications **Session Chair: Dr. (Mrs.) Z. Mungloo-Dilmohamud** **Venue: Ravanne**	**Track 2 - ICT4D** **Session Chair: Dr. R. Elaheebocus** **Venue: Triangle**	**Doctoral Consortium** **Session Chair: Dr.(Mrs.) Dr. B. Gobin-Rahimbux** **Venue: Ilse de France - Ballroom**
3.30 PM- 5PM	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-Independet 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
	P33 - Khadiime Jhumka, Muhammad Muzzammil Auzine, Mohammad Shoaib Casseem, Maleika Heenaye-Mamode Khan, Zahra Mungloo-Dilmohamud. Chronic Kidney Disease Prediction using Deep Neural Network	P47 - Sylvie Michel, Gerbaix Sylvie, Bidan Marc. A Plea for Choosing Ex Ante an Ethical Theorical Position for a Relevant Response to Ethical Issues Posed by Algorithmic Systems.	A8 - Detection and Classification of Kidney Abnormalities using Deep Learning and Attention Model
	P37 - Alyssa Whale, Brenda Scholtz. A Theoretical Classification of Organizational Success Factors for Workplace Learning Analytics		A9 - Nazurally Azina. An analysis of AI and Drone Technologies to Monitor Beach Erosion in Mauritius
			A10 - Pokhun Leeveshkumar. A Comparison of Machine Learning Techniques for Cyberbullying Detection
7:00 PM - 10:30 PM	**DAY 1-GALA DINNER (Venue: Ilse de France - Ballroom)**		

9.30 AM-11:00 AM MUT (Mauritius Local Time)	**DAY 2 - Virtual Presentation Friday 07 October 2022**
	Track 1: Intelligent Systems and Applications **Session Chair: Dr. N. Chooramun/Dr. (Mrs.) Z. Mungloo-Dilmohamud** **Venue: Virtual Space**
	P31 - Andre Calitz, Margaret Cullen, Ryno Boshoff. Internet Management Practices at Higher Education Institutions in South Africa
	P35 - Andre Calitz, Margaret Cullen, Simbarashe Mamombe. Predictive Analysis of Fuel Prices using Machine Learning
	P49 - Washeem Muhammad Jaunoo, Leckraj Nagowah. Trafik Moris: A Serious Game for Mediated Learning on Traffic Behavior and Safety Awareness
	P50 - Deekshita Bundhoo, Leckraj Nagowah. Gaming With OOP Learn: Teaching OOP Concepts Through a Mobile Serious Game
	P51 - Yuvna Ramchureettoo, Visham Hurbungs. A Multiclass Classification Model to Estimate Agile User Stories

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
Co-Chair: Associate Professor (Dr.) Kavi Kumar Khedo, University of Mauritius

Technical Programme Committee
Chair: Dr. Avinash Mungur, University of Mauritius
Co-Chair: Mr. Visham Hurbungs and Mrs. Vidasha Ramnarain-Seetohul, University of Mauritius

TPC Members
Associate Professor (Dr.) Barik Rabindra K., Kalinga Institute of Industrial Technology, India
Dr. Butgereit Laurie, Nelson Mandela University, South Africa
Professor Cucchi Alain, University of Reunion Island
Dr. Heiko,Gewald , Neu-Ulm University of Applied Sciences, Germany
Dr. Jha Meena, Central Queensland University, Australia
Assistant Professor Majumdar Parijata, Techno College of Engineering Agartala, Maheshkhola, Tripura, India
Associate Professor (Dr.) Mallick Pradeep Kumar Kalinga, Institute of Industrial Technology, India
Assistant Professor Mohapatra Subhasish, Adamas University, India
Professor Pena Carlos, University of Applied Sciences, Switzerland
Dr. Sébastien Véronique, University of Reunion Island
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

Conference Secretariat & Registration
Mr. Aatish Chiniah, University of Mauritius
Dr. Roushdat Elaheebocus, University of Mauritius
Mr. Swadeq Rosun, University of Mauritius

Local Arrangement and Finance
Dr. Baby Ashwin Gobin-Rahimbux, University of Mauritius
Dr. Raj Moloo, University of Mauritius
Associate Professor (Dr.) Sameerchand Pudaruth, University of Mauritius
Associate Professor (Dr.) Roopesh Kevin Sungkur, University of Mauritius
Mr. Somveer Kishnah, University of Mauritius

Publications
Dr. Anisah Ghoorah, University of Mauritius
Dr. Roushdat Elaheebocus, University of Mauritius
Associate Professor (Mrs.) Soulakshmee Devi Nagowah, University of Mauritius
Mrs. Sudha Cheerkoot-Jalim, University of Mauritius
Mrs. Zarine Cadersaib, University of Mauritius

Publicity
Associate Professor (Dr.) Roopesh Kevin Sungkur, University of Mauritius
Dr. (Mrs.) Zahra Mungloo-Dilmohamud, University of Mauritius
Mr. Selvanaden Gavin Sathan, University of Mauritius
Mr. Khusal Jugurnath, University of Mauritius

Sponsorship
Dr. Oomesh Gukhool, University of Mauritius
Dr. (Mrs.) Sheeba Armoogum, University of Mauritius
Dr. Nitish Chooramun, University of Mauritius

Website
Mr. Leckraj Nagowah, University of Mauritius
Mr. Somveer Kishnah, University of Mauritius