



UNIVERSITY *of* MAURITIUS



**NE****XTCOMP 2026**

5th International Conference on

**NEXT GENERATION  
COMPUTING  
APPLICATIONS**

**30 - 31 JULY 2026**

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**CONFERENCE PROGRAMME**

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DAY 1 - Thursday 30 July 2026

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8:30-9:30   | Registration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 9:30-10:30  | <p>Opening Ceremony [Venue: Cube Conference Room]</p> <p>Welcome Address by Assoc. Professor Maleika HEENAYE-MAMODE KHAN<br/>General Chair (NEXTCOMP Conference)<br/>Dean of Faculty of Information, Communication &amp; Digital Technologies<br/>University of Mauritius</p> <p>Address by Professor Kavi Kumar KHEDO<br/>Vice-Chancellor, University of Mauritius</p> <p>Address by Dr. The Honourable Avinash RAMTOHUL, MP<br/>Minister of Information Technology, Communication and Innovation</p> <p>Address by Dr. The Hon. Kaviraj Sharma SUKON, PFHEA, MP<br/>Minister of Tertiary Education, Science and Research</p> |
| 10:30-11:00 | TEA BREAK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|             | KEYNOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 11:00-11:30 | <p>Keynote Address 1 by Dr Ram HERKANAI DU<br/>Honorary Assistant Professor, University of Nottingham<br/>“Cybersecurity in the Age of AI”</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 11:30-12:00 | <p>Keynote Address 2 by Professor Tanzila SABA<br/>Professor and AIDA Lab Leader, Prince Sultan University, Saudi Arabia<br/>“Cognitive Digital Twins: The Future of Human-Centred Healthcare<br/>Intelligence” [Virtual Presentation]</p>                                                                                                                                                                                                                                                                                                                                                                                     |
| 12:00-13:00 | LUNCH [Venue: Main Restaurant]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

DAY 1 - Thursday 30 July 2026

|             | SESSION 1                                                                                                                                                                                                                |                                                                                                                                                                                                                                 |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13:00-14:30 | <b>Track 1:</b><br>Intelligent Systems and Applications<br><b>Session Chair:</b><br>Assoc. Prof. Zahra Mungloo-Dilmohamud<br><b>Venue:</b> Cube Conference Room                                                          | <b>Track 2:</b><br>ICT4D<br><b>Session Chair:</b><br>Assoc. Prof. Aatish Chiniah<br><br><b>Venue:</b> Koze Boardroom                                                                                                            |
|             | <b>Protein-Ligand Binding Energy Calculation Using Quantum Approximate Optimization technique</b><br><br>Dassen Sathan and Shakuntala Baichoo (P1)                                                                       | <b>Transforming Out-of-classroom STEM Education through Block-Based Coding: Engagement and Learning Outcomes</b><br><br>Hemraj Ramsurrun, Roushdat Elaheebocus and Aatish Chinniah (P19)                                        |
|             | <b>Edge-AI: Optimization of Fishpond Health Classification System, Using Image Recognition</b><br><br>Chinomso Okoronkwo, Victory Obodoagwu, Visham Ramsurrun, Karel Veerabudren, Mrinal Sharma and Comfort Olebara (P8) | <b>MindBoost: An AI-Powered Personalized Study Aid and Focus Management Application</b><br><br>Zahra Mungloo-Dilmohamud and Khooshboo Ramdewar (P22) (Virtual)                                                                  |
|             | <b>Deep Neural Network-based Solvers for Solving the Space-Fractional Diffusion Equation</b><br><br>Shilpa Selinska Gina Soopramanien and Nawdha Thakoor (P2)                                                            | <b>An AI-Driven Learning Analytics Framework for Learning-Style-Aware Personalised E-Learning</b><br><br>Leckraj Nagowah and Seongsook Choi (P24)                                                                               |
|             | <b>ThermaForge: Learned Adaptive Thermal Error Compensation for Machine Tools</b><br><br>Yao Yeboah, Isaac Kuma Yeboah, Kwabena Agyapong Kodua, Daneil Kwadjo Yeboah, Zeyad Farisi and Matthew Asiedu (P4)               | <b>An Empirical Study of Synthetic Data Augmentation for Few-Shot Text Classification Using Parameter-Efficient Fine-Tuning of Ultra-Lightweight Language Models</b><br><br>Vidasha Ramnarain-Seetohul and Aliyaa Jaumeer (P20) |

DAY 1 - Thursday 30 July 2026

|             | SESSION 1 (Continued)                                                                                                                                                            |                                                                                                                                                                                                             |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13:00-14:30 | <p><b>Track 1:</b><br/>Intelligent Systems and Applications</p> <p><b>Session Chair:</b><br/>Assoc. Prof. Zahra Mungloo-Dilmohamud</p> <p><b>Venue:</b> Cube Conference Room</p> | <p><b>Track 2:</b><br/>ICT4D</p> <p><b>Session Chair:</b><br/>Assoc. Prof. Aatish Chiniah</p> <p><b>Venue:</b> Koze Boardroom</p>                                                                           |
|             | <p><b>Adaptive Fuzzy Inference Systems for Age-Invariant Face Recognition</b></p> <p>Mohammad Shoaib Casseem, Maleika Heenaye-Mamode Khan and Sunilduth Baichoo (P23)</p>        | <p><b>Automatic Speech Recognition for Low-Resource Creole Languages: An Empirical Study on Kreol Morisien</b></p> <p>Bibi Faatimah Shagufta Yarroo, Baby Gobin-Rahimbux and Sameerchand Pudaruth (P17)</p> |
|             | <p><b>Tactical UAV Information Architecture for Situation Awareness and Decision Quality</b></p> <p>Cattleya Delmaire and Settapong Malisuwan (P9)<br/>(Virtual)</p>             | <p><b>MorisGuard: A Multi-Layered Toxicity Detection and Moderation System for Kreol Morisien</b></p> <p>Lomesh Takoory and Nuzhah Gooda Sahib (P12)<br/>(Virtual)</p>                                      |
| 14:30-15:00 | TEA BREAK                                                                                                                                                                        |                                                                                                                                                                                                             |

DAY 1 - Thursday 30 July 2026

|             | SESSION 2                                                                                                                                                                                             |                                                                                                                                                                                                          |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15:00-16:00 | <b>Track:</b><br>Intelligent Systems and Applications<br><b>Session Chair:</b><br>Dr Anuja Meetoo-Appavoo<br><b>Venue:</b> Cube Conference Room                                                       | <b>Workshop</b><br><br><b>Session Chair:</b><br>Assoc. Prof. Sameerchand Pudaruth<br><b>Venue:</b> Koze Boardroom                                                                                        |
|             | <b>A Mobile Portfolio-Based System for Real-Time Monitoring of Clinical Internships in Medical Education</b><br><br>Selvanaden Sathan, Zahrah Haneefa Rustom and Bibi Sumera Keenoo (P10)             | <b>Artificial Intelligence and Ayurveda: Shaping the Future of Personalized Healthcare</b><br><br>Dr Pooja Sabharwal<br>Ayurveda Chair, Faculty of Medicine and Health Sciences, University of Mauritius |
|             | <b>A Hybrid Recommender System for Personalised Matchmaking using Text Mining and Machine Learning</b><br><br>Aur lie Julie Koi-Chin and Sudha Cheerakoot-Jalim (P18)                                 | <b>Deep Learning Models and Applications</b><br><br>Mohammad Shoaib Casseem and Muhammad Muzzammil Auzine, Faculty of Information, Communication and Digital Technology, University of Mauritius         |
|             | <b>An AI-Powered Emotional Support System</b><br><br>Yusra Achaibur and Zarin Cadarsaib (P16)                                                                                                         |                                                                                                                                                                                                          |
|             | <b>Classification of Cardiac Diseases Using a Novel Selective Kernel Convolution Network with Attention Mechanism and Grad-CAM</b><br><br>Urosha Jeetun and Maleika Heenaye-Mamodekhan (P6) (Virtual) |                                                                                                                                                                                                          |
| 16:00-18:30 | <b>NETWORKING</b>                                                                                                                                                                                     |                                                                                                                                                                                                          |
| 18:30-21:30 | <b>GALA DINNER</b> [Main Restaurant]                                                                                                                                                                  |                                                                                                                                                                                                          |

09:30-10:30

**Workshop 1: Responsible AI**

Associate Professor Baby Ashwin Gobin-Rahimbux

**Link:**

<https://zoom.us/j/99382967502?pwd=2RBdsdMdS2cFZTuForeILWGhAqhjR6.1>

**NEXTCOM 2026**

**WORKSHOP SERIES**

# RESPONSIBLE AI

## Building AI Systems We Can Trust

Exploring the principles, risks and governance needed for trustworthy and **human-centered AI**.

**DATE**  
**31 JULY 2026**

**TIME**  
**9.30 – 10.30**  
(1 HOUR)

**VENUE**  
**ONLINE (ZOOM)**

**PRESENTER**

**Dr. Baby Gobin**

Associate Professor, University of Mauritius  
Researcher in Responsible & Human-Centred AI

**Core principles of Responsible AI**

**Key risks and ethical considerations**

**Governance, transparency and accountability**

**Practical approaches for responsible AI in practice**

“*AI should empower people and society, not replace or harm them.*”

**HUMAN-CENTERED**

**SAFE**

**FAIR**

**ACCOUNTABLE**

**JOIN VIA ZOOM**  
**SCAN TO JOIN**



or use the link below

<https://zoom.us/j/99382967502?pwd=2RBdsdMdS2cFZTuForeILWGhAqhjR6.1>



LET'S BUILD AI SYSTEMS THAT ARE **ETHICAL, SAFE AND TRUSTWORTHY.**