

RESEARCH AREAS AND ACHIEVEMENTS

CREATE COMPUTING TECHNOLOGY AND SYSTEMS



ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Data Management & Analytics
Intelligent Systems & Optimisation
Machine Learning & Intelligence

- Research Engineer Chaithanya Shankaramurthy BASRUR, PhD Graduate Arambam James SINGH, Arunesh SINHA** (Former Faculty), **Associate Prof. Akshat KUMAR** received the Best Demonstration Award at the International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2021) for the demonstration "Ship-GAN: Generative Modeling Based Maritime Traffic Simulator".
- Prof. Jing JIANG** and **Prof. LIM Ee-Peng** received the Test of Time Award at the European Conference on Information Retrieval (ECIR 2021) for their paper "Comparing Twitter and Traditional Media Using Topic Models".



HUMAN-MACHINE COLLABORATIVE SYSTEMS

Pervasive Sensing & Systems
Multimedia
Human-Computer Interaction

- Assistant Prof. WANG Yong** received the Best Paper Honorable Mention at the ACM Conference on Human Factors in Computing Systems (CHI 2022) for the paper "Structure-aware Visualization Retrieval".
- Associate Prof. Rajesh Krishna BALAN** received the Distinguished Paper Award at the Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT 2021) for the paper "HeartQuake: Accurate Low-Cost Non-Invasive ECG Monitoring Using Bed-Mounted Geophones".



INFORMATION SYSTEMS & TECHNOLOGY

Software Engineering & Systems
Cybersecurity
Information Systems Management

- Research Scientist Ferdian THUNG, PhD Graduate WANG Shaowei, Prof. David LO, Associate Prof. JIANG Lingxiao** received the Test-of-Time Award at the 33rd IEEE International Symposium on Software Reliability Engineering (ISSRE 2022) for the paper "An Empirical Study of Bugs in Machine Learning Systems".
- Bowen ZHAO, Yingjiu LI, Ximeng LIU, Prof. PANG Hwee Hwa, Prof. Robert H. DENG** received the Best Paper Award (Main Track) at the 5th IEEE Conference on Dependable and Secure Computing (IEEE DSC 2022) for the paper "FREED: An Efficient Privacy-Preserving Solution for Person Re-Identification".



SMU

SINGAPORE MANAGEMENT UNIVERSITY

Singapore Management University (SMU) was established in year 2000 as a specialist university focusing on Computing, Management, and Social Sciences. The **School of Computing and Information Systems** is the only SMU school offering research and education programmes in STEM (Science, Technology, Engineering and Math) disciplines.



EDUCATION PROGRAMMES AND HIGHLIGHTS

EDUCATION IN COMPUTING TECHNOLOGY AND SOLUTION DEVELOPMENT

UNDERGRADUATE

B.Sc. (Information Systems)
B.Sc. (Computer Science)
B.Sc. (Computing and Law)
B.Sc. (Software Engineering) SkillsFuture WorkStudy Degree

POSTGRADUATE PROFESSIONAL

Master of IT in Business (MITB)
MITB was placed within the top 2 in Asia for the fourth year running in the 2022 QS World University Rankings for Masters in Business Analytics.

DOCTORAL

Ph.D. in Computer Science
Ph.D. in Information Systems
Doctor of Engineering

- Associate Prof TAN Kar Way's** "Analytics Applications for Smart Living" course won the Developing Emerging Skills and Competencies (Bronze) Award at the 2022 QS Reimagine Education Awards.
- The paper by Associate Prof SHAR Lwin Khin, Assistant Prof Chris Poskitt, Assistant Prof Kyong Jin SHIM** titled "XSS for the Masses: Integrating Security in a Web Programming Course using a Security Scanner" was nominated for Best Paper Award at the 27th ACM Conference on Innovation and Technology in Computer Science Education (ITICSE2022).

FACULTY, STUDENTS AND ALUMNI

Prof David LO has been elevated to Fellow of the Institute of Electrical and Electronics Engineers as well as Automated Software Engineering in 2022. Additionally, he was awarded the Singapore National Research Foundation Investigatorship in 2022, and he received the Distinguished Service Award from the IEEE Technical Council on Software Engineering in 2021. — **A**

Prof JIANG Jing was named in the 2021 Singapore 100 Women in Tech (SG100WIT) Honour List, organised by the Singapore Computer Society in partnership with the Infocomm Media Development Authority to recognise and celebrate women based in Singapore who have been inspiring their communities and making significant contributions to the tech industry. — **B**

MITB graduate Nikita GUPTA was featured by The NYC Journal among the Top 30 Female Entrepreneurs to Look Out for in 2022.

Ph.D. graduate Meghna LOWALEKAR received the Best Dissertation Award at the 2022 International Conference on Automated Planning and Scheduling.

Ph.D. student KANG Hong Jin received an ACM SIGSOFT Distinguished Paper Nomination for his paper "Detecting False Alarms from Automatic Static Analysis Tools: How Far are We?" at the 2022 International Conference on Software Engineering.

Four of our alumni were named in the 2022 Forbes 30 under 30 Asia List for inspiring change and driving innovation: **Jeremy LEE** (top left) founded SimplyGood, a home care brand producing eco-friendly water-soluble cleaning tablets that reduce single-use plastics. **Shaun John CHEETHAM** (bottom left) and **Derrick LEE** (bottom right) launched the TrustTech platform that enables more than 800 enterprises in the health, education, defence, corporate services and aviation sectors to automate and secure information exchange. **Joshua PHUA** (top right) co-founded Kinobi, a digital career accelerator that offers tools such as an automated resume builder, a common career question bank, and video-based courses to 51 university partners across Singapore, Indonesia and Philippines and is used by more than 200000 users. — **C**

FACULTY

49

Tenure Track

30

Term Track

Search is underway for multiple faculty positions, across all ranks and all tracks.

STUDENTS

99

in Ph.D Programme

491

in Professional Master Programmes

2205

in B.S.c Programmes

Metrics updated as of 31 October 2022

