RESEARCH IN COMPUTING TECHNOLOGY AND SYSTEMS

CORE RESEARCH AREAS

ARTIFICIAL INTELLIGENCE & DATA SCIENCE
- Data Management & Mining
- Decision Making & Optimisation
- Machine Learning & Intelligence

HUMAN-MACHINE COLLABORATIVE SYSTEMS
- Pervasive Sensing & Systems
- Multimedia Systems
- Human-Computer Interaction

INFORMATION SYSTEMS & TECHNOLOGY
- Software Engineering & Systems
- Cybersecurity
- Information Systems Management

+ RESEARCH CENTRES AND LABS

A*STAR-SMU Joint Lab in Social and Human-Centered Computing

To conduct research which integrates social sciences and humanities disciplines with advances in computational intelligence and digital technologies.

Secure Mobile Centre (SMC)

Established following an announcement by the National Research Foundation (NRF) on awarded projects under the National Cybersecurity R&D programme.

SMC currently hosts the National Satellite of Excellence in Mobile Systems Security and Cloud Security (NSoE MSS-CS).

Centre for Research on Intelligent Software Engineering (RISE)

To conduct both applied and fundamental research in the intersection of software engineering, artificial intelligence, and cybersecurity for improving software quality and reducing costs.
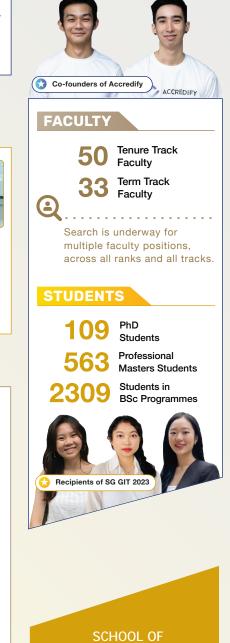
Research Lab for CollaborAtive, Robust and Explainable AI-based Decision Making

To build trustworthy (robust and explainable) AI decision making frameworks and systems that collaborate with humans and/or other AI systems. The initial focus of the lab is on developing frameworks for trustworthy training and situated assistance for non-expert humans in safety critical environments.

EDUCATION IN COMPUTING TECHNOLOGY AND SOLUTION DEVELOPMENT

+ EDUCATION

Undergraduate

B.Sc. (Information Systems)

B.Sc. (Computer Science)

B.Sc. (Computing and Law)

B.Sc. (Software Engineering) SkillsFuture Work-Study Degree

Postgraduate Professional

Master of IT in Business (MITB)

🔔 MITB is placed 2nd in Asia and 24th globally in the 2024 QS World University Rankings for Masters in Business Analytics.

Doctoral

Ph.D. in Computer Science

Ph.D. in Information Systems

Doctor of Engineering

FACULTY, STUDENTS AND ALUMNI

- ▸ **Assistant Prof Guansong PANG** received the Best Paper Award (Applications Track) at the 10th IEEE International Conference on Data Science an Advanced Analytics for the paper "HRGCN: Heterogeneous Graph-level Anomaly Detection with Hierarchical Relation-augmented Graph Neural Networks".

- ▸ **Assistant Prof XIE Xiaofei** received the ACM Distinguished Paper Award at the 38th IEEE/ACM International Conference on Automated Software Engineering for the paper "EndWatch: A Practical Method for Detecting Non-Termination in Real-World Software".

- ▸ **OUB Chair Prof David LO** received the NRF Investigatorship from the Singapore National Research Foundation.

- ▸ **MSc (Computing) graduate ANG Wei Yang** and **Associate Prof SHAR Lwin Khin** received the Runner-up for 2021 Best Paper Award by the IEEE Computer Society for the paper "COVID-19 One Year On - Security and Privacy Review of Contact Tracing Mobile Apps".

- ▸ **Undergraduate students KOH Hui Qing**, **YUN WADDY Soe** and **TEH Shureen** (featured right ⭐) were named in the 2023 Singapore 100 Girls (SG GIT 2023) in Tech list, while **alumni Joanna TEO**, **TAI Shi Ling** and **BEH Min Yan** were included in the 2023 Singapore 100 Women in Tech list.

- ▸ **Undergraduate and MITB students Jowett CHNG**, **LEE Wei Khiang**, **Ezekiel GHE**, **Faisal Ichsan SAMUDRA** and **TAN Yee Sen** clinched the top prize at the Singapore Civil Defence Force and Dell LifeSavers' Innovation Challenge 2023. They also won the Best Cloud Native Technologies award.

- ▸ **Alumni Derrick LEE** and **Shaun John CHEETHAM** (featured right ⭐) co-founded Accredify to securely verify documents such as educational qualifications, corporate registries, and medical certificates. It has processed 12 million verifications on 2 million documents and served 600 users. It recently raised $7 million in Series A funding.

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.

⭐ Co-founders of Accredify — ACCREDIFY

FACULTY

50 Tenure Track Faculty

33 Term Track Faculty

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

STUDENTS

109 PhD Students

563 Professional Masters Students

2309 Students in BSc Programmes

⭐ Recipients of SG GIT 2023

SCHOOL OF COMPUTING AND INFORMATION SYSTEMS