<u>Media Release</u>

SMU faculty member David Lo is the fourth academic in Singapore and the first from the University to achieve prestigious ACM Fellow recognition in 2023

At 40, Prof David Lo has been inducted into the 2023 class of ACM Fellows, along with the inventor of the World Wide Web

Singapore, 05 February 2024 (Monday) - Singapore Management University (SMU) is proud to announce that one of its faculty members from the School of Computing and Information Systems (SCIS) has been honoured as a Fellow of the Association for Computing Machinery (ACM). David Lo is OUB Chair Professor of Computer Science, and the Director of the Information Systems & Technology Cluster at SMU's SCIS.

ACM, the largest professional organisation for computing, is also renowned for issuing the Turing Award, the 'Nobel Prize in Computing'. Founded in 1947 and boasting a global membership of nearly 110,000, ACM is recognised for advancing computing as a science and profession, and ACM Fellows represent the most prestigious member grade, with new Fellows inducted annually.

Professor Lo, 40, is among the 68 new Fellows worldwide [recently named](#) by ACM for their transformative contributions to computing science and technology, and is the fourth academic in Singapore to receive this recognition. The 2023 class of ACM Fellows includes four past winners of the Turing Award (also known as Turing laureates), namely Tim Berners-Lee, the inventor of the World Wide Web (who won the [Turing Award in 2016](#)); and Yoshua Bengio, Geoffrey Hinton, and Yann LeCun, pioneers of deep learning (who won the [Turing Award in 2018](#)).

Prof Lo said of this prestigious achievement, "I am deeply humbled by this recognition and sincerely grateful for the support of SMU SCIS, as well as my advisors, mentors, colleagues, students, trainees, and collaborators. I am excited to continue contributing to computing research, especially in the fields of software engineering, artificial intelligence, and cybersecurity, as a member of a vibrant group of researchers at SCIS and SMU."

Dean of SCIS, Professor of Computer Science Pang Hwee Hwa, remarked, "The School is very proud of Prof Lo's research leadership and his ground-breaking work in synergising artificial intelligence and software engineering. With his induction as an ACM Fellow, we look forward to him continuing to inspire his peers and his students towards more exciting innovations that put SMU on the world map."

"The announcement each year that a new class of ACM Fellows has been selected is met with great excitement," said ACM President Yannis Ioannidis in its [press release](#). "ACM is proud to include nearly 110,000 computing professionals in our ranks and ACM Fellows represent just 1% of our entire global membership. This year's inductees include the inventor of the World Wide Web, the 'godfathers of AI', and other colleagues whose contributions have all been important building blocks in forming the digital society that shapes our modern world."

In the latest list of inductees for 2023, Prof Lo is one of [four researchers from institutions and a tech giant in Asia](#) to achieve this recognition – two of whom are from China while the third is from India.

The other 2023 ACM Fellows hail from global tech giants such as Meta, government agencies such as the National Aeronautics and Space Administration of the United States, and institutions including Harvard University, Columbia University and Princeton University. Their contributions span the computing field, including algorithm design, computer graphics, cybersecurity, energy-efficient computing, mobile computing, software analytics, and web search, to name a few.

Prof Lo is focused on designing and implementing effective human-centred solutions for the intelligent systems-enabled future of work. "My goal is to enable humans and intelligent agents to collaborate effectively, safely, inclusively, and responsibly," he said, "thereby contributing to societal betterment. My research delves into specific areas related to this overarching theme."

<p align="center">ENDS</p>

Enclosure:
Annexe 1 – Biography of Prof David Lo
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About Singapore Management University
[Singapore Management University](#) (SMU) is internationally recognised for its world-class research and distinguished teaching. Established in 2000, SMU's mission is to generate leading-edge research with global impact and to produce broad-based, creative, and entrepreneurial leaders for the knowledge-based economy. SMU faculty members collaborate with leading international researchers and universities around the world, as well as with partners in the business community and public sector. Visit www.smu.edu.sg for more information. www.smu.edu.sg

About SMU School of Computing and Information Science
Real-world industry sectors provide the School of Computing and Information Systems (SCIS) with a testbed and laboratory for experimentation, as well as a fertile breeding ground for new ideas. SCIS' faculty and students apply their research results to solve real problems in a variety of industry settings and to create IT applications and systems. SCIS faculty actively publishes in top-quality Computer Science and Management Science conferences and journals, in areas including Cybersecurity; Data Management & Analytics; Human-Machine Interaction; Information Systems Management; Intelligent Systems & Optimisation; Machine Learning & Intelligence; Multimedia; Sensing, Sense-Making & Activation; Software Engineering & Systems. SCIS is recognised in the industry for its educational innovations and for creating a culture of learning, establishing external linkages and partnerships with industry, government and the social sector. www.scis.smu.edu.sg

ANNEXE: <u>A biography of Prof David Lo</u>

OUB Chair Professor of Computer Science <u>David Lo</u> joined Singapore Management University's (SMU) School of Computing and Information Systems (SCIS) in 2008 as a Lecturer. As the first tenure-track faculty member in Software Engineering, he has been instrumental in advancing Software Engineering research at SMU, eventually leading to SMU's top international <u>recognition</u> in this field. He is currently the Founding Director of SMU's <u>Centre for Research on Intelligent Software Engineering</u>, and Director of SCIS' Information Systems and Technology cluster.

Lauded by the ACM for his "contributions to synergising artificial intelligence and software engineering for human-in-the-loop automation, and software analytics", Prof Lo's work has helped to shape Software Engineering research. In 2022, he was elevated to <u>IEEE Fellow</u>, the highest grade of membership in the Institute of Electrical and Electronics Engineers (IEEE), in recognition of his contributions in "synergising software engineering and data mining". In 2021, he was also recognised as a <u>Fellow of Automated Software Engineering (ASE)</u> for his contributions to the ASE conference, journal, and research community. In the same year, he clinched the prestigious <u>IEEE TCSE Distinguished Service Award</u>.

Prof Lo is leading the research project "<u>TrustedSEERs: Trusted Intelligent Work Bots for Engineering Better Software Faster</u>," funded by the National Research Foundation (NRF) under its <u>Investigatorship scheme</u>, to design trustworthy intelligent work bots for software engineers. Also, in collaboration with GovTech's Cyber Security Group, Prof Lo is leading the project "Titan Code Analysis: Vulnerability Discovery with Large Code Models". Supported by the NRF and Smart Nation Group, it aims to develop intelligent agent-powered solutions to improve cybersecurity.

Prof Lo has published over 500 research papers in leading conferences and journals as listed in <u>DBLP</u>, with over 31,000 citations on <u>Google Scholar</u> and an H-index of 95 as of January 2024. He has also won an SMU <u>Teaching Excellence Award</u> in 2022, and mentored over a dozen PhD students, who have gone on to secure positions in renowned institutions and tech giants in Singapore and worldwide.

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