

MOK, Heng Ngee

School of Computing and Information Systems
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Education

Master of Science, Nanyang Technological University, Singapore, 2004

Bachelor of Applied Science, Nanyang Technological University, Singapore, 1999

Academic Appointments

Senior Lecturer of Computer Science, School of Computing and Information Systems, SMU, Jul 2024 - Present

Lecturer of Computer Science, School of Computing and Information Systems, SMU, Jul 2021 - Jun 2024

Principal Instructor, SCIS, SMU, Singapore, Apr 2018 - Jun 2021

Senior Instructor, SCIS, SMU, Singapore, Apr 2010 - Mar 2018

Instructor, SCIS, SMU, Singapore, Apr 2006 - Mar 2010

Lecturer, School of IT, Nanyang Polytechnic, Singapore, Jan 2002 - Dec 2005

Academic Administrative Positions

Director, BSc (Software Engineering) WSDeg Programme, School of Computing and Information Systems, SMU, Nov 2021 - Present

Other Positions and Affiliations

Senior Research Analyst, Frost & Sullivan, Singapore, Jan 2006 - Mar 2006

Freelance Journalist, Special Projects, Singapore Press Holdings, Singapore, Jul 1999 - Dec 2005

Software Engineer, NCS Pte Ltd, Singapore, Jul 1999 - Dec 2003

Professional Certifications

Generative AI for Educators Certificate, Google, 2024

Google AI Essentials, Google, 2024

Certified in Cybersecurity (CC), (ISC)2, 2024 - 2027

Advanced Diploma in Corporate Banking, ifs School of Finance, 2007

Diploma in Law, University of London, 2003

Awards and Honors

National Blood Programme: Diamond Award, Singapore Red Cross, 2023

Long Service & Good Conduct Medal (2nd clasp), Singapore Police Force, 2022

SMU Faculty/Staff Contribution to Student Life Award (Individual), SMU, 2017

Commendation by Commissioner of Police, Singapore Police Force, 2007, 2005

SIM Scholarship (Grad Dip in Corp. Banking), Singapore Institute of Management, 2005

Award for Academic Achievement (Diploma in Law), University of London, 2003

Professional Memberships

Member, Singapore Computer Society, 2021

Member, ACM SIGCSE, 2018

Member, IEEE, 1999

RESEARCH

Publications

Journal Articles [Refereed]

Teaching tip: The flipped classroom, by MOK, Heng Ngee. (2014). *Journal of Information Systems Education*, 25 (1), 7-11. (Published)

Student Usage Patterns and Perceptions for Differentiated Lab Exercises in an Undergraduate Programming Course, by MOK, Heng Ngee. (2012). *IEEE Transactions on Education*, 55 (2), 213-217. <https://doi.org/10.1109/TE.2011.2162070> (Published)

Setting up a low-cost lab management system for a multi-purpose computing laboratory using virtualisation technology, by MOK, Heng Ngee; TAN, Wee Kiat. (2012). *Australasian Journal of Educational Technology*, 28 (2), 266-278. <http://www.ascilite.org.au/ajet/ajet28/mok.html> (Published)

A review of the professionalization of the software industry: Has it made software engineering a real profession?, by MOK, Heng Ngee. (2010). *International Journal of Information Technology*, 16 (1), 61-75. http://www.intjit.org/journal/volume/16/1/161_5.pdf (Published)

Books (Non-Refereed)

From Java to C#: A Java Developer's Guide by MOK, Heng Ngee. (2003). Boston, MA: Addison-Wesley Longman. (Published)

Conference Proceedings

Towards automated slide augmentation to discover credible and relevant links, by DINUSHKA, Dilan; POSKITT, Christopher M.; KOH, Kwan Chin; MOK, Heng Ngee; LAUW, Hady W.. (2024.0). *Artificial Intelligence in Education: 25th International Conference, AIED 2024, Recife, Brazil, July 8-12*, (pp. 200-208) Cham: Springer. https://doi.org/10.1007/978-3-031-64312-5_24 (Published)

Teaching basic programming to pre-university students through blended learning pedagogy: A descriptive study, by RAMACHANDRA RAO, Vandana; MOK, Heng Ngee. (2018.0). *Transactions of ISATE: The 12th International Symposium on Advances in Technology Education, Nurturing Professionals for Smart Cities: Way Forward for Technology Education, 18-21 September 2018, Hong Kong*, (pp. 1-6) Hong Kong: Vocational Training Council. (Published)

Introducing basic programming to pre-university students: A successful initiative in Singapore, by MOK, Heng Ngee; RAMACHANDRA RAO, Vandana. (2018.0). *2018 17th International Conference on Information Technology Based Higher Education and Training (ITHET): Proceedings, Olhao, Portugal, April 26-28*, (pp. 1-7) Piscataway, NJ: IEEE. <https://doi.org/10.1109/ITHET.2018.8424783> (Published)

Theses and Dissertations

Current Issues in Voice over IP (Master's thesis), by H. N. Mok. (2004). Nanyang Technological University.

Research Grants

Singapore Management University

Slide++: Automatic Augmentation of Academic Slides Towards AI-Enabled Student-Centred Learning, Tertiary Education Research Fund (TRF), Ministry of Education (MOE) , PI (Project Level): Hady W. LAUW, 2022, S\$262,196

Let' s Code! – Teaching Pre-University Students Coding Using a Blended Learning Approach, MOE Academies Fund, National Institute of Education (NIE) , PI (Project Level): MOK, Heng Ngee , Co-PI (Project Level): RAMACHANDRA RAO Vandana, 2015, S\$98,683

TEACHING

Courses Taught

Singapore Management University

Undergraduate Programmes :

- Advanced Programming and Design
- Algorithms and Programming
- Architectural Analysis
- Business Data Management
- Computational Thinking
- Data Management
- Health Economics and Management Work-study Elective
- Health Economics and Management Work-Study Elective
- Information Systems and Innovation
- Web Application Development II

OTHER ACADEMIC AND PROFESSIONAL ACTIVITIES

Media Contributions and Citations

SMU Pilot Introduces JC, IP Students to Programming, Today, 22 Jun 2015

https://www.smu.edu.sg/sites/default/files/smu/news_room/smu_in_the_news/2015/june/june22/TODAY_20150622_1.pdf

SMU to Broaden Learning for Freshmen, AsiaOne, 26 May 2014

<https://www.asiaone.com/singapore/smu-broaden-learning-freshmen>

UNIVERSITY SERVICE

Singapore Management University

Judge, Project HeartCode (Student Community Service Project), Dec 2024

Judge, Ellipsis (SCIS Student Club) Tech Series Hackathon, Aug 2024

Committee Member, Adult Learner Working Group, Aug 2023 - Present

Sponsor, Google Career Certifications, Dec 2022 - Present

Faculty Representative, Singapore Computer Society Student Chapter, Jan 2012 - Present

EXTERNAL SERVICE – PROFESSIONAL

Reviewer Conference Paper, SIGCSE TS 2025 (56th ACM Technical Symposium on Computer Science Education), ACM, 2024

Judge, TikTok Hackathon Challenge, ByteDance, 2023

Reviewer Conference Paper, SIGCSE TS 2024 (55th ACM Technical Symposium on Computer Science Education), ACM, 2023

Reviewer Conference Paper, SIGCSE TS 2022 (53rd ACM Technical Symposium on Computer Science Education), ACM, 2021

Reviewer Conference Paper, SIGCSE TS 2021 (52nd ACM Technical Symposium on Computer Science Education), ACM, 2020

Member, Syllabus Development Committee for “A” -level Computing Syllabus (H2 Computing), Ministry of Education, 2015

Member, Editorial Board, Journal of Information Systems Education (JISE), 2014 - 2022

Reviewer Ad Hoc Reviewer, Guide to the Software Engineering Body of Knowledge v3.0 (SWEBOK 3), IEEE Computer Society, 2014

EXTERNAL SERVICE – PUBLIC SECTOR AND COMMUNITY SERVICE

Volunteer, Singapore Police Force, 2003 - Present