

Using AI for Code with Trust



# Singapore Manifesto on AI-Driven Innovations for Code

January 19, 2026

2026

# Introduction

Generative AI is rapidly changing the landscape of software engineering. However, a key challenge remains - how can we incorporate AI as a reliable part of next-generation development? At the Singapore Manifesto, invitees from all over the world, working in academia, industry, and government, come together in Singapore to discuss the opportunities and risks of this technological change. Join us to map the future of trustworthy software development with AI.

## Meet the Organizers



**Abhik Roychoudhury**

*Provost's Chair Professor, NUS  
Senior Advisor, Sonar*

Abhik Roychoudhury is Provost's Chair Professor of Computer Science at the National University of Singapore (NUS), where he leads a research team on Trustworthy and Secure Software (TSS). He is Senior Advisor at Sonar, subsequent to the acquisition of his spinoff AutoCodeRover on AI agents for coding. He received his PhD in Computer Science from the Stony Brook University in 2000, and has been a faculty member at NUS School of Computing since 2001. Abhik's group at NUS has focused on symbolic program analysis, along with applications of program analysis to areas such as computer security, agentic AI or cyber-physical systems. These works have been honored with various awards including an International Conference on Software Engineering (ICSE) Most Influential Paper Award (Test-of-time award) for (symbolic analysis based) program repair, IEEE New Directions Award 2022 (jointly with Cristian Cadar) for contributions to symbolic execution.

Abhik was the inaugural recipient of the NUS Outstanding Graduate Mentor Award 2024. Doctoral students graduated from his research team have taken up faculty positions in many top academic institutions. He has served the software engineering research community in various capacities including as chair of the major conferences of the field, ICSE (in 2024) and FSE (in 2022). Currently, he serves as chair of the FSE steering committee. He is a member of the editorial board of Communications of the ACM. He is the current Editor-in-Chief of the ACM Transactions on Software Engineering and Methodology (TOSEM). Abhik is a Fellow of the ACM, recognized for contributions to automated program repair and fuzz testing.



**Baishakhi Ray**

*Associate Professor, Columbia University*

Baishakhi Ray is an Associate Professor in the Department of Computer Science at Columbia University in New York, USA. Her research lies at the intersection of Artificial Intelligence and Software Engineering, with a particular focus on developing intelligent, trustworthy tools for improving software reliability, security, and developer productivity.

Dr. Ray's work has been recognized with several honors, including the IEEE TCSE Rising Star Award, NSF CAREER Award, IBM, and VMWare Faculty Awards. Her publications have received multiple Distinguished Paper Awards at top venues, the ICSME Test of Time Award, and have been featured in CACM Research Highlights, reflecting the broad impact of her research on both the academic and industrial communities. She also serves as an Amazon Scholar, collaborating with the Amazon Q Agentic AI team to build intelligent developer agents grounded in real-world software engineering practice.

All information about the event, an updated list of attendees, and the agenda can be found on our website, which can be accessed using the QR code below or the following URL  
<https://spartan-nus.github.io/ai4code-roundtable>





# Confirmed Attendees



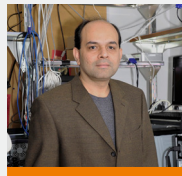
**Ahmed Hassan**

Professor  
Queen's University Canada



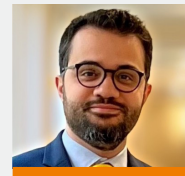
**Anup Kumar**

Distinguished Engineer & Head  
Client Engineering  
IBM Asia Pacific



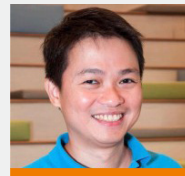
**Atif Memon**

Distinguished Engineer  
Apple



**Behrooz Omidvar-Tehrani**

Principal Scientist  
AWS



**Cho Chia Yuan**

Deputy Director  
Ministry of Defence (Singapore)



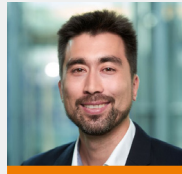
**Corina Pasareanu**

Principal Scientist, Technical  
Professional Leader  
Carnegie Mellon University & NASA  
Ames Research Center



**Cristian Cadar**

Professor  
Imperial College London



**Daniel Dahlmeier**

Chief Data Scientist  
SAP Artificial Intelligence



**David Lo**

OUB Chair Professor  
Singapore Management University



**Gang Lee**

CEO, Co-Founder  
ELGO AI



**Haifeng Ruan**

PhD Student, Co-Founder  
AutoCodeRover  
National University of Singapore



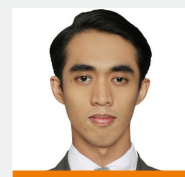
**Harry Wang**

Chief Growth Officer  
Sonar



**Hsiao Ming Chia**

Director (Core Engineering  
Products)  
GovTech Singapore



**Imam Nur Bani Yusuf**

Postdoctoral Researcher  
National University of Singapore



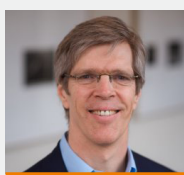
**Jeffrey Salleh**

Director, Cloud Engineering  
Oracle



**Karlina Tjoa**

Lead Software Engineer  
MoHT Singapore



**Martin Rinard**

Professor  
Massachusetts Institute of  
Technology



**Neha Rungta**

Applied Science Director  
AWS



**Raveendra Kumar Medicherla**

Principal Scientist  
Tata Consultancy Services



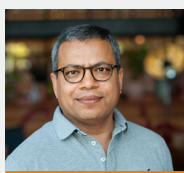
**Ridwan Shariffdeen**

Principal Research Scientist  
Sonar  
CEO & Co-founder  
AutoCodeRover



**Robert Morris**

Chief Technology Strategist  
MoHT Singapore



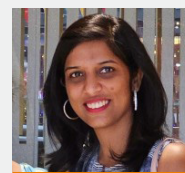
**Satish Chandra**

Principal Engineer  
ML for Developer Productivity,  
Google



**Shaowei Ying**

Chief Scientist  
NCS



**Shweta Garg**

Senior Applied Scientist  
AWS AI Labs



**Sian Wee Tan**

Senior Vice President  
(Innovation and Enterprise)  
National University of Singapore



**Sungmin Kang**

Postdoctoral Researcher  
National University of Singapore



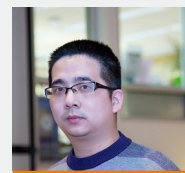
**Varun Srivastava**

Engineering Leader - Search and AI  
Atlassian



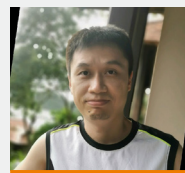
**Volkan Sevidik**

Chief Technology Officer (CTO)  
Starhub



**Xin Xia**

Qiushi Distinguished Professor  
Zhejiang University



**Yanyan Hu**

Deputy Director - Architecture and  
Development  
MoHT Singapore



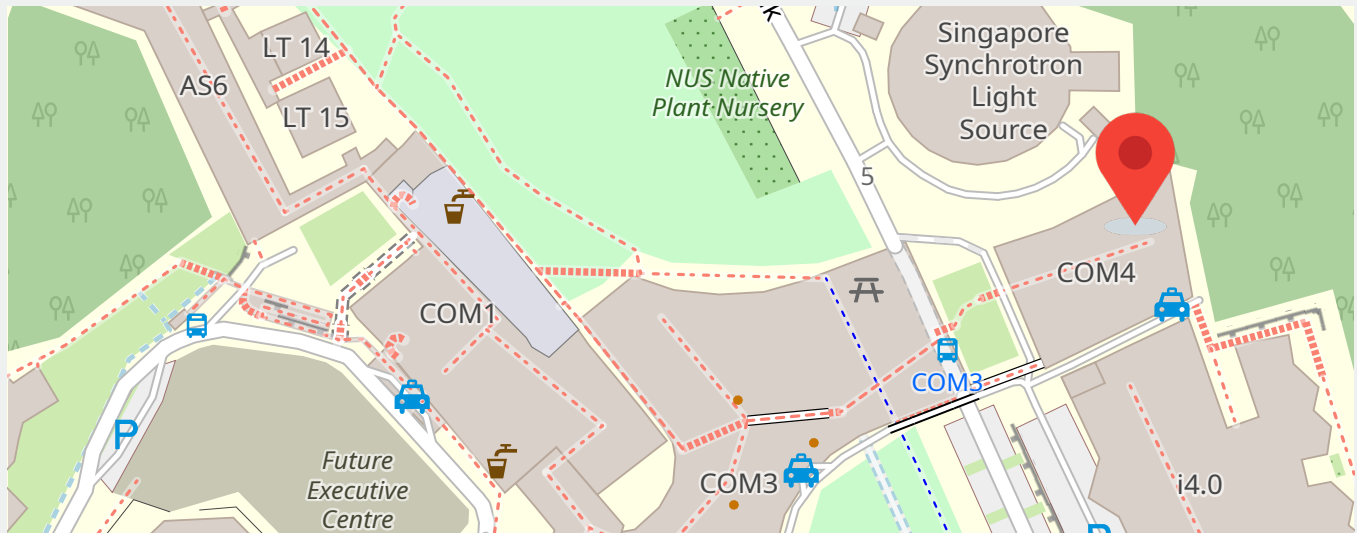
**Yuntong Zhang**

PhD Student, Co-Founder  
AutoCodeRover  
National University of Singapore

# Venue

The event will be held on **January 19, 2026**, at the **Information Systems and Analytics Teaching Lab 2 (COM4-02-01)**

<https://maps.app.goo.gl/rQHKURhwnh9NNiix5>



# Tentative Agenda

Time	Title
9:00 AM	Registration
9:30 AM	Introduction of roundtable topics by organizers
10:00 AM	Talk on Trust by Neha Rungta
10:30 AM	Talk on AI for Software Engineering by Satish Chandra
11:00 AM	Talks on AI for Code by Harry Wang, Hsiao Ming Chia, Yanyan Hu
12:00 PM	<i>Lunch Break</i>
1:30 PM	Roundtable discussions 1. What will be the role of academia in AI for code? 2. How to engender trust in coding agents? 3. What is the future of software engineering with agents regarding design, coding, and validation? 4. What are the challenges in industry in deployment of AI for code?
3:00 PM	<i>Tea Break</i>
3:30 PM	Summary of roundtable discussions by participants
4:30 PM	Wrap-up and discussion on follow-up by organisers for the next meeting in New York (May 2026)

For further inquiries or assistance, kindly contact **Dr. Sungmin KANG** at the following email address: [sungmin@nus.edu.sg](mailto:sungmin@nus.edu.sg)