



RoboCup Singapore Humanoid Robot Workshop

Maxwell Auditorium, Science Centre Singapore

<https://2025.robocupsg.org/workshop/>

4th April 2025

Programme

08:30 – 09:00	Registration
09:00 – 09:10	Opening Address Professor Zhou Changjiu, President of RoboCup Asia-Pacific (RCAP); Vice President, RoboCup Federation
09:10 – 09:40	Keynote I: SG Robotics – Catalyzing Capabilities, Capturing Value Professor Quek Tong Boon, Chief Executive, National Robotics Programme (NRP), Singapore
09:40 – 10:10	Keynote II: Lessons from Standard Platform League for Humanoid Robotics Professor Claude Sammut, University of New South Wales, Australia Former President of RoboCup Federation
10:10 – 10:30	Launch of New Humanoid Robot Booster Robotics
10:30 – 11:00	Tea Break & Humanoid Robot Exhibition
11:00 – 11:30	Keynote III: Legged Embodied-intelligence of Humanoid Robots Professor Zhao Mingguo, Tsinghua University, China; Chief Scientist of Booster Robotics
11:30 – 12:00	Industry Talk I: Booster Robotics: Advancing RoboCup's Vision and Our Path Forward Mr Cheng Hao, Founder & CEO, Booster Robotics
12:00 – 12:30	Demonstration of Humanoid Soccer Robot 3 vs 3 • Team Tsinghua Hephaestus, Tsinghua University • Team CAU Mountain & Sea, China Agricultural University
12:30 – 14:00	Buffet Lunch + Network Session
14:00 – 14:30	Invited Talk I: Robotics and AI for Transforming Economy: Opportunities and Challenges in UAE Professor Jorge Dias, Centre for Autonomous Robotic Systems, Khalifa University, UAE
14:30 – 15:00	Invited Talk II: From Algorithmic and RL-based to LLM-powered Agents Professor An Bo, Director, AI –for-X, Nanyang Technological University (NTU)
15:00 – 15:20	Industry Talk II: The New Possibilities of Robot Soccer with High-Performance Small Size Humanoids Robot Mr Wang Xinhui, CTO, High Torque Robotics
15:20 – 15:30	Demonstration of Humanoid Robots Pi & Hi by High Torque Robotics
15:30 – 16:00	Tea Break & Humanoid Robot Exhibition
16:00 – 16:15	RoboCup Talk I: Humanoid Entry Level Soccer Initiative (HELSI) Professor Azer Babaev, Member of Technical Committee, RoboCup Humanoid League; Khalifa University, UAE
16:15 -16:30	RoboCup Talk II: XMAN-R1: Pioneering Embodied Intelligence in Service Robotics Dr Liu Fei, Chair of Organizing Committee, RoboCup Middle Size League; Director of University Cooperation, KEENON Robotics
16:30 – 17:00	Hands-on Session: Humanoid Robot Design, Programming and Applications Booster Robotics
17:00	End of Workshop



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Speakers



Professor Quek Tong Boon

Chief Executive, National Robotics Programme (NRP), Singapore



Professor Claude Sammut

UNSW, Australia;
Former President of RoboCup Federation



Professor Zhao Mingguo

Tsinghua University, China;
Chief Scientist of Booster Robotics



Professor Zhou Changjiu

President of RoboCup Asia-Pacific (RCAP);
Vice President, RoboCup Federation



Professor Jorge Dias

Centre for Autonomous Robotic Systems,
Khalifa University, UAE



Professor An Bo

Director, AI –for-X,
Nanyang Technological University (NTU)



Cheng Hao

Founder & CEO,
Booster Robotics



Dr Liu Fei

OC Chair, RoboCup Middle Size League;
Director of University Cooperation, KEENON Robotics



Professor Azer Babaev

Member of Technical Committee, RoboCup Humanoid League;
Khalifa University, UAE



Wang Xinhui

CTO, High Torque Robotics