

TDSI NEWSLETTER

A quarterly newsletter of TDSI featuring the institute news, event updates and any new and upcoming offerings for the defence community.

TDSI SPOTLIGHT



Professor Lui Pao Chuen

Founding Chairman, TDSI Management Board
 Temasek Defence Professor
 Temasek Defence Systems Institute (TDSI)
 National University of Singapore (NUS)

Widely known for his expertise and knowledge in defence technology and large-scale systems engineering, Professor Lui was the founding chairman and appointed inaugural Temasek Defence Professor at TDSI, NUS. His leadership and vision to nurture the next generation of defence scientists and systems engineers led to the establishment of TDSI with a strategic partnership between NUS and the US Naval Postgraduate School in 2001.

Congratulations from TDSI to Professor Lui!

TDSI's heartiest congratulations to Professor Lui for his conferment of the Distinguished Service Order in the 2025 Singapore National Day Awards! Celebrating with Professor Lui on receiving this significant national day honour, TDSI caught up with Professor Lui to hear his thoughts on this milestone and his vision for TDSI.

TDSI: "Congratulations on receiving the prestigious Distinguished Service Order in the 2025 Singapore National Day Awards. What does this recognition mean to you personally and professionally?"

Prof Lui: "Ministry of Finance ("MOF") had nominated me for the award for my contribution as Chairman, MOF Development Projects Advisory Panel, from its establishment in 2010. Subsequently, I changed my title to Temasek Defence Professor; Chairman of Singapore Nuclear Research & Safety Institute; Former Chairman, MOF Development Projects Advisory Panel. This change showed the importance I placed on the development of officers for capability development. I quote from my citation "As Temasek Defence Professor, he inspired future generations to embrace the ethos of daring to dream, decide, do and deliver." I am greatly honoured to receive the Distinguished Service Order. My contributions to our nation were made possible by the trust my superiors and the integration of my colleagues in project teams."

TDSI: "What message would you like to share with TDSI's defence strategic partners as they continue to advance capabilities and innovation in systems engineering and their respective fields?"

Prof Lui: "The creation of knowledge and accumulation of knowledge and the sharing of experience and knowledge across organisations of strategic partners had achieved synergies and will continue to be a strategic advantage of our nation."

TDSI: "Looking ahead, what do you see as the key priorities for TDSI in contributing to national defence and security?"

Prof Lui: "Future wars will be integrated in cyber space and physical space. TDSI has to expand its coverage of military systems covering land, air, sea, space and cyberspace. The second priority of TDSI will be to improve the intelligence of students and instructors with an understanding of how a person learns. Brain Based Learning can help. With superior Intelligence supplemented by Artificial Intelligence, (HI+AI) will be our competitive advantage."

Advancing Together in a Year of Learning

As the year draws to a close, we reflect on TDSI short courses and technology seminars that have shared knowledge, strengthened skills, inspired innovation, and deepened expertise of defence professionals. Every learning moment has been a step towards stronger capabilities and a more resilient defence community. Look out for TDSI's courses and seminars for 2026!



Short Courses in 2025

TDSI short courses this year in emerging technology domains have equipped our defence professionals with the tools, skillsets, knowledge, and confidence to strengthen capabilities and drive innovation in the evolving defence environment. These deep technology and cross-discipline courses, such as "AI-Enhanced Cloud Technologies", "Swarm Intelligence & AI-Driven Unmanned Aerial Systems" as well as "Quantum Technologies" are essential learning to thrive in the digital transformation landscape today.



Technology Seminars in 2025

TDSI technology seminars provides a platform that brought together thought leaders, innovators and practitioners to share insights and fresh perspectives, and foster meaningful exchanges on emerging trends and cutting-edge developments in the different technology domains. Seminar attendees appreciated the knowledge and information shared during the seminars that provided perspectives and clarity to better learn and understand the different aspects of each technology.

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Connect with TDSI to explore programmes and courses built for defence professionals.

Email us at tdsiwebsite@nus.edu.sg for enquiries.