



SENSOR-CFD FUSION FOR PHYSICAL FIELDS RECONSTRUCTION

Synopsis

In this webinar, we explore the issue of dense and sparse information fusion with indoor physical fields (e.g. temperature, humidity, air velocity, etc.) as the information of interest. Physical fields are very useful information in many energy-efficient system design problems.

Computational fluid dynamics (CFD) simulation is essentially the de facto tool to estimate the dense indoor physical fields but has its limitations. Therefore, a new method to rapidly obtain accurate reconstruction of indoor physical fields is of practical interest. In this session, we shall discuss how sparse sensor observations can be effectively fused with CFD physical fields.

Date: 13 April 2022, Wednesday

Time: 3pm - 5pm

For enquiries, please contact
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Fees:

IES Members - \$20*

Non Members - \$40*

**Fees indicated above excludes 7% GST*

CPD Program:

2 PDUs for PEs and CEngs
(Approved & Confirmed)



Dr Soh Yeng Chai

*Professor, School of Electrical and
Electronic Engineering
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About the Speaker

Yeng Chai SOH received the B.Eng. (Hons. I) degree in electrical and electronic engineering from the University of Canterbury, New Zealand, and the Ph.D. degree in electrical engineering from the University of Newcastle, Australia.

He joined the Nanyang Technological University, Singapore, after his PhD study and is currently a professor in the School of Electrical and Electronic Engineering. Dr Soh has served as the Head of the Control and Instrumentation Division, the Associate Dean (Research and Graduate Studies) and the Associate Dean (Research) at the College of Engineering. He was also the founding director of NTU's High Performance Computing Centre. Dr Soh has served as panel members of several national grants and scholarships evaluation and awards committees.

Dr Soh's research interests are primarily in robust control, robust estimation and filtering, decentralized optimization and control, and energy efficient systems. He has published more than 300 refereed journal papers in these areas. His most recent research activities are in the areas of sensor networks, sensor fusion, distributed control and optimization, and multi-agent systems, and their applications energy-efficient systems.

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