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TECHNICAL LECTURE SERIES (LECTURE-15)

FIBER BRAGG GRATING SENSORS: FROM SECURITY TO STRUCTURAL HEALTH MONITORING

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ONLINE MODE



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LECTURE



Dr. Hao is Senior Principal Scientist at Institute for Infocomm Research (I²R) Singapore. Her research interests include fiber optic sensors and their applications, sensor packaging, biophotonics, structural health monitoring, predictive maintenance, and system integration. She has co-authored two book chapters, published over 100 research papers, and delivered more than 20 invited talks at international journals, conferences, and industry workshops. As a principal investigator, she has led multi-million-dollar projects funded by AIRBUS and Sembcorp Industries. Dr. Hao holds 22 patents and is the key inventor of the award-winning, patent-granted technology—the FBG-based Perimeter Intrusion Detection System (PIDS). She is a senior Member of IEEE and a recipient of the ASEAN Outstanding Engineering Achievement Award and the IES Prestigious Engineering Achievement Award.