



Talk information

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Title of the talk: Innovating the Future with IEEE 2668: Shaping the IoT Landscape

Abstract of the talk:

In the next decade, the Internet-of-Things (IoT) will experience an exponential growth, with its applications extending across various sectors such as facility and energy management, healthcare, transportation, logistics, aviation, finance, and manufacturing. This burgeoning IoT landscape, however, brings forth significant challenges in cybersecurity, data privacy, and device harmonization. Non-harmonization, for instance, can impair the quality-of-service in IoT networks. To address these concerns, the international standard IEEE 2668, known as the Internet-of-Things Maturity Index (IDex), was established in December 2022. IDex evaluates the maturity of IoT solutions and technologies, aiding consumers, companies, and policymakers in the efficient selection and development of IoT solutions. The presentation will explore various applications of this standard.

Biography of the speaker:

Kim Fung, TSANG is a Fellow of IEEE (2024) and a Fellow of HKIE. He is a professor at NanFeng College, Guangzhou, PRC and is renowned for his expertise in AIoT and smart technology applications. His accolades include the IoT Heroes Award (2016) and the IEEE PSES Outstanding Achievement Award (2021). As the architect of the IEEE Standard 2668 Maturity Index of Internet-of-Things, TSANG's contributions to the field are significant. He is actively involved in setting IoT standards and practices, serving as a consultant and an assessor.

His current roles encompass Editor-in-Chief of the IEEE Transactions on Consumer Electronics, the Chairman of the Standards Committee, IEEE Consumer Electronics Society; an Associate Editor of the IEEE Transactions on Industrial informatics; an Associate Editor of the IEEE Transactions on Industrial Electronics; an Associate Editor of the IEEE Industrial Electronics Magazine; as well as the Editor (Electrical) of HKIE Transactions.