Vithaya & Vorachet Short Bio - Topic - Abstract for Singapore Chapter Conference

Digital Engineering in Thailand

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Abstract:

This talk embarks on Thailand's exciting journey towards a digital engineering future. It explores how a systems engineering approach, empowered by Model-Based Systems Engineering (MBSE), can unlock its potential for industry transformation. While digital engineering adoption is still in its early stages, we'll navigate the challenges and opportunities of implementing this approach.

The discussion will explore the ongoing efforts of INCOSE Thailand in facilitating resources for digital engineering implementation. This includes establishing best practices and ensuring computing infrastructure aligns with key Systems Engineering (SE) areas that digital engineering will encounter when dealing with complex systems. We'll examine potential MBSE projects in various Thai industries, analyzing the challenges encountered and potential benefits gleaned from these pioneering efforts. This exploration will identify key themes and considerations for fostering successful SoS development in Thailand's digital transformation journey.


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(i) Asst. Prof. Dr. Vithaya Suharitdamrong (Engineering Institute of Thailand) and (ii) Vorachet Jaroensawas (NORASI TEAM)

Speaker Bio:

Vithaya and Vorachet are two key members of INCOSE Thailand who have been instrumental in facilitating the development of the SE community in Thailand. They have directly led projects that apply systems engineering for years within the Thai context. Their contributions in Thailand are wide-ranging. Since 2016, they have raised awareness of systems engineering and promoted its long-term adoption. They played a crucial role in establishing a small SE community, which eventually evolved into the current emerging INCOSE Chapter. Additionally, they spearheaded the organization of the first annual systems engineering conference in Thailand in 2024. Furthermore, Vithaya's contributions at the Engineering Institute of Thailand in promoting systems engineering-related standards to national regulatory bodies and professional associations have been invaluable. His work on System of Systems for Smart Cities and Comprehensive Studies has provided guidance to a wide range of communities in Thailand. This, in turn, has allowed Vorachet and other players in Thailand's SE communities to start SE/MBSE/DE businesses, gradually responding to the new demand for systems engineering expertise in Thailand. As a result, Thailand has gained recognition in recent years for having a growing number of academics and professionals who are applying systems engineering principles to real-world projects.