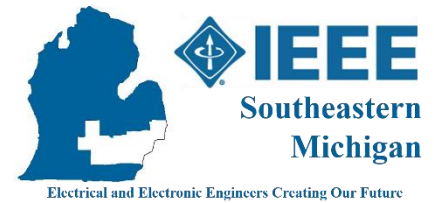


IEEE Southeastern Michigan Presents: Dr Macam Dattathreya, PhD

Verification of an architecture in a system model using domain specific operational scenarios and contexts



A proposed approach for verifying a Modular Open Systems Approach (MOSA)-enabled system architecture in Systems Modeling Language (SysML) based system models of military ground vehicle domains. Using this approach, Model Based Systems Engineering (MBSE) practitioners can verify that a given MOSA-enabled architecture in the system model is compliant to pre-defined MOSA-adopted reference architecture models. The approach utilizes military ground vehicle domain-specific operational scenarios and their associated domain context-specific architecture verification rules, architecture verification metrics and compliance-scope. MBSE professionals can implement the proposed approach using automated or semi-automated solutions

Speaker Bio:

Dr. Macam Dattathreya is a Senior Scientific Technical Manager within the US Army with a Ph.D. in Electrical and Computer Engineering. He has over 30 years of combined private and public industry experience in various engineering disciplines. He is also an adjunct faculty at Wayne State University, Detroit where he teaches both graduate and undergraduate software and computer engineering related courses. Dr. Dattathreya also mentors several aspiring engineers in the field of software, model-based systems engineering, requirements engineering, and open-standard system architecture. He is a Senior Member of the Institute of Electrical and Electronics Engineers (IEEE), holds a Level III certification in systems engineering, is an IBM certified Software Systems Architect, and also a Certified Information System Security (CISSP) Professional.

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Quick Summary

- **When:**

Date: August 7th, 2025

Time: 05:30 – 7:30 PM
(EST/EDT)

- **Where:**

Online via Webex

Audience: OPEN to ALL

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