**Proposal for Workshop/Tutorial at IEEE CASE 2021**

**Goal:**

* [Please provide a brief 2-3 paragraph summary explaining the goal of the workshop/tutorial and relate your proposal to the topics of CASE 2021.] Note: The topics include but are not limited to: Adaptive automation systems; Agent-based collaborative automation systems; Automated fault detection, diagnostics, and prognostics; Automation in life science; Autonomous systems; Cloud-based automation; Cognitive Automation; Cyber physical production systems and industry 4.0; Cybersecurity in automation systems; Data science and data-driven automation; Human-in-the-loop, human-machine interactions, human-robot / robot-robot collaboration; Machine learning and artificial intelligence; Micro- and nano-scale automation technologies and applications; Modeling, simulation, and optimization of automation systems; Networked control systems; Power and energy system automation; Sensor-fusion for intelligent automation systems; Smart factories, smart logistics and supply chains; Smart products with embedded intelligence; Smart automation in construction and manufacturing; Smart home/building automation; Smart and connected healthcare automation; Standardization in smart manufacturing/home/building/healthcare etc.; Sustainability and green automation

**Title:** [Insert your title here]

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**Time:** August 23, 2021

**Abstract:** ……

**Descriptions:** ……

**Format:** Half day/one day; presentation/panel/group discussion, etc.