Computational Modeling Human Performance and Mental Workload and its Applications in Systems Design

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This research seminar will on computational human performance modeling and mental workload with its applications in systems engineering. Human performance modeling is a growing and challenging area in human factors and cognitive systems engineering. It builds computational models based on the fundamental mechanisms of human cognition and human-system interaction, employs both mathematical and discrete event simulation methods in industrial engineering, and predicts human performance and workload in real-world systems. It can be used to design, improve, and evaluate systems with human in the loop.

Current and future research topics will also be introduced.

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