

## Special Issue

# Cognitive Systems Engineering: Improving Human Performance

### Message from the Guest Editor

Cognitive systems engineering (CSE) is primarily concerned with the analysis, design, and evaluation of complex socio-technical systems that should be monitored and supervised in real time. In complex socio-technical systems, human operators must perform different kinds of cognitive activities, such as sensemaking, decision-making, problem solving, and planning, in order to manage said systems productively and safely. In this regard, it can be said that CSE aims to support human cognitive performance in a range of contexts by integrating human cognitive systems and artificial cognitive systems, including artificial intelligence and advanced information technologies. For this purpose, CSE draws on concepts, principles, frameworks, models, and processes from cognition-related disciplines such as cognitive science, human factors, information science, human-computer interaction, cybernetics, etc. In principle, CSE can be applied to any work domain in which human workers need to interact with IT-based systems and in which human cognitive activities are important in terms of productivity, safety, and security, among other.

### Guest Editor

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### Deadline for manuscript submissions

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## Applied Sciences

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### Editor-in-Chief

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