

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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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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