

Special Issue

AI in Complex Engineering Systems

Message from the Guest Editor

The increasing demand for the accurate prediction of performance and maintenance metrics in complex engineering systems has led to a rapid expansion in the application of artificial intelligence (AI). AI methodologies are now routinely employed across a wide range of tasks, including the regression modeling of critical values, the detection of events and anomalies in both numerical and image-based datasets, and the optimization of operational processes. In many cases, these AI-driven approaches have demonstrated superior performance and adaptability when compared to traditional analytical or rule-based methods. By presenting innovative research across diverse engineering domains, this Special Issue of *Computers* aims to highlight the transformative potential of AI in the design, monitoring, and optimization of modern engineering systems.

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