

Special Issue

Digital and Data-Driven Systems Engineering: Bridging Theory and Practice

Message from the Guest Editor

The proliferation of digital and data-driven technologies is fundamentally transforming the field of Systems Engineering (SE). As organizations increasingly adopt digital twins, big data analytics, artificial intelligence, and cyber-physical systems, there is an urgent need for innovative approaches that seamlessly integrate these advancements into SE practices. Systems engineers must acquire expertise in data management and demonstrate advanced digital proficiency to effectively navigate emerging technologies and workflows. Additionally, they must develop the capability to adapt to the increasing complexity of modern engineering challenges, ensuring effective integration across the lifecycle. This Special Issue aims to explore the intersection of digital and data engineering with systems engineering, emphasizing the transition from theoretical frameworks to practical applications and the digital transformation of the engineering enterprise. It provides a platform for researchers, practitioners, and policymakers to share insights into how digital and data-driven innovations are reshaping the role of systems engineers, as well as SE processes, tools, and outcomes.

Guest Editor

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Deadline for manuscript submissions

30 September 2025



Systems

an Open Access Journal
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Impact Factor 3.1
CiteScore 4.1



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Message from the Editor-in-Chief

Systems is a leading venue for the quick and global dissemination of results of cutting-edge research in various areas of systems science and systems-related fields. An increasing number of researchers are realizing the enormous potential of systems thinking in managing the many unprecedented and complex issues in all areas of need. The *Systems* journal provides a home of exceptional quality for the manuscripts of these researchers who often find it difficult to publish their work in conventional discipline focused journals.

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