IEEE SYSTEMS JOURNAL

CALL FOR PAPERS

SCOPE: This journal is created to provide a systems-level focused forum for application-oriented manuscripts that address complex systems and system-of-systems of national and global significance. It is intended to encourage and facilitate cooperation and interaction among IEEE societies, and other professional societies, with systems-level and systems engineering interest.

JOURNAL NEED: The journal is intended to stimulate awareness, appreciation and utilization of systems thinking and the supporting systems engineering disciplines, especially for complex systems, systems-of-systems, complex cyber-physical systems, and complex smart systems, across many domains and application areas. Attention will be directed to theory, technology, design methodology, management, applications, successful lessons, impact in the real life, and social implications. In particular, but not only, themes that will be addressed include architectures, complexity, dynamics, integration, interoperability, adaptability, completeness, effectiveness, modeling, analysis, simulation, development tools and environments, engineering, science, mission assurance, regulatory compliance, robustness, reliability, availability, safety, maintainability, quality, risk management, interaction, usability, human factors, privacy, deployment, management, operations, communications, security, standards, applications, ethics, and education.

Typical domains encompass, but not limited to: autonomous vehicles and systems, disaster response, energy, environmental monitoring and control, exploratory exploration (space, terrestrial, underwater), global Earth observation and prediction, Earth science, biological systems, biotechnological systems, infrastructure monitoring and control, manufacturing systems, automation, cyber-physical systems, human health and life science, medical systems, transportation systems, logistics, service systems, decision support systems, management of large-scale systems, national defense and security, **information and computer systems**, **cyberspace**, **internet**, **distributed networks**, information systems security, privacy, educational systems, social and political systems, banking and trading systems, and socio-economic systems.

Interdisciplinarity is increasingly interesting due to its relevance in the modern and future complex systems, including aspects in engineering areas as well as in biology, chemistry, physics, material sciences, mathematics, life science, physiology, psychology, sociology, law, ethics, management, economy, finance, and many others.

This publication fills therefore a void un-addressed by most other journals, both within IEEE and outside, aiming to serve the broad community interested in this area, encompassing researchers, professionals, industry, government employees, and students worldwide.

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