Systems Thinking?
Think of the IEEE Systems Journal

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About the Systems Journal

The IEEE Systems Journal (ISJ) publishes peer-reviewed technical papers with many shared aspects of systems, systems engineering and systems-of-systems across many domains and applications including:

- » autonomous vehicles and systems
- » disaster response
- » energy
- » environmental monitoring and control
- » exploratory exploration (space, terrestrial, underwater)
- » global earth observation & prediction
- » human health and life science

- » intermodal transportation systems
- » logistics
- » national defenses security
- » organizational internal
- » privacy & security
- » socio-economic (including trade & banking systems)

Journal Scope

The ISJ provides a systems-level, focused forum for application-oriented manuscripts that address complex systems and system-of-systems of national and global significance. It intends to encourage and facilitate cooperation and interaction among IEEE Societies with systems-level and systems engineering interest, and to attract non-IEEE contributors and readers from around the globe. Our IEEE Systems Council job is to address issues in new ways that are not solvable in the domains of the existing IEEE or other societies or global organizations. These problems do not fit within traditional hierarchical boundaries. For example, disaster response such as that triggered by hurricanes, tsunamis, or volcanic eruptions is not solvable by pure engineering solutions. We need to think about changing and enlarging the paradigm to include systems issues.

Disciplines, Processes and Skills

- » automation & control
- » management of large-scale systems
- » management of large-scale systems
- » manufacturing
- » mission assurance
- » modeling and simulation
- » nanotechnology in system-of-systems
- » self-con guration and adaptation
- » product life cycle

- » regulatory compliance
- » reliability & availability
- » safety
- » maintainability
- » quality
- » risk management
- » scholarship of systems engineering
- » systems engineering processes
- » systems-of-systems

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