2016 IEEE International Symposium on
SYSTEMS ENGINEERING
ISSE · 2016

George Hotel | Edinburgh Scotland
October 3-5, 2016

http://ieeeisse.org

CALL FOR PAPERS

SYMPOSIUM OBJECTIVE

This symposium seeks to create an interactive forum for the advancement of the practice of systems engineering across the multiple disciplines and specialty areas associated with the engineering of complex systems. The symposium will provide a venue for systems engineering practitioners, managers, researchers, and educators to exchange innovative concepts, ideas, applications and lessons learned addressing:

Applications-oriented topics on large-scale systems and systems-of-systems in topics noted below.

Systems engineering, education, standards, processes and methodologies for the system-of systems environment

Research opportunities and results relating to systems-of-systems

IMPORTANT DATES

Initial Sumission Deadline .... May 15, 2016

Acceptance Notification .... July 1, 2016

Final Paper Deadline .... August 24, 2016

COMMITTEE

General Chair .... Bob Rassa, *Raytheon, USA*

Technical Program Chair .... Paolo Carbone, *University of Perugia, Italy*

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IEEE SYSTEMS COUNCIL

TOPICS

• System Architecture and Architectural Frameworks
• Engineering Systems-of-Systems
• Risk Management of Complex Systems Environment
• Systems Reliability
• Engineering Processes for Complex Systems - Includes Process Improvement and Quality Management
• Product Lifecycle Management Processes and Tools for System-of-Systems - Includes Configuration Management (CM), Requirements management, Data Management Strategy (CMS) and Integrated Logistics Support
• Service Oriented Architectures
• Cyber Security Issues and Approaches for Complex Systems
• Enterprise Systems Engineering
• Agile Development Methods of System-of-Systems
• Modeling and Simulation
• Model-Based Systems Engineering
• Systems Verification and Validation
• Systems Engineering Competency, Education and Training
• Program/Project Management for Complex Systems
• "Systems thinking" Benefits
• Technology Transfer Between Academia and Industry
• Societal and Political Impacts of Systems and Systems Design
• Diagnostics, Prognostics, and Enterprise Health Management
• Research in Systems Engineering
• Software Systems Engineering
• System-level design
• HW/SW co-design
• Virtual prototyping
• Systems considerations about:
  o Autonomous Systems
  o Energy Management and Sustainability, including Renewable Energy
  o Space and Communications Systems
  o Medical Systems
  o Gaming and Entertainment Systems
  o Transportation Systems
  o Sensors Integration and Application for a Net-centric Environment
  o Disaster response
  o Global Earth Observation
  o Large-Scale Systems Integration (in any application area)

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