



Systems of Systems Working Group

Webinar Series on Systems of Systems

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Friday, 25 September 2015

11:00am – 12:00pm EDT

Architecture for Multi-criticality Agile Dependable Evolutionary Open System-of-Systems (AMADEOS)

The AMADEOS project goal is to bring time awareness and evolution into the design of Cyber Physical System-of-Systems (CPSoS), to establish a sound conceptual model, a generic architectural framework and a design methodology, supported by some prototype tools, for the modeling, development and evolution of time-sensitive CPSoS with possible emergent behaviors. This seminar will discuss some basic challenges taken by the Project and some advances in three directions. i) Time Management: the design and prototyping of a resilient master clock to provide a sound global time base to the CPSoS. ii) Management of the Physical interactions of the CPSoS: definitions of physical interfaces and interaction of stigmergic channels with usual cyber message flows. iii) AMADEOS conceptual model of CPSoS with associated SysML profile supporting the design of a CPSoS considering different system's view-points, namely structure, dynamicity, evolution, dependability and security, time, emergence and multi-criticality.

Prof. Andrea Bondavalli, University of Florence

Andrea Bondavalli is a Professor of computer science at the University of Florence, Dipartimento di Matematica e Informatica "U. Dini", Italy. He has a long experience (>15 years) in participating in European funded projects, and he is currently coordinating the ICT-FP7-610535 AMADEOS and the FP7-PEOPLE-2012-IAPP-324334 "CECRIS" projects. Andrea Bondavalli has authored or co-authored more than 160 papers that appeared in International Journals and proceedings of International Conferences. His current research interests include the design of dependable systems, the protection of critical infrastructures and the modelling and assessment of resiliency. Andrea Bondavalli is a member of the IEEE, the IFIP W.G. 10.4 Working Group on "Dependable Computing and Fault-Tolerance".



Schedule of Upcoming Webinars

25 Sep 2015 - ***“Architecture for Multi-criticality Agile Dependable Evolutionary Open System-of-Systems (AMADEOS)”*** – Prof. Andrea Bondavalli, University of Florence

23 Oct 2015 – ***“The State of SoS Engineering Knowledge Sources”*** – Dr. Judith Dahmann, The MITRE Corporation

20 Nov 2015 - TBD

Future topics of interest to the SoS WG may be proposed by contacting the webinar coordinator.

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