ICMCIS 2016

Call for Papers
Workshop on "Tactical domain SOA"
Brussels, Belgium, 24th May 2016
Held in conjunction with
ICMCIS2016 (former MCC)

This workshop is primarily concerned with latest research advances in improving the performance of SOA-based services and applications in Disconnected, Intermittent and Limited (DIL) networks. We welcome papers concerned with all aspects of innovative design, implementation, deployment and evaluation of SOA-based systems in DIL environments, as highlighted below:

- Architecture, design, implementation and evaluation of SOA-based communication systems and services
- Case studies utilizing SOA in various stages of development or use cases
- Analysis, modeling and characterization of DIL networks, and their impact on SOA-based services
- SOA service composition, deployment, discovery and life cycle management
- Adaptive, collaborative, location-aware, mission-critical and other smart applications
- Quality of Service (QoS) and Quality of Experience (QoE)
- Quality of Information (QoI) and Value of Information (VoI)
- Security, mobility, network virtualization, connectivity/routing, energy and medium access control solutions to enable improved SOA
- Cross-layer optimizations for enhanced SOA performance
- Collaboration services (e.g., chat, audio, video)
- Emulation or simulation tools, and test beds for evaluating SOA interoperability
- Building, evaluating and verifying realistic synthetic environments

During the ICMCIS 2016 conference, a workshop on "Tactical domain SOA" will be organized. The workshop is arranged by the NATO STO/IST-118 group on "SOA recommendations for disadvantaged grids in the tactical domain", and is the second International Workshop on Service-Oriented Computing in Disconnected, Intermittent and Limited Networks.

Service-oriented architecture (SOA) has emerged in recent years as a promising approach to facilitating the interoperability of various, generally heterogeneous networking systems. After successful deployment in the Internet and broadband networks, the latest trend is to introduce SOA into Disconnected, Intermittent and Limited (DIL) wireless/mobile networking environments, which are typical for battlefield networks and other resource-constrained or disadvantaged networks. Typical DIL environments are characterized by low bandwidth, variable throughput, unreliable connectivity and energy constraints imposed by the wireless communication that links the nodes. Not only do the limited resources in such networks constrain the potential types of services, but also the need for services is often location specific and mission critical.

Organizing Committee

Dr. Frank T. Johnsen, Norwegian Defence Research Establishment (FFI), Norway	Trude H. Bloebaum, Norwegian Defence Research Establishment (FFI), Norway	Dr. Joanna Sliwa, Military Communication Institute (MCI), Poland

Paper submission

Paper submission:	**18 December 2015**
Notification submission:	**29 February 2016**
Camera-ready copy:	**31 March 2016**

All submitted papers will be evaluated based on their originality, significance, technical soundness and clarity of expression. Selected papers must adequately describe their relationship with existing work, address one or more of the central topics, and preferably be forward-looking and give implications for future research.

The manuscript should be in English, not be longer than 8 pages, and compliant with the general standards of the IEEE. All the submitted papers will be submitted to IEEE for inclusion in IEEE Xplore. Submissions and registration are handled by ICMCIS according to their requirements, which are available on the conference website (www.icmcis2016.eu).