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Contents

v	<i>Authors</i>
vii	<i>Conference Committee</i>
ix	<i>Introduction</i>

SESSION 1 OPEN ARCHITECTURE SYSTEMS I

10651 03	Time critical systems and open architecture (Invited Paper) [10651-3]
10651 04	Layered approach to open architecture development (Invited Paper) [10651-4]
10651 05	Experiences in open architecture research and experimentation (Invited Paper) [10651-5]
10651 06	Open architecture of a counter UAV system (Invited Paper) [10651-6]

SESSION 2 OPEN ARCHITECTURE SYSTEMS II

10651 07	An introduction to model based engineering (Invited Paper) [10651-7]
10651 08	Blue Guardian open adaptable architecture for C4ISR (Rising Researcher Paper) (Invited Paper) [10651-8]

SESSION 3 C4ISR NETWORKS

10651 0C	Named data networking protocols for tactical command and control (Invited Paper) [10651-12]
10651 0D	Multi-agent relative pose estimation: approaches and applications (Invited Paper) [10651-13]
10651 0E	Cyber resilience and integrity self-awareness of mobile autonomous systems (Invited Paper) [10651-15]
10651 0F	High-level data fusion component for drone classification and decision support in counter UAV (Invited Paper) [10651-16]
10651 0G	28 Gbaud PAM4 real time optical Datacom link up to 10 km [10651-17]

SESSION 4	AUTONOMOUS C4ISR SYSTEMS OF THE FUTURE: AUTONOMOUS DECISION-MAKING APPROACHES: JOINT SESSION WITH CONFERENCES 10639 AND 10651

10651 0I	Mobile node networks model for the generation of knowledge (Invited Paper) [10651-19]

SESSION 5	COLLABORATIVE ROBOTIC TEAMS: JOINT SESSION WITH CONFERENCES 10640 AND 10651

10651 0J	Decentralized control methods for self-organizing collaborative robotic teams (Invited Paper) [10651-14]

10651 0L	Swarm of autonomous unmanned aerial vehicles with 3D deconfliction (Invited Paper) [10651-21]

POSTER SESSION

10651 0M	Secure communication using ergodic chaotic parameter modulation [10651-22]

Authors

Numbers in the index correspond to the last two digits of the seven-digit citation identifier (CID) article numbering system used in Proceedings of SPIE. The first five digits reflect the volume number. Base 36 numbering is employed for the last two digits and indicates the order of articles within the volume. Numbers start with 00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 0A, 0B...0Z, followed by 10-1Z, 20-2Z, etc.

Alfiler, Taylor N., 04
Bagby, Patrick T., 03
Bogdanowicz, Zbigniew R., 0L
Brink, Kevin M., 0D
Budenske, John, 0E, 0J
Cafarelli, Sergio, 03
Carvajal-Gómez, Blanca E., 0I
Datta, Shubhashish, 0G
Díaz-Casco, Manuel A., 0I
Evans, Joseph B., 0C
Ewy, Benjamin J., 0C
Finstad, Robert K., 0E
Gangopadhyay, Shubhagat, 0E
Head, Sean P., 04
Joshi, Abhay, 0G
Jungwirth, Patrick, 07
Kovach, Nicholas S., 05
Kunimoto, Mark Y., 04
Kuwertz, Achim, 0F
Leung, Henry, 0M
Li, Boyuan, 0M
Littlejohn, Kenneth, 05
Luu, Joann, 08
Mühlenberg, Dirk, 0F
Müller, Wilmut, 06, 0F
Murray, Lori, 0E, 0J
Nakatsukasa, Luke K., 04
Natarian, Benjamin, 08
Nine, Juliana, 08
Pallmer, D., 06
Paxton, Alexander, 05
Pennington, Steven G., 0C
Pertessis, John, 0G
Rajabian-Schwartz, Vahid, 05
Reese, K. Shawn, 04
Reinert, F., 06
Sander, Jennifer, 0F
Satterthwaite, Charles, 05
Schmidt, Andrew B., 04
Seneviratne, Chatura, 0M
Shaver, Jonathan, 03
Shirey, Russell, 08
Young, Neil R., 04

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- 2 Open Architecture Systems II
Raja Suresh, General Dynamics Mission Systems (United States)
Jason R. Stack, Office of Naval Research (United States)
- 3 C4ISR Networks
Jonathan D. Shaver, Air Force Research Laboratory (United States)
Raja Suresh, General Dynamics Mission Systems (United States)

- 4 Autonomous C4ISR Systems of the Future: Autonomous Decision-Making Approaches: Joint Session with Conferences 10639 and 10651
Wolfgang Fink, The University of Arizona (United States)
Raja Suresh, General Dynamics Mission Systems (United States)
- 5 Collaborative Robotic Teams: Joint Session with Conferences 10640 and 10651
Robert E. Karlson, U.S. Army Tank Automotive Research, Development and Engineering Center (United States)
Raja Suresh, General Dynamics Mission Systems (United States)

Introduction

These are the proceedings of the XXIII Open Architecture/Open Business Model Net-centric Systems and Defense Transformation conference. The papers presented at the conference strongly reflected the inexorable trend towards open architecture/open business model acquisition patterns to provide the government Better Buying Power (BBP). The conference included the following joint sessions:

1. Self-organizing Collaborative Unmanned ISR Teams, held jointly with the Unmanned Systems Technology conference.
2. Autonomous C4ISR Systems of the Future, held jointly with the Micro-and Nanotechnology Sensors, Systems, and Applications conference.

The conference included invited papers by several luminaries from the U.S. Department of Defense.

Looking ahead, we expect net-centric systems to evolve towards Systems of Systems (SoS) based on an Open Architectures (OA) and Open Business Models (OBM) construct. The emphasis on disaggregated SoS comes from the DoD push in the Third Offset. Such OA/OBM systems seek to mimic the successful PC industry and hold the promise to dramatically reduce the acquisition and life cycle costs of military systems and tremendously accelerate the rate of technology refresh in military systems.

It is gratifying to see the high level of audience interest in this conference. Particularly gratifying is the fact that this conference has resulted in the “spin-off” of several new conferences at SPIE Defense & Security. My sincere thanks to the distinguished invited speakers, authors, attendees, and my associates on the program committee for another successful conference.

Raja Suresh