



Nominations for the Gary F. Wheatley Award Best Paper and Best Student Paper



Track 1: C2 Modeling & Simulation



Applications of Dynamic Systems Theory to Effects-Based Operations and Adversarial Modelling (Student)
Paul Bello, Air Force Research Laboratory
Mitch Mailman, Air Force Research Laboratory

Networks of Decision-Making and Communicating Agents: A New Methodology for Design and Evaluation of Organizational Strategies and Heterarchical Structures
Georgiy M. Levchuk, Aptima, Inc.
Feili Yu, University of Connecticut
Yuri Levchuk, Aptima, Inc.
Krishna R. Pattipati, University of Connecticut



Track 1: C2 Modeling & Simulation



Effects-Based Design of Robust Organizations (Student)
Sui Ruan, University of Connecticut
Candra Meirina, University of Connecticut
Haiying Tu, University of Connecticut
Feili Yu, University of Connecticut
Krishna R. Pattipati, University of Connecticut

Modeling Team Performance in the Air Defense Warfare Domain

Joseph DiVita, Space and Naval Warfare Systems Center Glenn Osga, Space and Naval Warfare Systems Center Robert Morris, Space and Naval Warfare Systems Center



Track 2: Network Centric Applications



The Vital Role of Intelligent Software Agents in Enabling Net-Centric Command and Control Dr. Dale E. Lichtblau, Institute for Defense Analyses

Web Enabling HLA Compliant Simulations to Support Network
Centric Applications
Katherine L. Morse, Ph.D., SAIC
David L. Drake, SAIC
Ryan P.Z. Brunton, SAIC



Track 4: C4ISR/C2 Architectures



C2 Product-Centric Approach to Transforming Current C4ISR Information Architectures

Dr. Israel Mayk, US Army Communications-Electronics Research

Bernard Goren, US Army Communications-Electronics Research



Track 5: C2 Assessment & Tools



Multi-Agent Simulation for Assessing Massive Sensor Deployment (Student)

Captain Sean Hynes, U.S. Marine Corps, U.S. Naval Postgraduate School

Neil C. Rowe, U.S. Naval Postgraduate School

An Exploration of C2 Effectiveness—A Holistic Approach
Neill Smith, Mission Software Pty Ltd
Thea Clark, Defence Science and Technology Organisation



Track 5: C2 Assessment & Tools



The M-OODA: A Model Incorporating Control Functions and Teamwork in the OODA Loop

Robert Rousseau, Defence Research and Development Canada, Valcartier

Richard Breton, Defence Research and Development Canada, Valcartier

An Empirical Assessment of the Impact of Requirements
Uncertainty on Development Quality Performance
Ayad Y. Aldaijy, Ph.D, Royal Saudi Air Force, (RSAF),
Ministry of Defense and Aviation



Track 6: C2 Decisionmaking & Cognitive Analysis



Agent-based Decision Support System for the Third Generation Distributed Dynamic Decision-making (DDD-III) Simulator (Student)

Candra Meirina, University of Connecticut

Sui Ruan, University of Connecticut

Feili Yu, University of Connecticut

Liang Zhu, University of Connecticut

Krishna R. Pattipati, University of Connecticut

David L. Kleinman, Naval Postgraduate School

Transforming Timed Influence Nets into Time Sliced Bayesian Networks (Student)

Sajjad Haider, George Mason University

Abbas K. Zaidi, George Mason University



Track 6: C2 Decisionmaking & Cognitive Analysis



An Approximation Technique for Belief Revision in Timed Influence Nets (Student)
Sajjad Haider, George Mason University
Alexander H. Levis, George Mason University

Value Focused Thinking: Guiding C2 System Interface Design Dr. Janet E. Miller, AFRL/HECS



Track 7: EBO & Emerging Concepts



Discourse of Action: Command, Control, Conflict and the Effects Based Approach

Robert Grossman-Vermaas, Department of National Defence (Canada) and Department of War Studies, King's College London (UK)

Operationalizing Effects-Based Operations (An EBO Methodology Based on Joint Doctrine)
Major Reginald J. Williams, ACC/XPSD

Mr. Rocky Kendall, ACC/XPSD



Track 8: NCO Transformation



Communication of Context in Multi-Echelon Information Exchange Environments

Heather M. Oonk, Pacific Science & Engineering Group, Inc.

Ronald A. Moore, Pacific Science & Engineering Group, Inc.

Jeffrey G. Morrison, Ph. D., Space and Naval Warfare Systems

Center



Track 9: C2 Experimentation



DISCCO: Generic Support for C2 and Decision-Making (Student)

Klas Wallenius, Royal Institute of Technology

Visualization for Tracking Battlefield Events in Time and Space for C2

Thomas Kapler, Oculus Info Inc William Wright, Oculus Info Inc



Track 10: C2 Human Factors Engineering



The Impact of Hybrid Team Structures on Performance and Adaptation: Beyond Mechanistic and Organic Prototypes
Dustin K. Jundt, Michigan State University
Danial R. Ilgen, Michigan State University
John R. Hollenbeck, Michigan State University
Stephan E. Humphrey, Michigan State University
Michael D. Johnson, Michigan State University
Christopher J. Meyer, Michigan State University



Track 10: C2 Human Factors Engineering CCR



An Intelligent Interface-Agent Framework for Robotic Command and Control

Dr. Scott D. Wood, Soar Technology, Inc.

Jack Zaientz, Soar Technology, Inc.

Jonathon Beard, Soar Technology, Inc.

Dr. Richard Frederiksen, Soar Technology, Inc.

Sean Lisse, Soar Technology, Inc.

Jacob Crossman, Soar Technology, Inc.

Dr. Marcus Huber, Intelligent Reasoning Systems



Track 11: Coalition Interoperability & Shared Awareness



Observations in Allocation and Tasking of Joint Level Intelligence Surveillance and Reconnaissance (ISR) Systems in Support of Coalition Operations

John L Mahaffey, NATO Consultation, Command and Control Agency

Information Engineering in Support of Multilateral Joint Operational Interoperability

Éric Dorion, M. Sc., Defence R&D Canada, ValCartier Anne-Claire Boury-Brisset, Ph. D., Defence R&D Canada, ValCartier



Track 12: Shared Awareness



Quantitative Analysis of Situational Awareness (QUASA): Applying Signal Detection Theory to True/False Probes and Self-Ratings

Barry McGuinness, BAE Systems

Distributed Command and Organizational Situation Awareness (Student)

Norman K. Ma, Texas A&M University

Thomas R. Ioerger, PhD, Texas A&M University

Model-Driven Development of Command and Control Capabilities for Joint and Coalition Warfare

Robert W. Jacobs, Computer Systems Center Inc.



Track 13: C2 & Homeland Security/Defense



Snap-Cards: A Dynamic Data Construct of Rapid Information Gathering and Integration for C2 Effectiveness in Homeland Security

Qiuming Zhu, University of Nebraska at Omaha Jeffrey D. Hicks, 21st Century Systems, Inc. Richard Flanagan, 21st Century Systems, Inc. Alexander Stoyen, 21st Century Systems, Inc.



2004 CCRTS Gary F. Wheatley Award



Best Student Paper

An Approximation Technique for Belief Revision in Timed Influence Nets

Sajjad Haider, George Mason University

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Best Paper

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