



The 2005 International Symposium on
Collaborative Technologies and Systems
(CTS 2005)



PROGRAM

(Subject to Change)

MAY 15 - 20, 2005

The Adam's Mark Hotel
Saint Louis, Missouri, USA

**In technical cooperation with the IEEE, IEEE Computer Society, and
IEEE Systems, Man and Cybernetics Society**



The 2005 International Symposium on Collaborative Technologies and Systems (CTS 2005)

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Junaid A. Zubairi, State University of New York – Fredonia, USA

SUNDAY, MAY 15, 2005

- 9:00 a.m. - 5:00 p.m. **CONFERENCE REGISTRATION**
Location: **Promenade Foyer**
- 9:00 a.m. - 9:05 a.m. **Welcome**
Symposium General Co-Chairs
Location: **Promenade F Ballroom**
- 9:05 a.m. - 10:30 a.m. **CTS 2005 TUTORIAL I (T I)**
Title: **Collaboration Services: Ensuring Operational Success**
Speaker: **Dr. Mark T. Maybury**
The MITRE Corporation, USA
Session Chairs: **Prof. Dr. Mads Nygård**
(Norwegian Univ. of Science & Technology, Norway)
Dr. Kirk A. Weigand
(Air Force Research Laboratory, Ohio, USA)
Location: **Promenade F**
- 10:30 a.m. - 10:45 a.m. **Coffee Break**
Location: **Promenade E**
- 10:45 a.m. - 12:15 a.m. **CTS 2005 TUTORIAL I (T 1) – Cont.**
Title: **Collaboration Services: Ensuring Operational Success**
Speaker: **Dr. Mark T. Maybury**
The MITRE Corporation, USA
Session Chairs: **Prof. Dr. Mads Nygård**
(Norwegian Univ. of Science & Technology, Norway)
Dr. Kirk A. Weigand
(Air Force Research Laboratory, Ohio, USA)
Location: **Promenade F**
- 12:15 a.m. - 1:30 p.m. **LUNCH (On Your Own)**
- 1:30 p.m. - 3:00 p.m. **CTS 2005 TUTORIAL I (T I) – Cont.**
Title: **Collaboration Services: Ensuring Operational Success**
Speaker: **Dr. Mark T. Maybury**
The MITRE Corporation, USA
Session Chairs: **Prof. Dr. Mads Nygård**
(Norwegian Univ. of Science & Technology, Norway)
Dr. Kirk A. Weigand
(Air Force Research Laboratory, Ohio, USA)
Location: **Promenade F**

3:00 p.m. - 3:15 p.m.

Coffee Break
Location: **Promenade E**

3:15 p.m. - 5:00 p.m.

CTS 2005 TUTORIAL I (T I) – Cont.

Title: Collaboration Services: Ensuring Operational Success

Speaker: Dr. Mark T. Maybury
The MITRE Corporation, USA

Session Chairs: Prof. Dr. Mads Nygård
(Norwegian Univ. of Science & Technology, Norway)
Dr. Kirk A. Weigand
(Air Force Research Laboratory, Ohio, USA)

Location: Promenade F

5:00 p.m. -

Sunday's Wrap-up
Location: Promenade F

Note: All CTS 2005 tutorials are available to attendees of CTS 2005 free of charge.

MONDAY, MAY 16, 2005

7:30 a.m. - 5:00 p.m.

CONFERENCE REGISTRATION

Location: **Promenade Foyer**

7:30 a.m. - 8:30 a.m.

Informal Meet & Greet - Coffee / Pastries

Monday Presenters and Session Chairs Get-together

Location: **Promenade E**

8:30 a.m. - 8:40 a.m.

CTS 2005 Welcome and Opening Remarks

William K. McQuay, CTS'05 General Chair

(IFSD – Air Force Research Laboratory, Ohio, USA)

Location: **Promenade F Ballroom**

8:40 a.m. - 10:10 a.m.

CTS 2005 Keynote Speech

Title: **Collaboration Operations: Ensuring Success**

Speaker: **Dr. Mark T. Maybury**

The MITRE Corporation, USA

Session Chair: **Dr. H. Barbara Sorensen**

(Air Force Research Laboratory, Arizona, USA)

Location: **Promenade F Ballroom**

10:10 a.m. - 10:30 a.m.

Coffee Break

Location: **Promenade E**

SESSION 1:

SPECIAL SESSION: MOBILE COLLABORATIVE WORK

Monday, May 16, 10:30 a.m. - 12:10 p.m.

Session Chair: **Drs. Alf Inge Wang and Heri Ramampiaro**

(Norwegian Univ. of Science & Technology, Norway)

Location: **Promenade F Ballroom**

1. Usability of a Mobile, Group Communication Prototype While Rendezvousing

Jeff Axup, Stephen Viller, and Nicola J. Bidwell

(University of Queensland and James Cook University, Australia)

2. Optimized Communication Using the SOAP Infoset for Mobile Multimedia Collaboration Applications

Sangyoon Oh, Hasan Bulut, Ahmet Uyar, Wenjun Wu, and Geoffrey Fox

(Indiana University and Syracuse University, USA)

3. Collaborative Approach for Modeling and Performing Mobile Software Process Components

Pierre F. Tiako

(Langston University in Oklahoma, USA)

4. Mobile Peer-to-Peer Technology used to Promote Spontaneous Collaboration

Alf Inge Wang, Carl-Fredrik Sorensen and Thomas Fossum

(Norwegian Univ. of Science & Technology and the Norwegian Institute for Air Research, Norway)

12:10 a.m. - 1:30 p.m. **LUNCH** (On Your Own)

SESSION 2:

SECURITY AND ACCESS CONTROL IN COLLABORATION (SS)

Monday, May 16, 1:30 p.m. - 3:10 p.m.

Session Chairs: **Prof. Dr. Maurizio Panti**

(Polytechnic University of Marche, Ancona, Italy)

Location: **Promenade F Ballroom**

1. **Personal Data Anonymization for Security and Privacy in Collaborative Environments**
Anas Abou El Kalam, Yves Deswarte, Gilles Trouessin, Emmanuel Cordonnier
(LIFO-ENSIB, LAAS-CNRS, Ernst&Young, and ETIAM, France)
2. **Efficient Directory Harvest Attacks**
Boldizsár Bencsáth and István Vajda
(Budapest University of Technology and Economics, Hungary)
3. **Job-Centric Security Model for Open Collaborative Environment**
Yuri Demchenko, Leon Gommans, Cees de Laat, Bas Oudenaarde, Andrew Tokmakoff, Martin Snijders
(Universiteit van Amsterdam and Telematica Institute, The Netherlands)
4. **NIDS Architecture for Clusters**
Fabrice Gadaud
(LIFO Orléans and CEA/DIF, France)

3:10 p.m. - 3:30 p.m. **Coffee Break**
Location: **Promenade E**

SESSION 3:

SECURITY AND ACCESS CONTROL IN COLLABORATION (SS)

Monday, May 16, 3:30 p.m. - 5:10 p.m.

Session Chairs: **Prof. Dr. Boldizsár Bencsáth**

(Budapest University of Technology and Economics, Hungary)

Location: **Promenade F Ballroom**

1. **A Scalable Authorization Approach for Grid System Environments**
Jiageng Li
(Department of Computer Science, University of West Georgia, USA)
2. **Model Checking the Security of Multi-Protocol Systems**
M. Panti, Luca Spalazzi, S. Tacconi and F. Pagliarecci
(DIIGA, Polytechnic University of Marche, Ancona, Italy)
3. **Intrusion Detection and Security Policy Framework for Distributed Environments**
Anas Abou El Kalam, Jérémy Briffaut, Christian Toinard, and Mathieu Blanc
(LIFO-CNRS, Orleans and Commissariat à l'Energie Atomique, France)
4. **A Queue Model to Detect DDos Attacks**
Shuang Hao, Hua Song, Wenbao Jiang, and Yiqi Dai
(Tsinghua University, Beijing, P.R. China)
5. **Building an Inter-IDS Central Analysis Platform in the Network Center of China's Central Bank**
Zhen Zhao
(Electrical and Computer Engineering Department, Drexel University, PA, USA) – No Presentation

SESSION 4: 5:10 p.m. – 5:40 p.m.

CTS 2005 DEMO I

Human Collaboration Tools for Net-Centric Operations

Ty W. Hayden and Chris Ward

(Ball Aerospace & Technologies Corp., Ohio, USA)

Session Chair: Dr. Anas Abou El Kalam

(LIFO-CNRS, Orleans and ENSI-Bourges, France)

Location: Promenade F Ballroom

5:40 p.m. -

Monday's Wrap-up

Location: Promenade F Ballroom

6:00 p.m. -

CTS 05 Exhibitors Reception

Sponsored by

Ball Aerospace & Technologies Corp.

Expand, Inc.

FTI

SAIC

Location: Promenade E

TUESDAY, MAY 17, 2005

7:30 a.m. - 5:00 p.m.

CONFERENCE REGISTRATION

Location: **Promenade Foyer**

7:30 a.m. - 8:30 a.m.

Informal Meet & Greet - Coffee / Pastries

Tuesday Presenters and Session Chairs Get-together

Location: **Promenade E**

SESSION 5:

COLLABORATION ENABLING TECHNOLOGIES, GROUPWARE, ARTIFACTS

Tuesday, May 17, 8:30 a.m. - 10:10 a.m.

Session Chairs: **Drs. Kathleen Swigger** (University of North Texas, TX, USA) and
Robert Biuk-Aghai (University of Macau, Macau S.A.R., China)

Location: **Promenade F Ballroom**

1. Investigating the Performance of Audio/Video Service Architecture I: Single Broker

Ahmet Uyar and Geoffrey Fox
(Syracuse University and Indiana University, USA)

2. Investigating the Performance of Audio/Video Service Architecture II: Broker Network

Ahmet Uyar and Geoffrey Fox
(Syracuse University and Indiana University, USA)

3. Adapting the Electronic Laboratory Notebook for the Semantic Era

Tara Talbott, Michael Peterson, Jens Schwidder and James Myers
(Pacific Northwest National Laboratory, WA, USA)

4. A Multiuser Groupware Calendar System based on Agent Tools and Technology

Alberto Grosso, Christian Vecchiola, Mauro Coccoli and Antonio Bocalatte
(University of Genova, Italy)

10:10 a.m. - 10:30 a.m.

Coffee Break

Location: **Promenade E**

10:30 a.m. - 12:00 p.m.

CTS 2005 Keynote Speech

Title: **Research and Emerging Trends in Social Computing**

Speaker: **Dr. Wendy A. Kellogg**

IBM T.J. Watson Research Center, USA

Session Chair: **Dr. Nahum Gershon**

(The MITRE Corporation, VA, USA)

Location: **Promenade F Ballroom**

12:00 p.m. - 1:30 p.m.

LUNCH (On Your Own)

**SESSION 5:
(Cont.)**

COLLABORATION ENABLING TECHNOLOGIES, GROUPWARE, ARTIFACTS

Tuesday, May 17, 1:30 p.m. - 2:20 p.m.

Session Chairs: **Drs. Robert Biuk-Aghai** (University of Macau, Macau S.A.R., China) and
Kathleen Swigger (University of North Texas, TX, USA)

Location: **Promenade F Ballroom**

5. Collaborative Knowledge Management in e-Meetings

Chia Y. Han and Jerome Eric Luczaj

(University of Cincinnati and the College of Mount St. Joseph, Ohio, USA)

6. AI Workflow Management in a Collaborative Environment

Michelle Cheatham and Michael T. Cox

(Information Directorate, AFRL, Ohio, USA)

SESSION 6:

DISTRIBUTED TEAMWORK, COMMUNITIES & SOCIOCULTURAL DYNAMICS

Tuesday, May 17, 2:20 p.m. - 3:10 p.m.

Session Chair: **Dr. Jameela Al-Jaroodi** (Stevens Institute of Technology, NJ, USA)

Location: **Promenade F Ballroom**

1. A Case Study of Student Software Teams Using Computer-Supported Software

Kathleen Swigger, Robert Brazile, Bryan Harrington, Shawn Peng and Ferda Alpaslan
(University of North Texas, USA and Middle East Technical University, Turkey)

2. Context Informed Cross Cultural Collaboration in Stability and Support Operations

Mark A. Hoffman, Brian Kettler and Terry Padgett
(ISX Corporation, Marietta, GA, USA)

3:10 p.m. - 3:30 p.m.

Coffee Break

Location: **Promenade E**

SESSION 7: 3:30 p.m. – 6:00 p.m.

CTS 2005 TUTORIAL II (T2)

Global Multimedia Collaboration System

Dr. Geoffrey C. Fox

(Pervasive Technology Laboratories, Indiana University, USA)

Session Chairs: **Drs. Peter J. Kammer** (Endeavors Technology Inc., California, USA) and
Igor Hawryszkiewicz (University of Technology, Sydney, Australia)

Location: **Promenade F Ballroom**

6:00 p.m. -

Tuesday's Wrap-up

Location: **Promenade F Ballroom**

7:00 p.m. -

CTS 2005 BANQUET DINNER

Location: **Promenade E**

WEDNESDAY, MAY 18, 2005

7:30 a.m. - 5:00 p.m.

CONFERENCE REGISTRATION

Location: **Promenade Foyer**

7:30 a.m. - 8:30 a.m.

Informal Meet & Greet - Coffee / Pastries

Wednesday Presenters and Session Chairs Get-together

Location: **Promenade E**

SESSION 8:

MULTI AGENT SYSTEMS & AGENT-BASED TECHNIQUES IN COLLABORATION

Wednesday, May 18, 8:30 a.m. - 10:10 a.m.

Session Chair: **Mr. Gary Whitted** (Ball Aerospace & Technologies, Ohio, USA)

Location: **Promenade F Ballroom**

1. An Agent-Base Supply-Chain Management

Maurizio Panti, Francesco Pagliarecci, and Luca Spalazzi
(DIIGA, Polytechnic University of Marche, Ancona, Italy)

2. Middleware-Level Collaborative Resource Discovery for Large Clusters

Jameela Al-Jaroodi, and Nader Mohamed
(Stevens Institute of Technology, Hoboken, NJ, USA)

3. Path Planning for Altruistically Negotiating Processes

Deepthi Devalarazu and Daniel W. Watson
(Utah State University, Logan, UT, USA)

4. MASSE: Environment Supporting for Simulation and Analysis of Multiagent Systems

Tomomi Takashina, Bi Zhenbo, Damba Ariuna, Zhi Guilan, Kazuhide Tanaka, Hiroki Sayama, and Shigeyoshi Watanabe
(Nikon Systems Inc., and The University of Electro-Communications, Tokyo, Japan)

10:10 a.m. - 10:30 a.m.

Coffee Break

Location: **Promenade E**

10:30 a.m. - 12:00 p.m.

CTS 2005 Keynote Speech

Title: **Trends in Collaborative Technologies for Supporting Knowledge Management**

Speaker: **Dr. Jonathan Grudin**

Adaptive Systems and Interaction Group,
Microsoft Research, USA

Session Chair: **Dr. Geoffrey Fox**

(Indiana University, Indiana, USA)

Location: **Promenade F Ballroom**

12:00 p.m. – 1:45 p.m.

CTS 2005 LUNCHEON

LUNCHEON KEYNOTE SPEECH

**Storytelling, Visualization and Collaboration – Beyond
Words & Images**

Dr. Nahum Gershon
The MITRE Corporation
McLean, VA, USA

Session Chair: **Dr. David W. Barnett**
(Saint Louis University, Missouri, USA)

LOCATION: **Promenade E**

1:45 p.m. - 1:55 p.m.

Short Break
Location: **Promenade E**

SESSION 9:

COLLABORATIVE WORK PRACTICES AND SUPPORT

Wednesday, May 18, 1:55 p.m. - 3:10 p.m.

Session Chair: **Dr. Ashfaq Khokhar** (University of Illinois – Chicago, USA)

Location: **Promenade F Ballroom**

1. **Achieving Groupware Flexibility Through Metamodel Mappings**
Igor Hawryszkiewicz
(University of Technology, Sydney, Australia)
2. **An Architectural Style for Supporting Work Practice: Coping with the Complex Structure of Coordination Relationships**
Peter J. Kammer and Richard N. Taylor
(Endeavors Technology Inc. and University of California, Irvine, USA)
3. **Visualization of Interactions in an Online Collaboration Environment**
Robert Biuk-Aghai
(University of Macau, Macau S.A.R., China)

3:10 p.m. - 3:30 p.m.

Coffee Break
Location: **Promenade E**

3:30 p.m. – 5:00 p.m. CTS 2005 PANEL SESSION

Conducting Business in Network Centric Collaborative Environments

MODERATOR: Mr. Vance Saunders (Ball Aerospace & Technologies Corp., Ohio, USA)

PANELISTS: Dr. Paul Bailor (Lockheed Martin Integrated Systems & Solutions)
Dr. Charles Cohen (VP, Cybernet Systems Corp., USA)
Dr. Ann Miller (University of Missouri – Rolla)
Dr. Barbara Sorensen (Air Force Research Laboratory, USA)

Location: Promenade F Ballroom

SESSION 10: 5:00 p.m. – 5:30 p.m. CTS 2005 DEMO II

Pegasus Gateway: Cyberspace Collaboration

Drs. Kyoung-Yun Kim, Yan Wang, Bart O. Nnaji, and Mr. David Manley
(US NSF I/UCRC for e-Design, University of Pittsburgh, USA)

Session Chair: Dr. Tomas Vitvar (National University of Ireland, Galway, Ireland)

Location: Promenade F Ballroom

5:30 p.m. -

Wednesday's Wrap-up

Location: Promenade F Ballroom

THURSDAY, MAY 19, 2005

7:30 a.m. - 5:00 p.m.

CONFERENCE REGISTRATION

Location: **Promenade Foyer**

7:30 a.m. - 8:30 a.m.

Informal Meet & Greet - Coffee / Pastries

Thursday Presenters and Session Chairs Get-together

Location: **Promenade E**

SESSION 11:

COLLABORATIVE NETWORKING INFRASTRUCTURE (SS)

Thursday, May 19, 8:30 a.m. - 9:20 a.m.

Session Chair: **Dr. Hillol Kargupta** (AGNIK, LLC, Maryland, USA)

Location: **Promenade F Ballroom**

1. Multicast Support for Collaborative Networking

Lori A. Flynn and Hans-Peter Dommel

(Bell Laboratories - Lucent Technologies and Santa Clara University, USA)

2. Network Lag Mitigation Methods in Collaborative Distributed Simulations

Shervin Shirmohammadi, Nancy Ho Woo and Sara Alavi

(University of Ottawa, Canada)

SESSION 12:

MODELING, SIMULATION AND PROTOTYPING FOR COLLABORATIVE ENVIRONMENTS

Thursday, May 19, 9:20 a.m. - 10:10 a.m.

Session Chair: **Mr. Scott S.F. Tse** (SplashNote Systems, Inc., California, USA)

Location: **Promenade F Ballroom**

1. Ontology-based Virtual Assembly Model for Collaborative Virtual Prototyping and Simulation

Kyoung-Yun Kim, David G. Manley, Hyungjeong Yang, and Bart O. Nnaji

(Department of Industrial Engineering and NSF Center for e-Design, University of Pittsburgh, USA)

2. Virtual Environment for On-Campus Orientation

Robert Larmore, Matthew Knaus, Sergiu Dascalu and F.C. Harris, Jr.

(University of Nevada, Reno, Nevada, USA)

10:10 a.m. - 10:30 a.m.

Coffee Break

Location: **Promenade E**

10:30 a.m. - 12:00 p.m.

CTS 2005 Keynote Speech

Title: **Collaborative Interaction and Responsive Environments - Sensors that Enable Individuals and Instrument Multitudes**

Speaker: **Dr. Joseph A. Paradiso**

MIT Media Laboratory,
Cambridge, MA, USA

Session Chair: **Dr. Jonathan Grudin** (Microsoft Research, WA, USA)

Location: **Promenade F Ballroom**

12:00 p.m. - 1:30 p.m. **LUNCH** (On Your Own)

SESSION 13:

WEB INFRASTRUCTURE AND SERVICES FOR COLLABORATIVE APPLICATIONS AND PLATFORMS

Thursday, May 19, 1:30 p.m. - 3:10 p.m.

Session Chair: **Dr. Tomomi Takashina** (Nikon Systems Inc., Tokyo, Japan)

Location: **Promenade F Ballroom**

1. **RikWik: An Extensible XML Based Wiki**
Richard Mason and Paul Roe
(Queensland University of Technology, Brisbane, Australia)
2. **Developing an Open Knowledge Discovery Support System for a Network Environment**
Claudia Diamantini, Domenico Potena and Maurizio Panti
(Università Politecnica delle Marche, Ancona, Italy)
3. **On a Collaborative Commerce Framework and Architecture for the Next Generation Commerce**
Seung-yun Kim and Waleed W. Smari
(University of Dayton, Ohio, USA)
4. **Advances in E-Business Collaboration: Semantic Web Services in SAP R/3 B2B Integration**
Tomas Vitvar
(National University of Ireland, Galway, Ireland)

3:10 p.m. - 3:30 p.m. **Coffee Break**
Location: **Promenade E**

SESSION 14:

MOBILE AND WIRELESS COLLABORATIVE SYSTEMS

Thursday, May 19, 3:30 p.m. - 5:10 p.m.

Session Chair: **Dr. Sergiu Dascalu** (University of Nevada, Reno, Nevada, USA)

Location: **Promenade F Ballroom**

1. **A Clustering Prediction Scheme for Wireless Cellular Network**
John Tsiligaridis and Raj Acharya
(Heritage University, Washington, USA)
2. **Experiments on Mobile Context-Aware Instant Messaging**
Mikko Perttunen, Jukka Riekkki, Kirsi Koskinen and Marika Tähti
(University of Oulu, Oulu, Finland)
3. **Visualizing Handheld-Based Classroom Activity**
Deborah Tatar, Sirong Lin and Margaret Dickey
(Center for Human-Computer Interaction, Virginia Tech, Virginia, USA)
4. **Technical Approaches for Achieving Multi-Resource Polymorphic Collaboration**
Mike Matthews, Robert Hohne, and Shawn Orban
(Air Force Research Laboratory and Ball Aerospace & Technologies Corp., Ohio, USA)

SESSION 15: 5:10 p.m. – 5:40 p.m.

CTS 2005 DEMO III

Composing Executable Architectures from Legacy Simulations

Dr. John Woodring
(Expand, Inc., Florida, USA)

Session Chair: Dr. John Tsiligaridis (Heritage University, Washington, USA)

Location: Promenade F Ballroom

5:40 p.m. -

Thursday's Wrap-up

Location: Promenade F Ballroom

FRIDAY, MAY 20, 2005

7:30 a.m. - 5:00 p.m.

CONFERENCE REGISTRATION

Location: Promenade Foyer

7:30 a.m. - 8:30 a.m.

Informal Meet & Greet - Coffee / Pastries

Friday Presenters and Session Chairs Get-together

Location: Promenade E

SESSION 16:

COLLABORATIVE ROBOTS AND AUTONOMOUS VEHICLES (SS)

Friday, May 20, 8:30 a.m. - 10:10 a.m.

Session Chairs: **Dr. Kuo-Chi Lin** (University of Central Florida, Orlando, FL, USA) and
Mr. Louis Chan (IFSD - Air Force Research Lab, Ohio, USA)

Location: **Promenade F Ballroom**

1. An Extended Time Horizon Search Technique for Cooperative Unmanned Vehicles to Locate Mobile RF Targets

Daniel J. Pack and George W.P. York
(United States Air Force Academy, Colorado, USA)

2. Resource Allocation Strategies for a Multi Sensor Surveillance

K. Madhava Krishna and Henry Hexmoor
(Indian Institute of Information Technology, India and University of Arkansas, USA)

3. Fuzzy Petri Net for UAV Decision Making

Martin C. Lundell, Jingpeng Tang, and Kendall Nygard
(University of Minnesota – Crookston and North Dakota State University, USA)

4. New Trajectory Generation Methods for Nonholonomic Mobile Robots

Wenjie Dong and Yi Guo
(University of Central Florida, Florida, USA)

10:10 a.m. - 10:30 a.m.

Coffee Break

Location: Promenade E

**SESSION 16:
(Cont.)**

COLLABORATIVE ROBOTS AND AUTONOMOUS VEHICLES (SS)

Friday, May 20, 10:30 a.m. - 11:20 a.m.

Session Chairs: **Dr. Kuo-Chi Lin** (University of Central Florida, Orlando, FL, USA) and
Mr. Louis Chan (IFSD - Air Force Research Lab, Ohio, USA)

Location: **Promenade F Ballroom**

5. Using Genetic Algorithms to Evolve the Control Rules of a Swarm of UAVs

Jaime Soto and Kuo-Chi Lin
(University of Central Florida, Florida, USA)

6. Constrained Search for a Moving Target

Don A. Grundel
(AFRL/MNGN, Eglin Air Force Base, Florida, USA)

SESSION 17:

COLLABORATION FUNDAMENTALS AND FRAMEWORKS

Friday, May 20, 11:20 a.m. - 12:10 p.m.

Session Chair: **Dr. Henry Hexmoor** (University of Arkansas, USA)

Location: **Promenade F Ballroom**

1. The Essential Ingredients of Collaboration

Roy Soliman, Robin Braun and Simeon Simoff
(University of Technology, Sydney, Australia)

2. Self-Service Collaboration Applications: A New Paradigm in the Development and Deployment of Collaborative Environments

Scott S.F. Tse, Gene Moore and Sangeeta Narang
(SplashNote Systems, Inc., Santa Clara, California, USA)

12:10 p.m. - 1:30 p.m. LUNCH (On Your Own)

SESSION 18:

COLLABORATIVE DECISION MAKING, MODELING, AND SUPPORT

Friday, May 20, 1:30 p.m. - 3:10 p.m.

Session Chair: **Dr. John Woodring** (Expand, Inc., Florida, USA)

Location: **Promenade F Ballroom**

1. A Collaborative Distributed Privacy-Sensitive Decision Support System for Monitoring Heterogeneous Data Sources

Hillol Kargupta, Kakali Sarkar, Dipti Aswath and William D. Handy
(AGNIK, LLC, Columbia, Maryland, USA)

2. The JavaRank Decision Support Tool and the Benefits and Challenges of Converting an Existing Desktop Application into a Distributed Collaborative Tool

Tim Cox and Jerome Reaper
(Science Applications International Corp., Ohio, USA)

3. Advanced Collaborative Technologies Supporting the 21st Century Warfighter in a Network Centric Environment

Gary A. Whitted and Mary E. Just
(Ball Aerospace & Technologies, Corp. and the Air Force Research Laboratory, Ohio, USA)

4. Leveraging Collaborative Technologies to Support Integrated Human Based-Automated Command and Control Process Test and Evaluation in the Virtual Testbed for Advanced Command and Control

David Green, Jerome Reaper, Bradley Dunaway and Joel Dallaire
(Science Applications International Corp., Ohio, USA)

**CLOSING
SESSION:**

CTS 2005 CONCLUSIONS AND FINAL REMARKS

Friday, May 20, 3:10 p.m. - 3:20 p.m.

Session Chairs: **CTS Organizers**

Location: **Promenade F Ballroom**

IMPORTANT NOTES:

Presentations are scheduled for a maximum time of **25 minutes**, including Q&A.

Presentations can be in electronic (Power Point) or overhead transparencies formats.

There will be a laptop and an LCD available for all presenters in the conference room as well as overhead projector.

All presenters are requested to upload their presentations upon arrival at the Registration Desk. There will be a laptop available for this purpose. Please have your presentation file named using session no. and paper code (**S-xx, C-yyy**). You may bring your file on a CD or a USB flash stick.

On each conference day, presenters and sessions chairs on that day are invited to **Speaker Breakfast** between 7:30-8:30 am. Please use this opportunity to meet each other and clarify/resolve any issues that you may have in preparation for the session. We hope that all sessions and presentations will go very smoothly.

Floor Plan:

