

## An Internet of Things Resource for Rehabilitation

Brooks, Anthony Lewis; Petersson, Eva

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**CTS 2014 Sessions – Preliminary**  
**(Subject to changes)**

(Underlined name is the official paper presenter)

**KEYNOTES AND PLENARY PAPERS**

**Talking in the Zooniverse: A Collaborative Tool for Citizen Scientists**

Lucy Fortson, Stuart Lynn

School of Physics and Astronomy, University of Minnesota – Twin Cities, Minnesota, USA; Citizen Science Department, Adler Planetarium, Illinois, USA

**TUESDAY, MAY 20, 2014**

**Social Computing, New Media and Networks**

**Tuesday, May 20 10:20-12:20**

**1. Identifying and Shifting Social Media Network Patterns with NodeXL**

Marc Smith

Connected Action, Inc., and Social Media Research Foundation, California, USA

**2. Elite Size and Resilience Impact on Global System Structuration in Social Media**

Sorin Adam Matei, Wutao Tan, Michael Zhu, Chuanhai Liu, Elisa Bertino, Jeremy Foote

Purdue School of Communications, Purdue University, Indiana, USA

**3. The Networked Gatekeeping Process for News in the 21st Century**

Thomas Ernste

University of Minnesota – Twin Cities, Minnesota, USA

**4. Design and Implementation of Web-based Collaborative Social Curation**

Abbas Ali Butt, Jaehyuk Park, Yong-Moo Kwon

IMRC - Korea Institute of Science and Technology (KIST), Seoul, South Korea; University of Science and Technology, Daejeon, South Korea

**5. Combining Smart Energy Meters with Social Media: Increasing Energy Awareness using Data Visualization and Persuasive Technologies**

Julie Marie Røsok

Østfold University College, Halden, Norway

**Virtual Teams and Collaborative Teamwork**

**Tuesday, May 20 13:20-15:20**

**1. Leadership Styles and Their Effect on the Structure of Communication Response Patterns among Global Virtual Teams**

Ian Brooks, Kathy Swigger

University of North Texas, Texas, USA

**2. Asynchronous Understanding of Creative Sessions using Archived Collaboration Artifacts**

Lutz Gericke, Matthias Wenzel, Christoph Meinel

Hasso-Plattner-Institut, Potsdam, Germany

**3. Notifications Management in Distributed Development Environments: A Case Study**

Hani Bani-Salameh, Clinton Jeffery

The Hashemite University, Zarqa, Jordan; University of Idaho, Idaho, USA

- 4. Semantic Conflict Reduction Through Automated Feature Reservation in Multi-user Computer-Aided Design**  
Ammon Hepworth, Bryce DeFigueiredo, Devin Shumway, Nathan Fronk, C. Greg Jensen  
Brigham Young University, Utah, USA

**Human Centered Systems and Collaboration Awareness      Tuesday, May 20   15:40-17:00**

- 1. Supporting Practice-centered Awareness in Computer-Mediated Collaboration across Communities of Practice**  
Obinna Anya, Hissam Tawfik  
IBM Research - Almaden, California, USA; Liverpool Hope University, U.K.
- 2. A Case Study in Seeding Collaboration Transformation with Experience Themes**  
Faith McCreary, Marla Gomez, Cindy Pickering, Susan Michalek, Anne McEwan, Deidre Ali  
Intel Corporation, Oregon, USA; Emerson Network Power, Ohio, USA
- 3. Spatial-Temporal Characterization of an Urban Environment Using Twitter**  
Víctor R. Martínez Palacios, Víctor M. González  
Instituto Tecnológico Autónomo de México (ITAM), Mexico City, Mexico

**The Second International Symposium on Big Data and Data Analytics in Collaboration (BDDAC 2014)      Tuesday, May 20   10:20-12:20**

- 1. Large-scale Entity Extraction and Probabilistic Record Linkage**  
Flavio Villanustre, Reed Elsevier  
LexisNexis Risk Solutions, Georgia, USA
- 2. sCooL: A System for Academic Institution Name Normalization**  
Ferosh Jacob, Faizan Javed, Meng Zhao, Matt McNair  
CareerBuilder.com, Georgia, USA
- 3. Deep Linguistic Analysis based NLP for Accurate Sentiment Analysis in Social Media**  
Antonio Valderrabanos, Enrique Torrejon  
BITEXT, Madrid, Spain
- 4. Handling Class Imbalance in Customer Behavior Prediction**  
Nengbao Liu, Wei Lee Woon, Zeyar Aung, Afshin Afshari  
Masdar Institute of Science and Technology, Abu Dhabi, United Arab Emirates
- 5. Defining Architecture Components of the Big Data Ecosystem**  
Yuri Demchenko, Cees de Laat, Peter Membrey  
University of Amsterdam, The Netherlands; Hong Kong Polytechnic University, Hong Kong SAR, China

**The Fifth International Collaborative Robots and Human Robot Interaction (CR-HRI 2014)**

**Tuesday, May 20   13:20-15:20 & Tuesday, May 20   15:40-17:00**

- 1. Socializing Co-Robots: Incorporating Users and Situated Interaction in the Design of Collaborative Robots**  
Selma Šabanović (Invited)  
School of Informatics and Computing, Indiana University - Bloomington, Indiana, USA
- 2. Alignment or Collaboration? How Implicit Views of Communication Influence Robot Design**  
Kerstin Fischer  
IFKI - University of Southern Denmark, Denmark
- 3. Human-Like Motion of a Humanoid in a Shadowing Task**  
Yasser Mohammad, Toyooki Nishida

Assiut University, Egypt; Kyoto University, Japan

**4. SafeRobots: A Model-Driven Approach for Designing Robotic Software Architectures**

Arun Kumar Ramaswamy, Bruno Monsuez, Adriana Tapus  
ENSTA-ParisTech, Palaiseau, France; VeDeCom Institute, Versailles, France

**5. Studying Verbal Feedback in Human Collaborations to Inform Robot Speech Production**

Aaron St. Clair, Maja Matarić  
University of Southern California - Los Angeles, California, USA

**6. PopArm: A Robot Arm for Embodying Video-Mediated Pointing Behaviors**

Yuya Onishi, Kazuaki Tanaka, Hideyuki Nakanishi  
Osaka University - Suita, Osaka, Japan

**The Fourth International Symposium on Security in Collaboration Technologies and Systems (SECOTS 2014)**

**Tuesday, May 20 10:20-12:20 & Tuesday, May 20 13:20-15:20**

**1. CollAC: Collaborative Access Control**

Stan Damen, Jerry den Hartog, Nicola Zannone  
Technische Universiteit Eindhoven, The Netherlands

**2. A Non-Technical XACML Target Editor for Dynamic Access Control Systems**

Bernard Stepien, Amy Felty, Stan Matwin  
University of Ottawa, Ontario, Canada; Dalhousie University, Nova Scotia, Canada

**3. Securing Cognitive Radio Networks against Belief Manipulation Attacks via Trust Management**

Onur Savas, Gahng Seop Ahn, Julia Deng  
Intelligent Automation, Inc., Rockville, MD 20855, Maryland, USA

**4. Addressing Privacy Issues in Location-based Collaborative and Distributed Environment**

Andrea Saracino, Daniele Sgandurra, Dayana Spagnuolo  
Istituto di Informatica e Telematica -Consiglio Nazionale delle Ricerche (CNR), Italy; Universidade Federal de Santa Catarina, Brazil

**5. REDIR: Automated Static Detection of Obfuscated Anti-Debugging Techniques**

Adam J. Smith, Robert F. Mills, Adam R. Bryant, Gilbert L. Peterson, Michael R. Grimalia  
Air Force Institute of Technology; Cyber Research Laboratory - Riverside Research, Ohio, USA

**6. Mobile Malware Security Challenges and Cloud-Based Detection**

Nicholas F. Penning, Michael Hoffman, Jason Nikolai, Yong Wang  
Dakota State University - Madison, South Dakota, USA

**7. Enhanced Mobile Security Using SIM Encryption**

Nader Nassar, Richard Newhook, Grant Miller  
CIO Lab - Somers, IBM Corporation, New York; CIO Lab – Egg Harbor City, IBM Corporation, New Jersey;  
CIO Lab - Arvada, IBM Corporation, Colorado, USA

**8. MobileGuardian: A Security Policy Enforcement Framework for Mobile Devices**

Yong Wang, Karthik Vangury, Jason Nikolai  
Dakota State University - Madison, South Dakota, USA

**9. EMV-TLS, A Secure Payment Protocol for NFC Enabled Mobiles**

Pascal Urien  
Telecom ParisTech, Paris, France

#### **10. Pay2You Places: The Mobile Payment with Geo-location**

Marc Pasquet, Ndiaga Faye, Joan Reynaud

Laboratoire GREYC, UNICAEN (Université Normande, France), ENSICAEN, CNRS, Caen, France

### **Intelligent Human-Machine Interfaces, Multimodality and Collaborative Interaction**

**Tuesday, May 20 15:30-17:00**

#### **1. Device Ecologies to Support Collaborative Learning in Classrooms**

Emma Mercier

(Invited)

University of Illinois at Urbana-Champaign, Illinois, USA

#### **2. Cross-Device Transfer in a Collaborative Multi-Surface Environment without User Identification**

Stacey D. Scott, Guillaume Besacier, Phillip J. McClelland

University of Waterloo, 200 University Ave, Waterloo, ON, Canada

#### **3. Acting Together by Mutual Control: Evaluating a Multimodal Interaction Concept for Cooperative Driving**

Markus Zimmermann, Stefan Bauer, Niklas Lütteken, Iris Maria Rothkirch, Klaus Bengler

Institute of Ergonomics, Technische Universität München, Germany

### **POSTER SESSION & RECEPTION POSTER PAPERS**

**Tuesday, May 20 17:40-21:00**

#### **1. Information Exchange and Fusion in a Collaborative Environment using Semantic Information Requirements**

Joshua M. Powers, Keith D. Shapiro, David S. Monk

Securboracion Inc., Florida, USA; CST Corporation, Scott AFB, Illinois, USA

#### **2. An Effective Approach Using Eco-feedback to Motivate Energy Conservation Behaviors**

Hieu Huynh Chi

Ostfold University College, Halden, Norway

#### **3. Saving Energy with Pleasure: Designing EnergyRace Web Application**

Ksenia Dmitrieva

Ostfold University College, Halden, Norway

#### **4. Promoting Energy Efficient Behavior through Energy-related Feedback**

Que Tran

Ostfold University College, Halden, Norway

#### **5. Collaborative System to Investigate Mental Models: the Information Architecture Automatic Tool (IAAT)**

Cristina Olaverri-Monreal, Joel Goncalves

Technische Universitt Mnchen, Germany

#### **6. A New Scheme to Evaluate the Accuracy of Knowledge Representation in Automated Breast Cancer Diagnosis**

Juan Shan, Lin Li

Pace University, New York, USA; Murray State University, Kentucky, USA

#### **7. Disaster Relief Management and Resilience Using Photovoltaic Energy**

Salahuddin Qazi, William Young

State University of New York Institute of Technology, New York, USA; SUN Tree Consulting, Florida, USA

### **TECHNICAL POSTERS**

1. **From Microscope to Computer: Using Facebook to Assist Medical Laboratory Scientists in Nigeria Access and Navigate eLearning Courses**  
Jarret Cassaniti, Lisa Mwaikambo, Rebecca Shore, Nandini Jayarajan  
 Center for Communication Programs, Johns Hopkins University, Maryland, USA
2. **Semantic Search & Integration to Climate Data**  
Ranjeet Devarakonda, Giriprakash Palanisamy, Line C. Pouchard, Biva Shrestha  
 Oak Ridge National Laboratory, Tennessee, USA
3. **Triggering Creativity through Semantic Cross-domain Web Crawling and Routing**  
 Francesco Taglino, Fabrizio Smith  
 Institute for System Analysis and Computer Science, CNR, Rome, Italy
4. **Integration of Emerging Learning Technologies in Secondary Schools: A Burkina Faso Case Study**  
Romarie R. Zongo  
 University of Minnesota – Twin Cities, Minnesota, USA
5. **Visualization of Energy Consumption: Motivating for a Sustainable Behaviour Through Social Media**  
Caroline Sofie Olsen  
 Østfold University College, Halden, Norway

## INDUSTRIAL POSTERS

1. **TBA**  
 TBA  
 (TBA)

## WEDNESDAY, MAY 21, 2014

### Collaborative Logistics, Planning, Services, and Management of Business Processes Wednesday, May 21 8:00-10:00

1. **Production, Takt and Lead Time Variation: Production Planning and Tardiness Probabilities in Small-Lot Casting**  
Steinar Kristoffersen  
 Møreforsking Molde AS, Norway
2. **Creating Value through Supplier Development: The Case of a Fish Feed Supplier to the Aquaculture Industry**  
Gabriele Hofinger Jünge  
 Møreforsking Molde AS, Norway
3. **Collaborative Engineering: A Framework for Engineering-to-order Companies**  
 Pavan Kumar Sriram, Erlend Alfnes, Steinar Kristoffersen  
 Norwegian University of Science and Technology (NTNU), Trondheim, Norway; Møreforskning AS Molde, Norway
4. **IT-enabled Collaborative Case Management - Principles and Tools**  
Sebastian Huber, Matthias Lederer, Freimut Bodendorf  
 Institute of Information Systems, University of Erlangen-Nuremberg, Germany
5. **Business Process Assignment and Execution in Mobile Environments**  
Tao Peng, Chi-Hung Chi, Annamaria Chiasera, Giampaolo Armellin, Marco Ronchetti, Cristina Matteotti, Crstian Parra, Aleksey Oleksiy Kashytsa, Gabriele Bonadiman  
 University of Trento, Italy; Centro Ricerche GPI, Trento, Italy; GPI, Trento, Italy; CSIRO, Hobart, Australia

## Mobile Systems and Wireless Sensor Networks for Collaboration

Wednesday, May 21 13:20-15:20

### 1. Collaborative Sensing and Control in Large-Scale Transportation Systems

Tian He,  
University of Minnesota – Twin Cities, Minnesota, USA

### 2. Cross-Layer Medium Access and Data Collection in Wireless Sensor Networks

Mohamed Hefaida  
University of Illinois at Chicago, Illinois, USA

### 3. A Secure Wake-up Scheme for Low Power Wireless Sensor Nodes

Oliver Stecklina, Stephan Kornemann, Michael Methfessel  
IHP Microelectronics GmbH, Frankfurt, Germany

### 4. An Efficient Lossless Data Reduction Algorithm for Cluster Based Wireless Sensor Network

Syed Misbahuddin, Mahjabeen Tahir, Samia Aijaz Siddiqui  
Bahria University - Karachi Campus and Sir Syed University of Engineering and Technology, Karachi, Pakistan

### 5. Mobile Application for Household Energy Consumption Feedback Using Smart Meters: Increasing Energy Awareness, Encouraging Energy Savings, and Avoiding Energy Peaks

Simon Pettersen Nguyen  
Ostfold University College, Halden, Norway

## Intelligent Agents and Multi-Agent Systems for Collaboration

Wednesday, May 21 15:20-17:20

### 1. Adopting Pedestrian Navigation Techniques for Multi-Robot Coordination

Stephen J. Guy (Invited)  
University of Minnesota - Twin Cities, Minnesota, USA

### 2. Event-based Awareness Promotion for Distributed Collaborative Activities

Guoray Cai, Bo Yu  
Pennsylvania State University, Pennsylvania, USA

### 3. Social Implications of Agent-based Planning Support for Human Teams

Wenchao Jiang, Joel E. Fischer, Chris Greenhalgh, Tom Rodden, Sarvapali D. Ramchurn, Feng Wu, Nicholas R. Jennings  
University of Nottingham, U.K.; University of Southampton, U.K.

### 4. A Decentralized Behavioral Model for Collective Foraging Problem

Ouarda Zedadra, Nicolas Jouandeau, Hamid Seridi, Antonio Guerrieri, Giancarlo Fortino  
LabSTIC Laboratory, 8 May 1945 University, Guelma, Algeria; Laboratoire d'Informatique Avancée de Saint-Denis (LIASD), Paris 8 University, Saint-Denis, France; DIMES - Università della Calabria, Italy

## Collaborative Knowledge Management and Discovery

Wednesday, May 21 8:00-10:00

### 1. An XMT-based Approach for Long-Term Preservation of Digital Videos based on the Extensible MPEG-4 Textual Format

Alexander Uherek, Sonja Maier, Uwe M. Borghoff  
Universität der Bundeswehr München, Neubiberg, Germany

### 2. Knowledge Discovery in Collaborative Design Projects

Xinghang Dai, Matta Nada, Ducellier Guillaume

Tech-cico and LASMIS, Université de Technologie de Troyes, Troyes, France

**3. A Methodology for Building Log of Collaboration Processes**

Claudia Diamantini, Laura Genga, Domenico Potena, Giuseppa Ribighini  
Università Politecnica delle Marche, Ancona, Italy

**4. Semantics-based Social Media for Collaborative Open Innovation**

Fabrizio Smith, Francesco Taglino  
Institute for System Analysis and Computer Science (IASI) - CNR, Roma, Italy

**5. An Integrated System for Social Information Discovery**

Claudia Diamantini, Domenico Potena, Alessandro Sabelli, Samuele Scattolini  
Università Politecnica delle Marche, Ancona, Italy; Mediamente Consulting s.r.l., Empoli, Italy

**Collaborative e-Learning, Crowdsourcing, and Education**  
**Wednesday, May 21 13:20-15:20**

**1. Useful Views of Student Artifacts and Activities: Supporting Student Use of an Open-ended Exploratory Construction Tool in the Classroom**

Kristin K. Lamberty  
University of Minnesota - Morris, Minnesota, USA

**2. Collaborative m-Learning Practice Using Educ-Mobile**

Susana Isabel Herrera, Cecilia Veronica Sanz  
National University of Santiago del Estero, Santiago del Estero, Argentina; National University of La Plata, La Plata, Argentina

**3. Targeted Question Answering on Smartphones Utilizing App Based User Classification**

Yavuz Selim Yilmaz, Bahadır Ismail Aydin, Murat Demirbas  
State University of New York - Buffalo, New York, USA

**4. How Quiz-based Tools Can Improve Students' Engagement and Participation in the Classroom**

Delfina Malandrino, Iliaria Manno, Giuseppina Palmieri, Vittorio Scarano, Giovanni Filatrella  
Università degli Studi di Salerno, Fisciano (SA), Italy; Università degli Studi del Sannio, Benevento, Italy

**5. An Architecture for Co-designing Participatory and Knowledge-intensive Serious Games: ARGILE**

Nour El Mawas  
Laboratoire d'Informatique de l'Université du Maine (LIUM), Laval, France

**Peer-to-Peer Networks for Collaboration and Social Computing**  
**Wednesday, May 21 15:20-17:20**

**1. Enhancing Collaborative Peer-to-Peer Systems using Resource Aggregation and Caching**

Anura P. Jayasumana  
Colorado State University - Fort Collins, Colorado, USA

**2. Secure Distributed Data Structures for Peer-to-Peer-based Social Networks**

Jens Janiuk, Alexander Mäcker, Kalman Graff  
University of Paderborn, Germany; University of Düsseldorf, Germany

**3. Exploiting Sleep-and-Wake Strategies in the Gnutella Network**

Salvatore Corigliano, Paolo Trunfio  
DIMES, University of Calabria, Rende (CS), Italy

**4. Evaluation of Video Streaming Performance over Peer-to-Peer Network**

Shafquat Ali Memon, Syed Raheel Hassan, Nisar Ahmed Memon



## WORK-IN-PROGRESS

**Wednesday, May 21 8:00-10:00**

**1. Web 2.0 Within Organisations Bridging the Gap between KM Technology Centred and People Centred Approaches**

Fayez Alqahtani, Jason Watson, Helen Partridge  
King Saud University, Riyadh, Saudi Arabia

**2. VDL-based Iconic Co-annotation in Crisis Management**

Xiaoyue Ma, Mohamed Sediri, Nada Matta, Jean-Pierre Cahier  
Xidian University, Xian, Shaanxi, China; Université de Technologie de Troyes, Troyes, France

**3. Towards an Inclusive Virtual Dressing Room for Wheelchair-Bound Customers**

Anthony L. Brooks, Eva Petersson Brooks  
Aalborg University, Esbjerg, Denmark

**4. Use of the Analogy Reasoning and Experience Feedback for Decision Support in Crisis Situation**

Mohamed Sediri, Nada Matta, Sophie Lorient, Alain Hugerot  
ICD/TechCICO - Université de Technologie de Troyes, France; Aube Emergency Department, Troyes, France

## Second International Workshop on Collaboration Technologies and Systems in Healthcare and Biomedical Fields (CoHeB 2014)

**Wednesday, May 21 13:20-15:20 & 15:40-17:20**

**1. Collaborating Across Telemedicine Specialties for Improved Cancer Care**

Elizabeth A. Krupinski (Invited)  
Department Medical Imaging, University of Arizona -Tucson, Arizona, USA

**2. TBA**

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TBA

**3. A Medical Domain Collaborative Anomaly Detection Framework for Identifying Medical Identity Theft**

Apurva Mohan  
Integrated Security Technologies, Honeywell ACS Labs, Minnesota, USA

**4. A Home-based Telerehabilitation Randomized Trial for Stroke Care: Effects on Falls Self-Efficacy and Satisfaction with Care**

Neale R. Chumbler, Xinli Li, Patricia Quigley, Miriam C. Morey, Dorian Rose, Patricia Griffiths, Jon Sanford, Helen Hoenig  
University of Georgia - Athens, Georgia, USA; US Department of Veterans Affairs National Surgery Office, Denver, Colorado, USA; James A. Haley VAMC (151R), HSR&D/RRD Center of Excellence: Maximizing Rehabilitation Outcomes, Tampa, Florida, USA; Durham VA Medical Center Older Americans Independence (Pepper) Center, Duke University School of Medicine, Durham, North Carolina, USA; College of Public Health and Health Professions, Gainesville, Florida, USA; Atlanta Dept of Veterans Affairs RR&D, Center for Visual and Neurocognitive Rehabilitation Birmingham/Atlanta GRECC & Emory University School of Medicine, Division of General Medicine & Geriatrics, Atlanta, Georgia, USA; Atlanta Dept. of Veterans Affairs RR&D, Center for Visual and Neurocognitive Rehabilitation Center for Assistive Technology, College of Architecture, Georgia Tech University, Atlanta, Georgia, USA; Physical Medicine & Rehabilitation Service, Durham VA Medical Center, Durham, North Carolina, USA

**5. When Technology Alone is Not Enough: A Discussion of a Struggling Telepsychiatry Project and Lessons from Model Programs**

Carolyn Lauckner, Pamela Whitten, Bree Holtz  
Michigan State University, Michigan, USA; University of Georgia, Georgia, USA

**6. A Novel Personal Health Network for Patient-Centered Chemotherapy Care Coordination**

Katherine K. Kim, Janice Bell, Sarah Reed, Jill G. Joseph, Richard Bold, Kimberlie L. Cerrone, Daniel Altobello, Joydip Homchowdhury  
University of California - Davis, California, USA; Tiatros Inc., California, USA

**7. A Similarity Measurement of Clinical Trials Using SNOMED - A Preliminary Study**

Duo (Helen) Wei, Tiara Campbell (Will be presented by Juan Shan)  
The Richard Stockton College of New Jersey, Galloway, New Jersey, USA

**8. An Internet of Things Resource for Rehabilitation**

Anthony Lewis Brooks, Eva Petersson Brooks  
Aalborg University, Esbjerg, Denmark

**THURSDAY, MAY 22, 2014**

**International Symposium on Collaborative Analysis and Reasoning Systems (CARS 2014)  
Thursday, May 22 10:20-12:00 & 13:40-15:50**

**1. Collaborative Analysis in the Intelligence Community: Research Opportunities**

Rita M. Bush  
IARPA, Office of the Director of National Intelligence, Washington, D.C., USA

**2. Collaborative Architecture for Analysis: Models of Hypothesis Structure and Coordination Mechanism**

Stanley J. Rosenschein  
BranchTime Technologies, Palo Alto, California USA

**3. Wikis, Semantics, and Collaboration**

Mark Greaves  
National Security Directorate, Pacific Northwest National Laboratory, Washington, USA

**4. Thinking from the System Architecture: A Better Methodology for Capture of Collaborative Knowledge**

Thomas McDermott, Jack Zentner, Nicholas Bollweg  
Georgia Tech Research Institute, Georgia, USA

**5. Ganging Up on Big Data: Computer-Intermediated Collaborative Analysis**

Mark Stefik, Hoda Eldardiry  
Palo Alto Research Center (PARC), California, USA

**6. User-Centered Design Guidelines for Collaborative Software for Intelligence Analysis**

Jean Scholtz, Alex Endert  
Visual Analytics, National Security Division, Pacific Northwest National Laboratory, Washington, USA

**7. TBA**

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**8. Roundtable Discussion**

Rita M. Bush (Moderator)  
IARPA, Office of the Director of National Intelligence, Washington, D.C., USA

**The Fourth International Workshop on Cloud Services and Web 2.0 Technologies for  
Collaboration (CSWC 2014)**

## Thursday, May 22 10:20-12:00 & 13:40-15:00

### 1. Opportunities for Data-Driven Cloud-based Mobile Optimization

William Myott, Thao Nguyen, Abhishek Chandra, George Karypis, Jon Weissman  
University of Minnesota-Twin Cities, Minnesota, USA

### 2. Feel Free to Cache: Towards an Open CDN Architecture for Cloud-based Content Distribution

Zhi-Li Zhang  
University of Minnesota-Twin Cities, Minnesota, USA

### 3. Nebula: Distributed Edge Cloud for Data-Intensive Computing

Mathew Ryden, Kwangsung Oh, Abhishek Chandra, Jon Weissman  
University of Minnesota-Twin Cities, Minnesota, USA

### 4. A Cloud-based Solution for Public Administrations: The Experience of the Regione Marche

Daniele Spiga, Enrico Fattibene, Matteo Manzali, Davide Salomoni, Valerio Venturi, Paolo Veronesi, Livio Fano, Andrea Valentini, Gian Mario Bilei, Hassen Riahi, Lorian Storch, Claudia Diamantini, Domenico Potena, Giuseppa Ribighini, Emanuele Storti, Damiano Falcioni, Daniele Fani, Barbara Re, Cinzia Amici, Serenella Carota, Francesco Cirillo, Maria Laura Maggiulli, Andrea Sergiacomi, Donatella Settimi  
CERN, Geneva, Switzerland; INFN CNAF, Bologna, Italy; Physics and Geology Department, University of Perugia, Perugia, Italy; INFN Perugia, Perugia, Italy; Department of Information Engineering, Marche Polytechnic University, Ancona, Italy; School of Science and Technology, University of Camerino, Camerino, Italy; Regione Marche, Ancona, Italy

### 5. Collaborative Marketplaces for eScience: A Medical Imaging Use Case

Mengsong Zou, Javier Diaz-Montes, Ivan Rodero, Manish Parashar, Ioan Petri, Omer Rana, Xin Qi, David J. Foran  
Rutgers University, New Jersey, USA; Cardiff University, U.K.; Rutgers University - Robert Wood Johnson Medical School, New Jersey, USA; Rutgers Cancer Institute of New Jersey, USA

### 6. SE+KNN: A Quality of Service Assessment Method to Handle Multiple Attributes

Hmood Al-Dossari, Jianhua Shao  
King Saud University, Riyadh, Saudi Arabia; Cardiff University, Cardiff, United Kingdom

### 7. End-to-End QoS Mapping and Aggregation for Selecting Cloud Services

Raed Karim, Chen Ding, Ali Miri, Xumin Liu  
Ryerson University, Ontario, Canada; Rochester Institute of Technology, New York, USA

## The Second International Workshop on Collaboration in Emergency Response and Disaster Management (ERDM 2014)

## Thursday, May 22 10:20-12:00 & 13:40-14:35

### 1. Ontology based Efficient Teamwork Strategies for Web based Agents in Rescue and Relief Operations

Asifa Altaf, Sarmad Sadik  
National University of Science and Technology, Pakistan

### 2. An Internet of Things Ontology for Earthquake Emergency Evaluation and Response

Luca Spalazzi, Gilberto Taccari, Andrea Bernardini  
Università Politecnica delle Marche, Ancona, Italy

### 3. A Review on Ground Penetrating Radar Technology for the Detection of Buried or Trapped Victims

Lorenzo Crocco, Vincenzo Ferrara  
IREA - Institute for Electromagnetic Sensing of the Environment and CNR, Naples, Italy; DIET, Sapienza University of Rome, Italy

### 4. Satellite Assisted Underwater Radio Communication for Emergency Services

M. Umar Khan, Andres Marin Lopez  
CAST, COMSATS Institute of IT, Pakistan; Universidad Carlos III, Madrid, Spain

**5. Modelling The Communication between Emergency Actors in Crisis Management**

Amina Saoutal, Jean-Pierre Cahier, Nada Matta  
Université de Technologie de Troyes, Troyes, France

**6. A Software Framework for Patient Data Handling in Emergencies and Disasters**

Robert Olson, Junaid A. Zubairi, Anatoliy Biliciler  
State University of New York - Fredonia, New York, USA

**Virtual Environments and Collaboration Applications**

**Thursday, May 22 14:35-15:50**

**1. Understanding Data through Collaboration: Developing Collaboration Support Tools for Expert Artists and Scientists**

Daniel Keefe  
University of Minnesota – Twin Cities, Minnesota, USA

**2. Scientific Collaboration in Virtual Environments: The Western Consortium Watershed Analysis, Visualization, and Exploration (WC-WAVE) Project**

Sergiu Dascalu  
University of Nevada – Reno, Nevada, USA

**3. Multi-Objective Optimization of Dead-Reckoning Error Thresholds for Virtual Environments**

Jeremy R. Millar, Douglas D. Hodson, Gary B. Lamont, Gilbert L. Peterson  
Air Force Institute of Technology, Wright-Patterson Air Force Base, Ohio, USA

**DOCTORAL DISSERTATION COLLOQUIUM**

**Thursday, May 22 15:00-15:50**

**1. A Federated Cloud of Things for Emergency Management**

Gilberto Taccari  
Università Politecnica delle Marche, Ancona, Italy  
Dissertation Adviser: Luca Spalazzi  
Discussant and Respondent: **TBA**

**2. TBA**

**TBA**  
Dissertation Adviser: **TBA**  
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