

# **2011 International Conference on Collaboration Technologies and Systems**

## **(CTS 2011)**

**Philadelphia, Pennsylvania, USA  
23 – 27 May 2011**



**IEEE Catalog Number:** CFP1116A-PRT  
**ISBN:** 978-1-61284-638-5

# Table of Contents

Scroll to the title and select a **Blue** link to open a paper. After viewing the paper, use the bookmarks to the left to return to the beginning of the Table of Contents.

---

## CTS 2011 TECHNICAL PAPERS

### *Invited Papers*

<b>Supporting Activity Awareness in Computer-Mediated Collaboration .....</b>	<b>1</b>
<i>John M. Carroll, Hao Jiang, Mary Beth Rosson, Shin-I Shih, Jing Wang, Lu Xiao, and Dejin Zhao</i>	
(The Pennsylvania State University, Pennsylvania, USA)	
<b>Trust Networks: Interpersonal, Sensor, and Social .....</b>	<b>13</b>
<i>Krishnaprasad Thirunarayan and Pramod Anantharam</i>	
(Wright State University, Ohio, USA)	
<b>Developing a Common Analytical Framework for Models, Simulations, and Data .....</b>	<b>22</b>
<i>Nabil R. Adam</i>	
(Science & Technology Directorate, Department of Homeland Security, Washington, DC, USA)	

### *Full Papers*

<b>Mail2Tag: Augmenting Email for Sharing with Implicit Tag-based Categorization .....</b>	<b>23</b>
<i>Les Nelson, Rowan Nairn, Ed H. Chi, Gregorio Convertino</i>	
(Palo Alto Research Center, California, USA)	
<b>Microblogging's Impact on Collaboration Awareness: A Field Study of Microblogging Within and Between Project Teams .....</b>	<b>31</b>
<i>Dejin Zhao, Mary Beth Rosson, Tara Matthews, Thomas Moran</i>	
(The Pennsylvania State University, Pennsylvania; IBM Research – Almaden, California, USA)	
<b>The Climate CoLab: Large Scale Model-based Collaborative Planning .....</b>	<b>40</b>
<i>Joshua Introne, Robert Laubacher, Gary Olson, Thomas Malone</i>	
(Center for Collective Intelligence, Massachusetts Institute of Technology, Massachusetts; University of California at Irvine, California, USA)	
<b>MoSS: Mobile Smart Services for Ubiquitous Network Management .....</b>	<b>48</b>
<i>Sheng-Ying Pao, Alexander J. Reben, and Ammar Rayes</i>	
(Media Lab, Massachusetts Institute of Technology, Massachusetts; Cisco Systems, California, USA)	
<b>Map-like Wikipedia Overview Visualization .....</b>	<b>53</b>
<i>Cheong-Iao Pang, Robert P. Biuk-Aghai</i>	
(University of Macau, Macau)	
<b>The Snoopy Concept: Fighting Heterogeneity in Semistructured and Collaborative Information Systems by using Recommendations .....</b>	<b>61</b>
<i>Wolfgang Gassler, Eva Zangerle, and Günther Specht</i>	
(University of Innsbruck, Austria)	

<b>Group Participation in the Search Process? .....</b>	<b>69</b>
<i>Sandra L. Toze, Lori McCay Peet, and Elaine G. Toms</i>	
(Dalhousie University, Nova Scotia, Canada)	
<b>Towards an Open Collaboration Service Framework .....</b>	<b>77</b>
<i>Sandy Liu, Bruce Spencer, Weichang Du, Chihung Chi</i>	
(National Research Council and University of New Brunswick, New Brunswick, Canada; Tsinghua University, China)	
<b>A Semantic-Aided Designer for Knowledge Discovery .....</b>	<b>86</b>
<i>Claudia Diamantini, Domenico Potena, and Emanuele Storti</i>	
(Università Politecnica delle Marche, Italy)	
<b>System Requirements for Large Scale Community Collaboration .....</b>	<b>94</b>
<i>I.T. Hawryszkiewycz</i>	
(University of Technology - Sydney, New South Wales, Australia)	
<b>Building Voting Tools to Support Group Collaboration .....</b>	<b>100</b>
<i>Kung-E Cheng, Fadi P. Deek</i>	
(New Jersey Institute of Technology, New Jersey, USA)	
<b>MikiWiki: a Meta-design Framework for Collaboration .....</b>	<b>109</b>
<i>Li Zhu, Ivan Rossano Vaghi</i>	
(Università degli Studi di Milano; EarlyMorning, Italy)	
<b>Behind Linus's Law: A Preliminary Analysis of Open Source Software Peer Review Practices in Mozilla and Python .....</b>	<b>117</b>
<i>Jing Wang and John M. Carroll</i>	
(The Pennsylvania State University, Pennsylvania, USA)	
<b>Empirical Study of an Intelligent Argumentation System in MCDM .....</b>	<b>125</b>
<i>Xiaoqing (Frank) Liu, Rubal Wanchoo, and Ravi Santosh Arvapally</i>	
(Missouri University of Science and Technology - Rolla, Missouri, USA)	
<b>On-Demand Provisioning of Cloud and Grid based Infrastructure Services for Collaborative Projects and Groups .....</b>	<b>134</b>
<i>Yuri Demchenko, Jeroen Van der Ham, Volodymyr Yakovenko, Cees de Laat, Mattijs Ghijsen, and Mihai Cristea</i>	
(University of Amsterdam, The Netherlands; Google Inc., USA)	
<b>Opportunities for Proactive Support of Reuse and Organizational Learning in Ad Hoc Collaborative Work Activity: A Field Study of Proposal Writing .....</b>	<b>143</b>
<i>Gregorio Convertino, Victoria Bellotti, Nozomi Ikeya, Oliver Brdiczka, Ayako Hoshino, Motohiko Sakaguchi, Yosuke Motohashi, and Hidekazu Sakagami</i>	
(Palo Alto Research Center, California, USA; NEC Labs, Kawasaki, Japan)	
<b>Measured Characteristics of FutureGrid Clouds for Scalable Collaborative Sensor-Centric Grid Applications .....</b>	<b>151</b>
<i>Geoffrey C. Fox, Alex Ho, and Eddy Chan</i>	
(Indiana University, Indiana; Anabas, Inc., California, USA)	
<b>The MIT Deliberatorium: Enabling Large-Scale Deliberation About Complex Systemic Problems (Invited) .....</b>	<b>161</b>
<i>Mark Klein</i>	
(Massachusetts Institute of Technology, Massachusetts, USA)	

<b>Semantics-based Collaborative Systems: Combining the Advantages of Unstructured and Structure-based Systems (Invited) .....</b>	<b>162</b>
<i>Prasun Dewan</i> (University of North Carolina at Chapel Hill, North Carolina, USA)	
<b>Symposia, Workshops and Special Sessions</b>	
<b>The Intersection between Cognitive Robotics and Human Robot Interaction (Invited) .....</b>	<b>164</b>
<i>J. Gregory Trafton</i> (Intelligent Systems Section, Naval Research Laboratory, Washington, DC, USA)	
<b>User Adaptable Robot Behavior .....</b>	<b>165</b>
<i>Adriana Tapus and Amir Aly</i> (ENSTA - ParisTech, France)	
<b>Task Coordination and Assistive Opportunity Detection via Social Interaction in Collaborative Human-Robot Tasks .....</b>	<b>168</b>
<i>Aaron St. Clair and Maja Matarić</i> (University of Southern California, California, USA)	
<b>Exploring Human-Robot Cooperation Possibilities for Semiconductor Manufacturing .....</b>	<b>173</b>
<i>Astrid Weiss, Roland Buchner, Manfred Tscheligi, and Hanspeter Fischer</i> (University of Salzburg, Austria; Infineon Technologies - Austria AG, Austria)	
<b>Driver Interference and Risk in Semiautonomous Braking Under Uncertainty .....</b>	<b>178</b>
<i>Yajia Zhang and Kris Hauser</i> (Indiana University – Bloomington, Indiana, USA)	
<b>Visual Robot Choreography for Clinicians .....</b>	<b>186</b>
<i>J. Alan Atherton and Michael A. Goodrich</i> (Brigham Young University, Utah, USA)	
<b>Selective Visual Attention Occurred in Change Detection Derived by Animacy of Robot's Appearance .....</b>	<b>190</b>
<i>Jae-eul Bae and Myung-suk Kim</i> (Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea)	
<b>Responses to Robot Social Roles and Social Role Framing .....</b>	<b>194</b>
<i>Victoria Groom, Vasant Srinivasan, Cindy L. Bethel, Robin Murphy, Lorin Dole and Clifford Nass</i> (Stanford University, California; Texas A&M, Texas; Yale University, Connecticut, USA)	
<b>A Deceptive Robot Referee in a Multiplayer Gaming Environment .....</b>	<b>204</b>
<i>Marynel Vázquez, Alexander May, Aaron Steinfield, and Wei-Hsuan Chen</i> (Carnegie Mellon University, Pennsylvania, USA)	
<b>Enabling Humanoid Musical Interaction and Performance .....</b>	<b>212</b>
<i>Youngmoo E. Kim, David K. Grunberg, Alyssa M. Batula, Daniel M. Lofaro, JunHo Oh, Paul Y. Oh</i> (Drexel University, Pennsylvania, USA; Korea Advanced Institute of Science and Technology (KAIST), Korea)	
<b>Iconic Categorization with Knowledge-Based “Icon Systems” Can Improve Collaborative KM .....</b>	<b>216</b>
<i>Xiaoyue Ma, Jean-Pierre Cahier</i> (ICD/Tech-CICO - Université de Technologie de Troyes, France)	

<b>Towards Identifying Sensitive Processes for Knowledge Localization .....</b>	<b>224</b>
<i>Mohamed Turki, Inès Saad, Faiez Gargouri, and Gilles Kassel</i>	
(Laboratoire MIS, Université Picardie Jules Verne, Amiens, France; MIRACL Laboratory, ISIM of Sfax, Tunisia)	
<b>Traceability of Design Project Knowledge Using PLM .....</b>	<b>233</b>
<i>Nada Matta, Guillaume Duceillier, Yannick Charlot, Mohammed Ridha Beldjoudi, François Tribouillois, and Edouard Hibon</i>	
(ICD/Tech-CICO - Université de Technologie de Troyes; PI3C, Parc Technologique du Mont Bernard, Chalons en Champagne, France)	
<b>Modeling of a Pragmalinguistics Analysis of a Discussion Forum .....</b>	<b>241</b>
<i>Goritsa Ninova, Hassan Atifi</i>	
(ICD/Tech-CICO - Université de Technologie de Troyes, France)	
<b>Supporting the Knowledge Sharing Dimension of Social Support: The Case of Aloa-aidants.fr .....</b>	<b>249</b>
<i>Matthieu Tixier, Myriam Lewkowicz</i>	
(ICD/Tech-CICO - Université de Technologie de Troyes, France)	
<b>Exogenous Control of Belief Learning in Social Networks .....</b>	<b>257</b>
<i>Usha Sridhar and Sridhar Mandayam</i>	
(Ecometrix Research, Bangalore, India)	
<b>A New Approach to Generate a Visual Tweet from Text Message .....</b>	<b>265</b>
<i>Hang-Bong Kang, Sang-Hyun Cho, and Il-Whang Byun</i>	
(The Catholic University of Korea, Bucheon Gyonggi-Do, Republic of Korea)	
<b>Secure Data Aggregation and Collaboration in Wireless Sensor Networks (Invited) .....</b>	<b>273</b>
<i>Sanjay Kumar Madria</i>	
(Missouri University of Science and Technology, Missouri, USA)	
<b>Context Modeling in Collaborative Sensor Network Applications .....</b>	<b>274</b>
<i>Mohamed Hefeeda, Turkmen Canli, Ajay Kshemkalyani, and Ashfaq Khokhar</i>	
(University of Illinois at Chicago; Lemko Corporation, Schaumburg, Illinois, USA)	
<b>Toward Securing Sensor Clouds .....</b>	<b>280</b>
<i>Apu Kapadia, Steven Myers, Xiao Feng Wang and Geoffrey Fox</i>	
(Indiana University – Bloomington, Indiana, USA)	
<b>Ultra Low Power Small Size RF Transceiver Design for Wireless Sensor Networks .....</b>	<b>290</b>
<i>Abid Ali Minhas, Muhammad Yasir Faheem, and Muhammad Basit Azeem</i>	
(Bahria University, Islamabad; University of Engineering and Technology, Lahore, Pakistan)	
<b>Modeling of Patient Data Transmission Scheme over MPI Based Cluster .....</b>	<b>296</b>
<i>Syed Misbahuddin, Junaid Ahmed Zubairi, Tauseef Munib, and Hakan Pur</i>	
(Sir Syed University of Engineering and Technology, Pakistan; SUNY at Fredonia, New York, USA)	
<b>Online Code Compression in Wireless Sensor Networks .....</b>	<b>301</b>
<i>Igor Talzi, Christian Tschudin</i>	
(University of Basel, Switzerland)	
<b>KeepInTouch: A Telehealth System to Improve the Follow-up of Chronic Patients .....</b>	<b>311</b>
<i>Gianmarco Angius, Danilo Pani, Luigi Raffo, Paolo Randaccio</i>	
(University of Cagliari, Italy)	

<b>An EHR Interface for Viewing and Accessing Patient Health Events from Collaborative Sources .....</b>	<b>319</b>
<i>Donald Craig</i> (Memorial University of Newfoundland - St. John's, Newfoundland and Labrador, Canada)	
<b>A View of Computer-Supported Collaborative Learning Research Today (Invited) .....</b>	<b>325</b>
<i>Gerry Stahl</i> (Drexel University, Pennsylvania, USA)	
<b>Modeling Collaborative Learning Services - A Case Study .....</b>	<b>326</b>
<i>Surya Bahadur Kathayat and Rolv Bræk</i> (Norwegian University of Science and Technology, Norway)	
<b>Assessing the Performance of e-Facilitators .....</b>	<b>334</b>
<i>Aida Azadegan and Linda Macaulay</i> (University of Manchester, U.K.)	
<b>The DARPA COORDINATORS Program: A Retrospective (Invited) .....</b>	<b>342</b>
<i>Robert Kohout</i> (Defense Advanced Research Projects Agency - DARPA/I2O, Virginia, USA)	
<b>Learning and Coordination: An Overview .....</b>	<b>343</b>
<i>Myriam Abramson and Ranjeev Mittu</i> US Naval Research Laboratory, California, USA	
<b>Comparing Techniques for the Semi-Autonomous Formation of Expert Teams .....</b>	<b>351</b>
<i>Edmund H. Durfee, James C. Boeroel, Jr., and Jason Sleight</i> (University of Michigan – Ann Arbor, Michigan, USA)	
<b>Scalable and Efficient Negotiation Protocol: Decomposing the Contract Space based on Idea of Issue-Grouping .....</b>	<b>359</b>
<i>Katsuhide Fujita, Takayuki Ito, and Mark Klein</i> (Nagoya Institute of Technology Japan; Massachusetts Institute of Technology, Massachusetts, USA)	
<b>Integration of Secure Agents with a Secure Communication Infrastructure for Crisis Management .....</b>	<b>367</b>
<i>Z. Balogh, E. Gatial, L. Hluchý, V. Hudek and M. Konečný</i> (Institute of Informatics, Slovak Academy of Sciences - Bratislava, Slovakia; Ardaco, a.s., Bratislava, Slovakia)	
<b>In Designing an End-User Tailorable Synchronous Groupware .....</b>	<b>373</b>
<i>Angela Hirlehei and Axel Hunger</i> (University of Duisburg-Essen, Germany)	
<b>Interactions in Space Systems Design within a Concurrent Engineering Facility .....</b>	<b>381</b>
<i>A. Braukhane and D. Quantius</i> (German Aerospace Center (DLR), Bremen, Germany)	
<b>Using Touch Gestures to Adjust Context Parameters in Mobile Recommender and Search Applications .....</b>	<b>389</b>
<i>Florian Schulze and Wolfgang Woerndl</i> (Technische Universitaet Muenchen, Germany)	

<b>A Survey of Crowdsourcing as a Means of Collaboration and the Implications of Crowdsourcing for Interaction Design .....</b>	<b>397</b>
<i>Yue Pan and Eli Blevis</i> (Indiana University – Bloomington, Indiana, USA)	
<b>Collaboration in Sustainability Vision .....</b>	<b>404</b>
<i>Samuel Mann and Lesley Smith</i> (Otago Polytechnic, Dunedin, New Zealand)	
<b>International Workshop on Semantic Technologies for Information-Integrated Collaboration (STIIC 2011) .....</b>	<b>413</b>
<i>Elena Simperl, Katharina Siorpaes, Frank Dengler and Tania Tudorache</i> (Karlsruhe Institute of Technology (KIT), Germany; University of Innsbruck, Austria; Stanford University, California, USA)	
<b>Executable Behavior Delegation in Web Services and Ontology Exchange Systems .....</b>	<b>415</b>
<i>Igor Toujilov and Paul Taylor</i> (University College London, England)	
<b>Semantic Infrastructure to Enable Collaboration in Ontology Development .....</b>	<b>423</b>
<i>Paul R. Alexander, Csongor Nyulas, Tania Tudorache, Patricia L. Whetzel, Natalya F. Noy, and Mark A. Musen</i> (Stanford University, California, USA)	
<b>Detecting Abnormal Data for Ontology Based Information Integration .....</b>	<b>431</b>
<i>Yang Yu and Jeff Heflin</i> (Lehigh University, Pennsylvania, USA)	
<b>Semantics Standardization for Financial Industry Integration .....</b>	<b>439</b>
<i>Mike Bennett</i> (Enterprise Data Management Council, Inc., U.K.)	
<b>Secured Histories for Presence Systems .....</b>	<b>446</b>
<i>Eleanor Rieffel, Jacob Biehl, Bill van Melle and Adam J. Lee</i> (FX Palo Alto Laboratory, California; University of Pittsburgh, Pennsylvania, USA)	
<b>A Fair Multi-Party Non-Repudiation Scheme for Storage Clouds .....</b>	<b>457</b>
<i>Jun Feng, Yu Chen, and Douglas H. Summerville</i> (State University of New York - Binghamton, New York, USA)	
<b>Access Control Infrastructure for On-Demand Provisioned Virtualised Infrastructure Services .....</b>	<b>466</b>
<i>Yuri Demchenko, Canh Ngo and Cees de Laat</i> (University of Amsterdam, The Netherlands)	
<b>A Breakthrough for Prepaid Payment: End to End Token Exchange and Management Using Secure SSL Channels Created by EAP-TLS Smart Cards .....</b>	<b>476</b>
<i>Pascal Urien, Marc Pasquet, and Christophe Kiennert</i> (Telecom ParisTech; GREYC CNRS UMR 6072 Laboratory, Higher Education National Engineering School of Caen; EtherTrust, Paris, France)	
<b>Integration of New Electronic Payment Systems into B2C Internet Commerce .....</b>	<b>484</b>
<i>Refka Abdellaoui, Marc Pasquet, and Olivier Berthelier</i> (Laboratoire GREYC, ENSICAEN – University of Caen - CNRS; Limonetik, Paris, France)	

<b>Agents for Enriched Services (AES): A Generic Agent - Based Adaptation Framework .....</b>	<b>492</b>
<i>Luis Guillermo Torres-Ribero, Juan Pablo Garzón, María Paula Arias-Báez, Angela Carrillo-Ramos, and Enrique González (Cra. 7 No. 40-62, Bogotá, Colombia)</i>	
<b>Enabling Dynamic Roles for Agents .....</b>	<b>500</b>
<i>Luca Ferrari, Haibin Zhu (Independent Consultant, Italy; Nipissing University, Ontario, Canada)</i>	
<b>Towards a Taxonomy of Adaptive Agent-based Collaboration Patterns for Autonomic Service Ensembles .....</b>	<b>508</b>
<i>Giacomo Cabri, Mariachiara Puviani, and Franco Zambonelli (University of Modena and Reggio Emilia, Italy)</i>	
<b>Group Role Assignment with Conflicting Agent Constraints .....</b>	<b>516</b>
<i>Haibin Zhu (Nipissing University, Ontario, Canada)</i>	
<b>Establishing Requirements of Ubiquitous Services for Extreme Multisport Competitions .....</b>	<b>524</b>
<i>Steinar Kristoffersen (Østfold University College, Halden, Norway)</i>	
<b>Optimal Rate Allocation in Peer-to-Peer Streaming over Wireless Networks .....</b>	<b>532</b>
<i>Fan Qiu, Jia Bai, Yi Cui and Yuan Xue (Vanderbilt University, Tennessee, USA)</i>	
<b>Flash-Based Logging for Database Updates .....</b>	<b>540</b>
<i>Amol Khedkar and Vijay Kumar (University of Missouri - Kansas City, Missouri, USA)</i>	
<b>Tailoring Group Membership Consistency for Mobile Networks .....</b>	<b>548</b>
<i>Sebastian Gutierrez-Nolasco, Nalini Venkatasubramanian, Carolyn Talcott, and Mark-Oliver Stehr (University of California – Irvine; SRI International, California, USA)</i>	
<b>ROMAN: Routing and Opportunistic Management of Airborne Networks .....</b>	<b>555</b>
<i>Hemanth Meka, Lekshmi Manian Chidambaram, Sanjay K. Madria, Mark Linderman, Mohan Kumar, and Sharma Chakravarthy (Missouri University of Science and Technology - Rolla, Missouri; Air Force Research Laboratory - Rome, New York; University of Texas-Arlington, Texas, USA)</i>	
 <b>Poster Papers</b>	
<b>Layered Interactive Visual Interface Design: A Visual Interface for the Navigation and Analysis of Digital Text Communications .....</b>	<b>563</b>
<i>Erica Edelman, John McIntire (Wright State University; Air Force Research Laboratory, Ohio, USA)</i>	
<b>Integrating Online and Offline Community through Facebook .....</b>	<b>569</b>
<i>Shaoke Zhang, Hao Jiang, and John M. Carroll (The Pennsylvania State University, Pennsylvania, USA)</i>	

<b>Dependency Based Collaboration: Ontology Based Information Management .....</b>	<b>579</b>
<i>Brian Drabble</i>	
(On Target Technologies, Inc., Virginia, USA)	
<b>Cultural Aspects in Groupware Application as an Intercultural Collaboration Technology .....</b>	<b>587</b>
<i>Rein Suadamar, Stefan Werner, and Axel Hunger</i>	
(University of Duisburg-Essen, Duisburg, Germany)	
<b>Development of Visualizations for Social Network Analysis of Chatroom Text .....</b>	<b>593</b>
<i>John McIntire, O. Isaac Osesina, and Michael Craft</i>	
(Air Force Research Laboratory, Ohio; University of Arkansas at Little Rock, Arkansas; Middletown High School –Middletown, Ohio, USA)	
<b>Use of Multi-Context Systems for Crossing Boundaries .....</b>	<b>598</b>
<i>Hilda Tellioglu</i>	
(Vienna University of Technology, Austria)	
<b>Change Management: Developing a Tool to Foster Adaptive Collaboration .....</b>	<b>606</b>
<i>Anne Offner, Stephanie Swindler, Greg Padula, Arlene King, Joseph Fedora, and LaToya Malone</i>	
(Offner and Associates, LLC, Missouri; Air Force Research Laboratory, Ohio; C5T Corporation, Illinois, USA)	
<b>Green Daily Guide: Easier Environmentally Friendly Transportation with the Help of Mobile Technologies .....</b>	<b>612</b>
<i>Andrey Bliznyuk</i>	
(Østfold University College, Halden, Norway)	
<b>Collaborative Systems for NASA Science, Engineering, and Mission Operations .....</b>	<b>618</b>
<i>Richard M. Keller, William J. Clancey, Matthew C. Deans, Joan C. Differding, K. Estelle Dodson, Francis Y. Enomoto, Jay P. Trimble, and Michael H. Sims</i>	
(NASA Ames Research Center, California, USA)	
 <b>Doctoral Dissertation Colloquium Abstracts</b>	
<b>Ethical Concerns of Twitter Use for Collective Crisis Response .....</b>	<b>625</b>
<i>Thomas Heverin</i>	
<i>Advisor: Lisl Zach</i>	
(College of Information Science & Technology, Drexel University, Pennsylvania, USA)	
<b>Deconstructing Information Flow in Student Groups .....</b>	<b>627</b>
<i>Sandra Toze</i>	
<i>Advisor: Elaine Toms</i>	
(iLab, Faculty of Management, Dalhousie University - Halifax, Nova Scotia, Canada)	
<b>Interpersonal Boundary Regulation within Online Social Networks .....</b>	<b>630</b>
<i>Pamela Wisniewski</i>	
<i>Advisors: Heather Richter-Lipford and David C. Wilson</i>	
(University of North Carolina at Charlotte, North Carolina, USA)	

## *Posters Abstracts*

<b>A Business Process Design Framework for B2B Collaboration .....</b>	<b>633</b>
<i>Lorenzo Boaro, Emanuele Glorio, Francesco Pagliaretti and Luca Spalazzi</i> (DIIGA, Università Politecnica delle Marche, Italy)	
<b>Constraints or Consequences in the U.S. Electricity Smart Grid .....</b>	<b>636</b>
<i>John C. Hoag, Stanley A. Klein, and Burzin Kahjotia</i> (Ohio University, Ohio; Open Secure Energy Control Systems, LLC; KPMG, Ohio, USA)	
<b>Man and Machine: A Collaborative Approach to Digital Collection Evaluation .....</b>	<b>638</b>
<i>Catherine Hall and Mi Zhang</i> (Drexel University, Pennsylvania, USA)	
<b>Healthcare Information Behavior: Implicit Collaboration with Social Tagging Systems .....</b>	<b>639</b>
<i>Michael A. Zarro</i> (Drexel University, Pennsylvania, USA)	
<b>Use of Sensor-Based Feedback Technology in Reducing Home Energy Consumption .....</b>	<b>640</b>
<i>Annika Matta, Aurélia Heitz, and Banny Banerjee</i> (Stanford University, California, USA)	
<b>Educational System for Diabetic Children .....</b>	<b>641</b>
<i>Sofia Tretyakova</i> (Østfold University College, Halden, Norway)	
<b>Drupal: Collaborative Framework in Science Research .....</b>	<b>643</b>
<i>Ranjeet Devarakonda and Harold Shanafield</i> (Oak Ridge National Laboratory, Tennessee, USA)	
<b>Green Box: An Innovative Approach of e-Grocery with Shared Reception Box .....</b>	<b>644</b>
<i>Manish Shrestha and Satya Ram Twanabasu</i> (Østfold University College, Halden, Norway)	
<b>Universal Devices for Public Transport .....</b>	<b>646</b>
<i>Lada Rodzina and Olga Ionova</i> (Østfold University College, Halden, Norway)	
<b>Real-Time Carpooling System .....</b>	<b>648</b>
<i>N.V. Pukhovskiy, R.E. Lepshokov</i> (Østfold University College, Halden, Norway)	

## *Late Arriving*

<b>Expert Opinions in Cancer Metastasis: Harvesting Knowledge from Uncertainty and Discrepancies (Invited) .....</b>	<b>650</b>
<i>Anna Divoli</i> (The University of Chicago, Illinois, USA)	