ICSC 2016 Detailed Program

February 3 (Wednesday)	
7:30-17:00	Registration
7:30-8:30	Breakfast
8:30-8:50	Welcome from Conference Chair
8:50-10:00	**Keynote (1):** Dr. Carlo Zaniolo Room: Crystal II Session Chair:
10:00-10:20	Coffee Break
10:20-11:30	**Keynote (2):** Dr. Stefan Rüger Room: Crystal II Session Chair:
11:30-12:40	**Lunch** (on your own)
12:40-14:40	**Session 1**
Parallel Session 1	**ICSC (1): Semantics Mining, Learning, and Applications**
Room	Crystal III
Session Chair	Tom De Nies
Full paper (25 minutes)	Lubomir Stanchev Semantic Document Clustering Using a Similarity Graph
Full paper (25 minutes)	Zoe Lacroix and Ruben Acuna Extracting Semantics from Legacy Scientific Workflows
Full paper (25 minutes)	M. Fatih Demirci and Serdar Kacka Object Recognition by Distortion-free Graph Embedding and Random Forest
Full paper (25 minutes)	Sumit Purohit, William Smith, Alan Chappell, Patrick West, Benno Lee, Eric Stephan and Peter Fox Effective Tooling for Linked Data Publishing in Scientific Research

Parallel Session 1	ICSC (2): Semantic Multimedia
Room	Platinum Room
Session Chair	Gao Yue
Full paper (25 minutes)	Yue Gao and Kazuki Katagishi Improved Spatial Pyramid Matching for Sports Image Classification
Full paper (25 minutes)	Sven Helmer and Fabio Persia High-level Surveillance Event Detection Using an Interval-based Query Language
Full paper (25 minutes)	Florian Thalmann, Alfonso Perez Carrillo, György Fazekas, Geraint Wiggins and Mark Sandler The Mobile Audio Ontology: Experiencing Dynamic Music Objects on Mobile Devices
Full paper (25 minutes)	Yilin Yan, Mei-Ling Shyu and Qiusha Zhu Negative Correlation Discovery for Big Multimedia Data Semantic Concept Mining and Retrieval
Parallel Session 1	ICSC (3): Semantic-based Analysis for Web Applications
Room	Garnet Gallery
Session Chair	Mehdi Allahyari
Full Paper (25 minutes)	Mehdi Allahyari and Krys Kochut Semantic Tagging Using Topic Models exploiting Wikipedia Category Network
Full Paper (25 minutes)	Alan Freihof Tygel, Sören Auer, Jeremy Debattista, Fabrizio Orlandi and Maria Luiza Machado Campos Towards Cleaning-up Open Data Portals: A Metadata Reconciliation Approach
Full paper (25 minutes)	Michael Bloodgood and Benjamin Strauss Data Cleaning for XML Electronic Dictionaries via Statistical Anomaly Detection
Short Paper (15 minutes)	Hazem Abdelaal, Normunds Gruzitis, Ramona Enache and Brian Davis Extracting Semantic Knowledge from Unstructured Text using Embedded Controlled Language
14:40-15:00	Coffee Break

15:00-17:00	**Session 2**
Parallel Session 2	**ICSC (4): Semantics Mining, Learning, and Applications**
Room	Crystal III
Session Chair	Moloud Shahbazi
Short paper (15 minutes)	Amarnath Palavalli, Durgaprasad Karri and Swarnalatha Pasupuleti Semantic Internet of Things
Short paper (15 minutes)	Arianna Pipitone, Francesca Anastasio and Roberto Pirrone An Innovative Statistical Tool for Automatic OWL-ERD Alignment
Short paper (15 minutes)	Mattia Setzu and Maurizio Atzori SPARQL Queries over Source Code
Short paper (15 minutes)	Wirawit Chaochaisit, Masahiro Bessho, Noboru Koshizuka and Ken Sakamura Human Localization Sensor Ontology - Enabling OWL 2 DL-based Search for User's Location-Aware Sensors in the IoT
Short paper (15 minutes)	Mohammad Farazi, Craig Chapman, Pathmeswaran Raju and Lynsey Melville WordNet Powered Faceted Semantic Search With Automatic Sense Disambiguation For Bioenergy Domain
Parallel Session 2	**ICSC (5): Semantics Integration and Analysis**
Room	PlatinuCoom
Session Chair	Sumit Purohit
Full paper (25 minutes)	Thomas Hartmann, Benjamin Zapilko, Joachim Wackerow and Kai Eckert Validating RDF Data Quality using Constraints to Direct the Development of Constraint Languages
Full paper (25 minutes)	Jeremy Debattista, Sören Auer and Christoph Lange Luzzu - A Framework for Linked Data Quality Assessment
Full paper (25 minutes)	Niklas Petersen, Irlan Grangel, Gökhan Coskun, Sören Auer, Marvin Frommhold, Sebastian Tramp, Maxime Lefrançois and Antoine Zimmermann SCORVoc: Vocabulary-based Information Integration and Exchange in Supply Networks

Full paper (25 minutes)	Shuai Zhang, I-Ling Yen and Farokh B. Bastani Toward Semantic Enhancement of Monitoring Data Repository
Parallel Session 2	**ICSC (6): Semantic-based Analysis for Web Applications**
Room	Garnet Gallery
Session Chair	Anantharaman Narayana
Full paper (25 minutes)	Kapil Kumar, Vinod Keshav and Amit Singhai An enhanced context aware add-on framework for chromium based web browser for Android OS
Full paper (25 minutes)	Babar Shah, Farkhund Iqbal and Asad Khattak Fuzzy Query Routing in Unstructured Mobile Peer-to-Peer Networks
Short paper (15 minutes)	Abdolreza Hajmoosaei and Petra Skoric Musuem Ontology-Based MetaData
Short paper (15 minutes)	Jonathan Bassi and Sukanya Manna Construction of a Geo-Location Service Utilizing Microblogging Platforms
17:00-18:20	**Session 3** Poster Session Room: Crystal II Amarnath Palaval li, Durgaprasad Karri and Swarnalatha Pasupuleti xDaaS: Any Data as a Service Behnam Ojaghi Kahjogh, Jeyhun Karimov an d Erdogan Dogdu EDL: Framework for Entity disambiguation and Linking to knowledge bases Mal likarjuna Rao Gundavarapu, Mal likarjuna Rao Ch and Anuradha Bai K GPGPU BASED REAL TIME VIDEO TRACKING SYSTEM Bhargav H S, Gangadhar Akalwad i, Kishan K and Kavi Mahesh Curating A Semantic Bibliographic Catalog Muntazir Mehdi, Yasar Khan, Andre Freit as, Joao Bosco Jares Alves Chaves, Saleem Raza, Panagiotis Hasap is and Ratnesh Sahay Demonstrating A Linked Data Visualiser for Finite Element Biosimulations Daniele Stefano Ferru and Maurizio Atzori Write-Once Run-Anywhere Custom SPARQL Functions Mehmet Mert Yücesan and Erdogan Dogdu

	Sumit Purohit, Patrick Paulson and Luke Rodriguez User-Centric Approach for Benchmark RDF Data Generator in Big Data Performance Analysis Seungho Chae, Yoonsik Yang, Junghyun Byun and Tack-Don Han Personal Smart Space: IoT based User recognition and Device control
18:20 – 20:20	Reception Room: Garnet Gallery
February 4 (Thursday)	
7:30-17:00	Registration
7:30-8:30	Breakfast
8:30-9:40	**Keynote (3):** Mr. Atsushi Kitazawa Room: Crystal II Session Chair:
9:40-10:00	Coffee Break
10:00-11:00	**Panel I** Semantic Computing for Education and Society Farokh Bastani UT Dallas Guy Djoken UNESCO Phillip Sheu UCI Room: Crystal II Session Chair:
11:00-12:00	**Session 4**
Parallel Session 4	**Tutorial and Workshop** on Semantic Computing with Big Data Room: Crystal III Session Chair:
Parallel Session 4	**Special Session**
Room	Platinum Room
Session Chair	

(15 minutes)	Gökhan Coskun TurtleEditor: A lightweight web-editor for collaborative ontology development
(15 minutes)	Jessica Rubart Semantic Adaptation of Business Information Systems using Human-Centered Business Rule Engines
(15 minutes)	Luisa Brinkschulte, Jonas Rebstadt, Arkadij Enders and Robert Mertens Aspect-Oriented Mind Mapping and its Potential for Ontology Editing
(15 minutes)	Martin Pelke, Sebastian Pospiech and Sven Pfennig Semi-Automated Ontology Creation for Semantic Searching in Business Process Exploration
12:00-13:10	**Lunch** (on your own)
13:10-15:10	**Session 5**
Parallel Session 5	**ICSC (7): Semantics Mining, Learning, and Applications**
Room	Crystal III
Session Chair	Amarnath Palavalli
Full paper (25 minutes)	Hongkun Li, Dale Seed, Bob Flynn, Catalina Mladin and Rocco Di Girolamo Enabling Semantics in an M2M/IoT Service Delivery Platform
Full paper (25 minutes)	Steffen Huber, Ronny Seiger, André Kühnert and Thomas Schlegel Using Semantic Queries to Enable Dynamic Service Invocation for Processes in the Internet of Things
Full paper (25 minutes)	Nophadol Jekjantuk and Jeff Z. Pan Towards A Meta-reasoning Framework for Reasoning about Vagueness in OWL Ontologies
Full paper (25 minutes)	Irlan Grangel, Lavdim Halilaj, Gökhan Coskun, Sören Auer and Diego Collarana Towards a Semantic Administrative Shell for Industry 4.0 Components
Parallel Session 5	**ICSC (8): Semantics Integration and Analysis**
Room	Platinum Room

Session Chair	Maurizio Atzori
Short paper (15 minutes)	Jaudete Daltio and Claudia Medeiros A View Handler for Semantic Graphs
Short paper (15 minutes)	Mikhail Galkin, Sören Auer, Haklae Kim and Simon Scerri Integration Strategies for Enterprise Knowledge Graphs
Short paper (15 minutes)	Marcin Paprzycki, Pawel Szmeja, Maria Ganzha and Wiesław Pawłowski Dimensions of ontological similarity
Short paper (15 minutes)	Ligaj Pradhan, Chengcui Zhang and Pradip Chitrakar Multi-View Clustering in Collaborative Filtering based Rating Prediction
Short paper (15 minutes)	Tom De Nies, Christian Beecks, Fréderic Godin, Wesley De Neve, Grzegorz Stepien, Dörthe Arndt, Laurens De Vocht, Ruben Verborgh, Thomas Seidl, Erik Mannens and Rik Van de Walle A Distance-based Approach for Semantic Dissimilarity in Knowledge Graphs
Parallel Session 5	**ICSC (9): Semantics Mining, Learning, and Applications**
Room	Garnet Gallery
Session Chair	Steven Werner
Short paper (15 minutes)	Grischan Engel, Thomas Greiner and Sascha Seifert Two-Stage Orchestration Approach for Plug and Produce Based on Semantic Behavior Models
Short paper (15 minutes)	Yuki Sawa, Hiten Bhakta, Ian Harris and Christopher Hadnagy Detection of Social Engineering Attacks Through Natural Language Processing of Conversations
Short paper (15 minutes)	Carmelo Spiccia, Agnese Augello, Giovanni Pilato and Giorgio Vassallo Semantic Word Error Rate For Sentence Similarity
Short paper (15 minutes)	Junya Nakanishi, Yoshihiro Sakatani, Masataka Okubo, Shohei Fujii, Kohei Matsuo, Takuya Yamada and Tadashi Nakano Sense of Self-agency in Sharing Conversational Experiences Between Agents and Human Users
Short paper (15 minutes)	S. Matthew English An Extensible Schema for Building Large Weakly-Labeled Semantic Corpora
Short paper (15 minutes)	Yolanda Gil and Varun Ratnakar

	Dynamically Generated Metadata and Replanning by Interleaving Workflow Generation and Execution
15:10-15:30	Coffee Break
15:30-17:30	**Session 6**
Parallel Session 6	**ICSC (10): Semantics Mining, Learning, and Applications**
Room	Crystal III
Session Chair	Srividya Bansal(tentative)
Full paper (25 minutes)	Saud Alashri, Jiun-Yi Tsai, Sultan Alzahrani, Steven R. Corman and Hasan Davulcu "Climate Change" Frames Detection and Categorization Based on Generalized Concepts
Full paper (25 minutes)	Lavdim Halilaj, Irlán Grangel-González, Gökhan Coskun and Sören Auer Git4Voc: Git-based Versioning for Collaborative Vocabulary Development
Full paper (25 minutes)	Anantharaman Narayana Iyer A Factorized Recurrent Neural Network based architecture for medium to large vocabulary Language Modelling
Full paper (25 minutes)	Moloud Shahbazi, Joseph R. Barr, Vagelis Hristidis and Nani Narayanan Srinivasan Estimation of the Investability of Real Estate Properties Through Text Analysis
Parallel Session 6	**ICSC (11): Semantic Healthcare and Biomedical Big Data**
Room	Platinum Room
Session Chair	Maurizio Atzori(tentative)
Full paper (25 minutes)	Muntazir Mehdi, Yasar Khan, Andre Freitas, Joao Bosco Jares Alves Chaves, Saleem Raza, Panagiotis Hasapis and Ratnesh Sahay A Linked Data Visualiser for Finite Element Biosimulations
Full paper (25 minutes)	David Rhee and Aaron Golden Understanding the Systems Biology of Pathogen Virulence Using Semantic Methodologies
Short paper (15 minutes)	Clare Grasso, Anupam Joshi and Eliot Siegel Visualization of Pain Severity Events in Clinical Records using Semantic Structures

Short paper (15 minutes)	Daniela D'Auria, Fabio Persia and Bruno Siciliano Human-Computer Interaction in Healthcare: How to Support Patients during their Wrist Rehabilitation
Parallel Session 6	**ICSC (12): Semantics Integration and Analysis**
Room	Garnet Gallery
Session Chair	Anantharaman Narayana(tentative)
Short paper (15 minutes)	Hiroshi Yamaguchi, Shigeo Tsujii, Hiroyuki Okazaki and Yasunari Shidama Privacy Preserving Logic Formula Calculation in Cloud
Short paper (15 minutes)	Tadashi Nakano, Tatsuya Suda, Yutaka Okaie and Michael Moore Analysis of Cyber Aggression and Cyber-bullying in Social Networking
Short paper (15 minutes)	Maryam Al-Shehhi, Benjamin Hirsch, Kamal Taha, Marcello Leida and Paul Yoo A knowledge Base Visual Analytics Technique for Semantic Web
Short paper (15 minutes)	Mohammed Abdelrahim, Carlos Merlos and Taehyung Wang Hybrid Machine Learning Approaches - A Method to Improve Expected Output of Semi-structured Sequential Data
Short paper (15 minutes)	Ahsan Ijaz and Jonguen Choi Tracking heteroscedastic progression of opinions with an aggregation bias correction model
17:30-18:30	**TCSEM (IEEE Technical Committee on Semantic Computing) and TCMC (IEEE Technical Committee on Multimedia Computing) Join Meeting** (Welcome to all attendees) Room:
19:15-21:30	**Keynote (4):** Dr. Nestor Rychtyckyj **Banquet** Room: Garnet Gallery
	February 5 (Friday)
7:30-17:00	Registration
7:30-8:30	Breakfast

8:30-9:30	**Panel II** Semantic Computing for Industry Applications Nester Rychtyckyj Ford Motors Company Lynn Wilcox FXPAL Luigi Paraboschi Expert System Pete Rivett Adaptive Room: Crystal II Session Chair:
9:30-9:50	Coffee Break
9:50-11:50	**Special Plenary Session(Session 7)** Challenges and Opportunities in Healthcare and Biomedical Big Data Room: Crystal II Session Chair:
11:50-13:00	**Lunch** (on your own)
13:00-15:00	**Session 8**
Parallel Session 8	**ICSC (13): Semantics Mining, Learning, and Applications**
Room	Crystal III
Session Chair	Srividya Bansal
Short paper (15 minutes)	Pierfrancesco Bellini, Paolo Nesi and Imad Zaza RAISO: RAilway Infrastructures and Signaling Ontology for Configuration Management(or Validation and Verification)
Short paper (15 minutes)	Srividya Bansal and Odesma Dalrymple IMOD-Ont: Towards an Ontology for Instructional Module Design
Short paper (15 minutes)	Yoonsik Yang, Jinwook Shim, Seungho Chae, Jiyoon Jo and Tack-Don Han Mobile Augmented Reality Authoring Tool
Short paper (15 minutes)	Pirjo Elbrecht and Knut-Joosep Palm Information Processing For Mass-Customized Clothing Production
Short paper (15 minutes)	Qifeng Zhou A Data Mining Framework for Tea Price Evaluation

Parallel Session 8	ICSC (14): Semantic-based Analysis for Web Applications
Room	Platinum Room
Session Chair	Tom De Nies
Short paper (15 minutes)	Peng Yan, Wei Jin and Kishlay Jha Discovering Semantic Relationships between Concepts from MEDLINE
Short paper (15 minutes)	Chantal Fry and Sukanya Manna Can we Group Similar Amazon Reviews: A Case Study with Different Clustering Algorithm
Short paper (15 minutes)	Sailesh Kumar Sathish, Anish Anil Patankar and Nirmesh Neema Semantics-Based Browsing using Latent Topic Warped Indexes
Short paper (15 minutes)	David Ostrowski, Nestor Rychtyckyj, Perry MacNeille and Mira Kim Integration of Big Data Using Semantic Web Technologies
Parallel Session 8	**ICSC (15): Semantics Integration and Analysis**
Room	Garnet Gallery
Session Chair	Steven Werner
Short paper (15 minutes)	Kuldeep Singh, Andreas Both, Dennis Diefenbach and Saeedeh Shekarpour Towards a Message-Driven Vocabulary for Promoting the Interoperability of Question Answering Systems
Short paper (15 minutes)	Mithun Balakrishna, Steven Werner, Marta Tatu, Tatiana Erekhinskaya and Dan Moldovan K-Extractor: Automatic Knowledge Extraction for Hybrid Question Answering
Short paper (15 minutes)	Nitin Sharma and Anupam Joshi Representing Attribute Based Access Control Policies in OWL
Short paper (15 minutes)	Marta Tatu, Mithun Balakrishna, Steven Werner, Tatiana Erekhinskaya and Dan Moldovan Automatic Extraction of Actionable Knowledge

Short paper (15 minutes)	Hu Shangfeng and Rajaraman Kanagasabai Learning Commonsense Knowledge Models for Semantic Analytics
15:00-15:20	Coffee Break
15:20-18:20	**Session 9**
Parallel Session 9	**The First International Workshop on Semantic Computing and Knowledge Creation based on Needs Engineering**
Room	Crystal III
Session Chair	Daniela D'Auria
(20 minutes)	Fuad Gattaz Sobrinho, Cristiane Chaves Gattaz, Caio Márcio Gon?alves and André Munhoz Argollo Ferr?o A Needs Engineering Methodology for Identification and Modeling Process Semantics for Cooperation Networks
(20 minutes)	Fuad Gattaz Sobrinho, Cristiane Chaves Gattaz, Oscar Ivan Palma Pacheco and Quym? da Silva V. Viana A Value Semantics Framework for Business Process Network Management
(20 minutes)	Cristiane Chaves Gattaz, Paulo Estev?o Cruvinel and Roberto Carlos Bernardes Leveraging Digital Knowledge Ecosystem Framework Implementation - Case Study: Aligning Knowledge Management and Innovation Goals for Agricultural Aerial Pest Control
(20 minutes)	Paulo Estev?o Cruvinel, Luciano V. Koenigkan and Mauricio F.L. Pereira Visualizing Thermal Information and Knowledge Creation in Grain Storage Bin based on Three-Dimensional (3D) Interface Model and Computer Graphic Techniques
(20 minutes)	Gabriel Marcelino Alves and Paulo Estev?o Cruvinel A Big Data Environment for Agricultural Soil Analysis from CT Images
(20 minutes)	Elmer A. Gamboa Pe?aloza, Heitor V. Mercaldi and Vilma A. Oliveira and Paulo Estev?o Cruvinel An Advanced Model Based on Analytical and Computational Procedures for the Evaluation of Spraying Processes in Agriculture
(20 minutes)	Pratap Chillakanti and Cristiane Chaves Gattaz A SaaS Framework for Transdisciplinary Collaboration

Parallel Session 9	The Fifth International Workshop on Semantic Multimedia
Room	Platinum Room
Session Chair	Mei-Ling Shyu
(20 minutes)	Pedro Jose Dos Reis Mota, Maxine Eskenazi and Luisa Coheur Multi-Document Topic Segmentation using Bayesian Estimation
(20 minutes)	Saurav Karmakar, Soumyabrata Dey and Saswata Sahoo Towards Semantic Image Search
(20 minutes)	Flora Amato, Vincenzo Moscato, Antonio Picariello and Giancarlo Sperlì Multimedia Social Network modeling: a proposal
(20 minutes)	Omar Gustavo Bravo-Quezada, Diego A. Pesántez ?auta, Yolanda Blanco-Fernandez and Martin Lopez-Nores Building Context-aware Customized Stories Based on Uncovering Indirect Associations from Semantic Knowledge Bases
(20 minutes)	Saurav Karmakar, Soumyabrata Dey and Saswata Sahoo Towards Semantic Image Search
Parallel Session 9	**The Fourth International Workshop on Semantic Computing for Social Networks**
Room	Garnet Gallery
Session Chair	Srividya Bansal(tentative)
(20 minutes)	Angelo Chianese, Fiammetta Marulli and Francesco Piccialli Cultural Heritage and Social Pulse: A semantic approach for CH Sensitivity Discovery in social media data
(20 minutes)	Naohiro Matsumura, Asako Miura, Masashi Komori and Kai Hiraishi Media and Sentiments in the Great East Japan Earthquake Related Tweets -- Social Media as ``Meta Media''--
(20 minutes)	Sercan Külcü and Erdo?an Do?du A Scalable Approach for Sentiment Analysis of Turkish Tweets and Linking Tweets To News
(20 minutes)	Arianna Pipitone, Francesca Anastasio and Roberto Pirrone HOWERD: a Hidden Markov Model for Automatic OWL - ERD Alignment