

ICSC 2014 Detailed Program

- In each conference room, a projector (but no PCs) is provided.

June 16 (Monday)	
7:30 – 17:00	Registration Room: PATIO ROOM (OUTSIDE)
7:30 – 8:30	Breakfast Room: PATIO ROOM (OUTSIDE)
8:10 – 8:30	Welcome from Conference Chair Room: PATIO ROOM
8:30 – 9:40	Keynote (1): Dr. Stephen Levinson, University of Illinois at Urbana-Champaign Title: The Roles of Reductionism, Emergence and Functional Equivalence in Semantic Computing Room: PATIO ROOM Chair: Mei-Ling Shyu
9:40 – 10:00	Coffee Break: PATIO ROOM (OUTSIDE)
10:00 – 11:10	Keynote (2): Dr. Michael Uschold, Semantic Arts Title: Ontology and Taxonomy: Strange Bedfellows Room: PATIO ROOM Chair: Giovanni Pilato
11:10 – 11:40	Plenary (1): Knowledge Graph Dr. Giovanni Tummarello, SindiceTech Title: Enterprise "Knowledge Graphs": When "Web of Data" Technologies Make a Lot of Sense in Business Scenarios Room: PATIO ROOM Chair: Nadine Steinmetz
11:40 – 13:00	Lunch (on your own)
13:00 – 15:00	Session 1
Parallel Session 1	ICSC (1): Semantic Multimedia
Room	PATIO ROOM
Session Chair	Ansgar Scherp
	Frank Nack, Ansgar Scherp and Chantal Neuhaus Semiotic Tagging: Enriching the Semantics of Tags for Improved Image Retrieval
	Michele Ruta, Floriano Scioscia, Maria Di Summa, Saverio Ieva, Eugenio Di Sciascio and Marco Sacco

	Semantic Matchmaking for Kinect-based Posture and Gesture Recognition
	Wei Chen Parameterized Spatial SQL Translation for Geographic Question Answering
	Tao Meng, Yang Liu, Mei-Ling Shyu, Yilin Yan and Chi-Min Shu. Enhancing Multimedia Semantic Concept Mining and Retrieval by Incorporating Negative Correlations
Parallel Session 1	ICSC (2): Semantics Mining, Learning, and Applications (I)
Room	GARDEN ROOM III
Session Chair	Hamid Mousavi
	Pavlos Fafalios and Yannis Tzitzikas Post-Analysis of Keyword-based Search Results using Entity Mining, Linked Data and Link Analysis at Query Time
	Thiago Nunes and Daniel Schwabe Building Distant Supervised Relation Extractors
	Vassilis Polychronopoulos, Nick Pendar and Shawn Jeffery QuJET: A Text Classification Technique using Automatically Generated Span Queries
	Kazuhiro Tashiro, Takahiro Kawamura, Yuichi Sei, Hiroyuki Nakagawa, Yasuyuki Tahara and Akihiko Ohsuga Refinement of Ontology-constrained Human Pose Classification
Parallel Session 1	Industry Session
Room	PACIFIC ROOM
Session Chair	Takafumi Nakanishi
	Takafumi Nakanishi Semantic Context-dependent Weighting for Vector Space Model
	David Ostrowski Feature Selection for Twitter Classification
	Mehdi Allahyari, Krys J Kochut and Maciej Janik Ontology-based Text Classification into Dynamically Defined Topics
	Takeshi Takahashi and Youki Kadobayashi A Mechanism for Linking and Discovering Structured Cybersecurity Information over Networks
15:00 – 15:20	Coffee Break: PATIO ROOM (OUTSIDE)

15:20 – 16:50	Session 2: Poster Session & Demo Session
Room	PATIO ROOM
Session Chair	Anne Hunt
	<p style="text-align: center;"><u>Poster Session</u></p> <p>Ivana Donevska Advancing the Semantic Relatedness Approach by Using Sense Popularity</p> <p>Dongfeng Cai, Na Ye, Yan Song and Guiping Zhang A Statistical Semantic Analysis Approach for Chinese Terms</p> <p>David Khanaferov, Christopher Luc and Taehyung Wang Social Network Data Mining Using Natural Language Processing and Density Based Clustering</p> <p>Robert Techentin, Daniel Foti, Peter Li, Erik Daniel, Barry Gilbert, David Holmes and Sinan Al-Saffar Development of a Semi-Synthetic Dataset as a Testbed for Big-Data Semantic Analytics</p> <p style="text-align: center;"><u>Demo Session</u></p> <p>D. Schneider, D. Stohr, J. Tingvold, A. B. Amundsen, Lydia Weiland, S. Kopf, W. Effelsberg and Ansgar Scherp fulgeo---Towards an Intuitive User Interface for a Multimedia Search Engine</p> <p>Junghoon Shin, Sangjun Lee and Taehyung Wang Semantic Approach for Identifying Harmful Sites using Link Relations</p> <p>Maurizio Atzori Computing Recursive SPARQL Queries</p> <p>Andrea Dessi and Maurizio Atzori Computing on-the-fly DBpedia Property Ranking</p>
June17 (Tuesday)	
7:30 – 17:00	Registration Room: PATIO ROOM (OUTSIDE)
7:30 – 8:30	Breakfast Room: PATIO ROOM (OUTSIDE)
8:30 – 9:40	Keynote (3): Dr. Steven Simske, HP Labs Title: Meta-Algorithmic Approaches to Semantic Computing

	<p>Room: PATIO ROOM Chair: Phil Sheu</p>
9:40 – 10:00	Coffee Break: PATIO ROOM (OUTSIDE)
10:00 – 13:00	<p>Tutorial on Semantic Computing with Big Data Dr. David Ostrowski, Ford Motor Research and Engineering</p> <p>Room: PATIO ROOM Chair: David Ostrowski</p>
13:00 – 14:00	Lunch (on your own)
14:00 – 15:10	<p>Keynote (4): Dr. Ching-Yung Lin, IBM T. J. Watson Title: Graph Technology for Semantic Analytics and Connected Big Data</p> <p>Room: PATIO ROOM Chair: Robert Mertens</p>
15:10 – 15:30	Coffee Break: PATIO ROOM (OUTSIDE)
15:30 – 18:00	<p>Plenary (2): Challenges of Semantic Computing and Medical Big Data</p> <p>Dr. Peter Haug, Intermountain Healthcare Title: A Probabilistic Look into the Semantics of Medicine</p> <p>Dr. William Hsu, University of California, Los Angeles Title: Representing Evidence from Biomedical Literature for Clinical Decision Support</p> <p>Dr. Tanveer Syeda-Mahmood, IBM Almaden Title: Patient Similarity Guided Decision Support</p> <p>Dr. Satya Sahoo, Case Western Reserve University Title: Biomedical Big Data for Clinical Research and Patient Care: Role of Semantic Computing</p> <p>Dr. Wei Wang, University of California, Los Angeles Title: Big Data, Big Challenges</p> <p>Room: PATIO ROOM Chair: William Hsu</p>
18:30 – 22:00	<p>Banquet</p> <p>Keynote (5): Mr. Anmol Bhasin, LinkedIn Title: Towards Realizing the Economic Graph - The Unreasonable Effectiveness of Big Structured and Graph Data</p> <p>Room: OFF-PREMISE I Chair: Phil Sheu</p>

June 18 (Wednesday)	
7:30 – 17:00	Registration Room: PATIO ROOM (OUTSIDE)
7:30 – 8:30	Breakfast Room: PATIO ROOM (OUTSIDE)
8:30 – 10:00	Session 3
Parallel Session 3	ICSC (3): Semantics Integration and Analysis (I)
Room	PATIO ROOM
Session Chair	Sven Mielke
	Pieter Colpaert, Laurens De Vocht, Steven Verstockt and Erik Mannens
	Ontology Based Improvement of Opening Hours in e-governments
	Miguel D. Tissera and Mark D. McDonnell
	Enabling "question answering" in the MBAT Vector Symbolic Architecture by Exploiting Orthogonal Random Matrices
	Ahmed Aleroud and George Karabatis
	Context Infusion in Semantic Link Networks to Detect Cyber-attacks: A Flow-based Detection Approach
Parallel Session 3	ICSC (4): Semantic-based Analysis for Web Applications (I)
Room	GARDEN ROOM III
Session Chair	Fabio Persia
	Lydia Weiland, Felix Hanser and Ansgar Scherp
	Requirements Elicitation towards a Search Engine for Semantic Multimedia Content
	Bing Li, Keith C.C. Chan and Leslie Carr
	Using Aligned Ontology Model to Convert a Cultural Heritage Resources into Semantic Web
	Ali Yadavar Nikraves, Samuel A. Ajila and Chung-Horng Lung
	Cloud Resource Autoscaling System based on Hidden Markov Model (HMM)
Parallel Session 3	ICSC (5): Semantics Mining, Learning, and Applications (II)
Room	PLAZA ROOM III
Session Chair	Thiago Nunes
	Lubomir Stanchev
	Creating a Phrase Similarity Graph from Wikipedia
	Abdulbaki Uzun, Mohamed Salem and Axel Küpper

	Exploiting Location Semantics for Realizing Crossreferencing Proactive Location-based Services
	Hamid Mousavi, Deirdre Kerr, Markus Iseli and Carlo Zaniolo
	Mining Semantic Structures from Syntactic Structures in Free Text Documents
10:00 – 10:20	Coffee Break: PATIO ROOM (OUTSIDE)
10:20 – 12:20	Session 4
Parallel Session 4	ICSC (6): Semantics Integration and Analysis (II)
Room	PATIO ROOM
Session Chair	Artem Katasonov
	Mohsen Taheriyani, Craig Knoblock, Pedro Szekely and José Luis Ambite
	A Scalable Approach to Learn Semantic Models of Structured Sources
	Sebastian Pospiech, Sven Mielke, Robert Mertens, Martin Pelke, Kavitha Jagannath and Michael Städler
	Exploration and Analysis of Undocumented Processes Using Heterogeneous and Unstructured Business Data
	Yang Syu, Yong-Yi Fanjiang, Jong Yih Kuo and Shang-Pin Ma
	A Review of the Automatic Service Composition Surveys
	Shasha Liu and Krys Kochut
	A Semantic End-to-end Process Constraint Modeling Framework
Parallel Session 4	ICSC (7): Semantics Mining, Learning, and Applications (III)
Room	GARDEN ROOM III
Session Chair	Roberto Pirrone
	Abha Moitra, Ravi Palla, Luis Tari and Mukkai Krishnamoorthy
	Semantic Inference for Pharmacokinetic Drug-Drug Interactions
	Maha Al-Yahya, Sawsan Almalak and Luluh Aldhubayi
	A Pattern-Based Approach to Semantic Relation Extraction Using a Seed Ontology
	Mahsa Kiani, Virendrakumar C. Bhavsar and Harold Boley
	Structure Similarity of Attributed Generalized Trees
	Sambhawa Priya, Yuanbo Guo, Michael Spear and Jeff Heflin
	Partitioning OWL Knowledge Bases for Parallel Reasoning
Parallel Session 4	The Third IEEE International Workshop on Semantic Multimedia (SMM)

Room	PLAZA ROOM III
Session Chair	Giovanni Pilato
	Agnese Augello, Ignazio Infantino, Giovanni Pilato, Riccardo Rizzo and Filippo Vella Robotic Creativity Driven by Motivation and Semantic Computing
	Diego Terrana, Agnese Augello and Giovanni Pilato Facebook Users Relationships Analysis based on Sentiment Classification
	Oguzhan Menemencioglu and Ilhami Muharrem Orak A Review on Semantic Web and Recent Trends in Its Applications
	Chia-Wei Liao, Kai-Hsuan Chan, Wen-Tsung Chang and Sheng-Tsung Tu Scene-based Video Analytics Studio
12:20 – 13:30	Lunch (on your own)
13:30 – 16:00	Session 5
Parallel Session 5	ICSC (8): Semantics Integration and Analysis (III)
Room	PATIO ROOM
Session Chair	Sebastian Pospiech
	Hamid Mousavi, Deirdre Kerr, Markus Iseli and Carlo Zaniolo Harvesting Domain Specific Ontologies from Text
	Artem Katasonov and Ali Lattunen A Semantic Approach to Enterprise Information Integration
	Amna Basharat, I. Budak Arpinar, Shima Dastgheib, Ugur Kursuncu, Krys Kochut and Edogan Dogdu CrowdLink: Crowdsourcing for Large-Scale Linked Data Management
	Seung-Hwa Chung, Wei Tai, Declan O'Sullivan and Aidan Boran A Semantic Mapping Representation and Generation Tool using UML for System Engineers
	Daniel E. Padilla and Mark D. McDonnell A Neurobiologically Plausible Vector Symbolic Architecture
Parallel Session 5	ICSC (9): Semantic-based Analysis for Web Applications (II)
Room	GARDEN ROOM III
Session Chair	Ivana Donevska
	Diego Terrana, Giovanni Pilato and Agnese Augello

	<p>Automatic Unsupervised Polarity Detection on a Twitter Data Stream</p> <p>Arianna Pipitone and Roberto Pirrone</p> <p>A Hidden Markov Model for Automatic Generation of ER Diagrams from OWL Ontology</p>
	<p>Vincenzo Moscato, Fabio Persia, Antonio Picariello, Aniello De Santo and Flora Amato</p> <p>Detecting Unexplained Human Behaviors in Social Networks</p>
	<p>Anastasia Dimou, Miel Vander Sande, Jason Slepicka, Pedro Szekely, Erik Mannens, Craig Knoblock and Rik Van de Walle</p> <p>Mapping Hierarchical Sources into RDF using the RML Mapping Language</p>
	<p>Moritz von Hoffen, Abdalbaki Uzun and Axel Küpper</p> <p>Analyzing the Applicability of the Linking Open Data Cloud for Context-aware Services</p>
Parallel Session 5	Workshop on Semantic Computing with Big Data (SCBD)
Room	PLAZA ROOM III
Session Chair	David Ostrowski
	<p>Ahmad Slim, Gregory Heileman and Kent Bimson</p> <p>Find-to-Forecast Process: An Automated Methodology for Situation Assessment</p>
	<p>David Ostrowski</p> <p>MapReduce Design Patterns for Social Networking Analysis</p>
	<p>Dimitri Popolov and Joseph R. Barr</p> <p>‘Units of Meaning’ in Medical Documents - Natural Language Processing Perspective</p>
	<p>Tamara B. Sipes, Steve Jiang, Kevin Moore, Nan Li, Homa Karimabadi, Joseph R. Barr</p> <p>Anomaly Detection in Time Series Radiotherapy Treatment Data</p>
	<p>Guigang Zhang, Jian Wang, and Weixing Huang</p> <p>A Semantic++ MapReduce - A Preliminary Report</p>