

Detailed program

Sunday September 16	
20:00 – 22:00	Informal reception and social networking

Monday September 17	
7:30 – 8:30	Registration and Breakfast
8:30 – 8:40	Welcome from Conference Chair
8:40 – 9:40	Keynote (1) Chair: Prof. Phillip Sheu, University of California, Irvine
	A New Frontier in Computation: Computation with Information Described in Natural Language Prof. Lotfi A. Zadeh, Professor and Director of BISC, University of California, Berkeley
9:40 – 10:00	Coffee Break
10:00 – 11:30	Distinguished Expert Panel I Moderator and Chair: Prof. Phillip Sheu, University of California, Irvine
	Semantic Computing: Issues, Challenges, and Future Research Directions Panelists: Prof. Arvind K. Joshi, Henry Salvatori Professor of Computer and Cognitive Science, University of Pennsylvania; Dr. Raymond Paul, Technical Director for Command and Control (C2) Policy, US Department of Defense; Prof. C. V. Ramamoorthy, Professor Emeritus, University of California, Berkeley; Prof. Lotfi A. Zadeh, Professor and Director of BISC, University of California, Berkeley;
11:30 – 12:30	Lunch (on your own)
12:30 – 13:30	Keynote (2) Chair: Dr. Gerald Friedland, ICSI Berkeley, USA
	Tomorrow's Needs - Yesterday's Technology: DoD's Architectural Dilemma Dr. Raymond Paul, Technical Director for Command and Control (c2) Policy, US Department of Defense

13:40 – 15:00	Session 1
Parallel Session 1	TUNLP (1): Text Understanding and Natural Language Processing
Session Chair	Dr. Radu Florian, IBM Research, USA
	Robust Classification of Dialog Acts from the Transcription of Utterances Mohammad Sorower and Mohammed Yeasin
	Timelines from Text: Identification of Syntactic Temporal Relations Steven Bethard, James H. Martin and Sara Klingenstein
	Lexical and Discourse Analysis of Online Chat Dialog Eric Forsyth and Craig Martell
	Automatic Generation of Multi-Modal Dialogue from Text Based on Discourse Structure Analysis Helmut Prendinger, Paul Piwek and Mitsuru Ishizuka
Parallel Session 1	SSE (1): Services and Software Engineering
Session Chair	Dr. Ramazan Savas Aygun, University of Alabama, Huntsville, USA
	A Software Birthmark Based on Dynamic Opcode n-gram Bin Lu, Fenlin Liu, Xin Ge, Bin Liu and Xiangyang Luo
	A Framework to build an object oriented mathematical tool with computer algebra system (CAS) capability Dil Hussain
	Procuring Requirements for ERP Software Based on Semantic Similarity Gao Juntao, Zhang Li and Jiang Wei
Parallel Session 1	SS (1) Content-based retrieval and Semantic annotation of multimedia contents
Session Chair	Dr. Balakrishnan Prabhakaran, University of Texas at Dallas, USA
	Segmenting Photo Streams in Events Based on Optical Metadata Bo Gong and Ramesh Jain
	A Hybrid Approach to Improving Semantic Extraction of News Video A.G. Hauptmann, M.-Y.Chen, M. Christel, W.-H. Lin, and J. Yang
	CDIP: Collection-Driven, yet Individually-Preserving Automated Blog Tagging

	Jong Wook Kim, K. Selcuk Candan, J. Tatemura
	Eventory - An Event Based Media Repository X-J. Wang, S. Mamadgi, A. Thekdi, A. Kelliher, and H. Sundaram
15:00 – 15:20	Coffee break
15:20 – 17:20	Session 2
Parallel Sessions 2	KEDM (1): Knowledge Engineering and Data Mining
Session Chair	Dr. Gerald Friedland, ICSI Berkeley, USA
	Knowledge Integration in Open Worlds: Utilizing the Mathematics of Hierarchical Structure (invited talk) Cliff Joslyn, Damian Gessler and Karin Verspoor
	An Interactive Diagnosis and Repair of OWL Ontology Lu Lu, Nandan Parameswaran and Pradeep Kumar Ray
	Sub-Symbolic Semantic Layer in Cyc for Intuitive Chat-Bots Giovanni Pilato, Agnese Augello, Giorgio vassallo and Salvatore Gaglio
	A Method for the Construction of a Probabilistic Hierarchical Structure Based on a Statistical Analysis of a Large-scale Corpus Asuka Terai, Bin Liu and Masanori Nakagawa
	Extended Fuzzy Description Logics with Restricted Terminological Boxes Dazhou kang, Baowen Xu and Yanhui Li
Parallel Sessions 2	MAVS (1): Multimedia, Audio, and Visual Semantics
Session Chair	Prof. Alex Hauptmann, Carnegie Mellon University, USA
	A Novel Probabilistic Approach to Modeling the Pleasure-Arousal-Dominance Content of the Video based on ``Working Memory'' Sutjipto Arifin and Peter Y. K. Cheung
	Semantic Analysis for Topical Segmentation of Videos Youngja Park and Ying Li
	Automated summarization of narrative video on a semantic level Tsvetomira Tsoneva, Mauro Barbieri and Hans Weda

	Who needs video summarization anyway? Simone Santini
Parallel Sessions 2	SW (1): Semantic Web
Session Chair	Dr. Hasida Koiti, AIST, Japan (TBC) Prof. Eero Hyvönen, Helsinki University of Technology, Finland (TBC)
	Ontology Evaluation and Ranking using OntoQA Samir Tartir and Budak Arpinar
	A Trust Based Methodology for Web Service Selection Stefania Galizia, Alessio Gugliotta and John Domingue
	Convergence of Web 2.0 and Semantic Web: A Semantic Tagging and Searching System for Creating and Searching Blogs (invited talk) Gina Hope, Taehyung Wang and Shan Barkataki.
	Semantic Web Infrastructure Jiri Dokulil, Jaroslav Tykal, Jakub Yaghob and Filip Zavoral
	Elements of a National Semantic Web Infrastructure --- Case Study Finland on the Semantic Web (invited talk) Eero Hyvönen.
	Semantic Locations in Online Communities Martin Gruhn, Stefan Foell, Jens Pontow, David Linner and Ilja Radusch.
17:30 – 19:00	Cocktail Reception
19:00 – 22:00	(Optional) Social networking with dinner (on your own) arranged at Fashion Island and/or Irvine Spectrum; Courtesy transportation is available

Tuesday September 18	
7:30 – 8:00	Registration and Breakfast
8:00 – 9:00	Keynote (3) Chair: Prof. Max Muhlhauser, Darmstadt University of Technology, Germany
	Towards Discourse Meaning Prof. Arvind K. Joshi, Henry Salvatori Professor of Computer and Cognitive Science, University of Pennsylvania
9:00 – 10:30	Distinguished Expert Panel II Moderator and Chair: Dr. Heather Yu, Huawei Technologies, USA
	Bridging the Multimedia 'Semantic Gap' Panelists: Prof. Ramesh Jain, Bren Professor in Information & Computer Sciences, University of California, Irvine; Dr. Doree Duncan Seligmann, Director of Collaborative Applications Research, Avaya Labs; Prof. Dr. Max Muhlhauser, Darmstadt University of Technology, Germany; Prof. Arif Ghafoor, Professor of Electrical and Computer Engineering, Purdue University; Prof. Jaideep Srivastava, University of Minnesota;
10:30 – 10:50	Coffee Break
10:50– 12:30	Session 3
Parallel Session 3	TUNLP (2): Text Understanding and Natural Language Processing
Session Chair	Prof. Craig Martell, Naval Postgraduate School, USA
	Toward Spotting the Pedophile: Telling victim from predator in text chats Nick Pendar.
	Random-Walk Term Weighting for Improved Text Classification Samer Hassan, Rada Mihalcea and Carmen Banea.
	Sentence Similarity based on Dynamic Time Warping Xiaoying Liu, Yiming Zhou and Ruoshi Zheng.

	<p>Integrating Semantic Knowledge into Text Similarity and Information Retrieval (invited talk)</p> <p>Christof Müller, Iryna Gurevych and Max Mühlhäuser.</p>
	<p>Cross-Genre Feature Comparisons for Spoken Sentence Segmentation</p> <p>Sebastien Cuendet, Elizabeth Shriberg, Dilek Hakkani-Tur, James Fung and Benoit Favre.</p>
Parallel Session 3	SSE (2): Modeling, Services and Software Engineering
Session Chair	Prof. Ilja Radusch, Technischen Universität Berlin, Germany
	<p>Context-Aware Architecture for Intelligent Application Services in Ubiquitous Computing</p> <p>Jae-Woo Chang and Hyun-Jo Lee.</p>
	<p>Thematic Role based Generation of UML Models from Real World Requirements</p> <p>Tom Gelhausen and Walter Tichy.</p>
	<p>Challenges and Directions for Semantic Communication</p> <p>Volkan Rodoplu and Snehal Vadvalkar.</p>
	<p>Towards Light-weight Semantic Descriptions for Decentralized Service-oriented Systems (invited talk)</p> <p>Heiko Pfeffer, David Linner, Carsten Jacob, Ilja Radusch and Stephan Steglich.</p>
	<p>Restraining False Feedbacks in Peer-to-Peer Reputation Systems</p> <p>Yu Jin, Zhimin Gu and Zhijie Ban.</p>
	<p>Semantic Computing: Evolutionary Emergence (invited talk)</p> <p>Sumit Ghosh</p>
Parallel Session 3	SS (2): Closing the semantic gap: concept-based multimedia mining and retrieval
Session Chair	Dr. Radu Florian, IBM Research, USA
	<p>Mapping Query to Semantic Concepts: Leveraging Semantic Indices for Automatic and Interactive Video Retrieval</p> <p>Dong Wang, Zhikun Wang, Xirong Li, Xiaobing Liu, Jianmin Li and Bo Zhang</p>
	Multi-Concept Multi-Modality Active Learning for Interactive Video

	<p>annotation</p> <p>Meng Wang, Xian-sheng Hua, Yan Song and Li-Rong Dai</p>
	<p>Searching Visual Semantic Spaces with Concept Filters,</p> <p>Eric Zavesky, Zhu Liu, David Gibbon and Behzad Shahraray,</p>
	<p>Collective Media Annotation using Undirected Random Field Models</p> <p>Matthew Cooper</p>
	<p>Exploring Concept Selection Strategies for Interactive Video Search,</p> <p>Michael G. Christel and Alexander G. Hauptmann</p>
12:30 – 14:00	Lunch (on your own)
14:00 – 15:00	<p>Keynote (4)</p> <p>Chair: Dr. Heather Yu, Huawei Technologies USA</p>
	<p>How what people are doing helps identify who they should be interacting with and how: Driving rich user communication experiences through context awareness and social software</p> <p>by Dr. Doree Duncan Seligmann, Director of Collaborative Applications Research, Avaya Labs</p>
15:00 – 15:20	Coffee Break
15:20 – 17:20	Session 4
Parallel Session 4	TUNLP (3): Text Understanding and Natural Language Processing
Session Chair	Dr. Daniel Bikel, IBM Research, USA
	<p>A Graph Modeling of Semantic Similarity between Words</p> <p>Marco A. Alvarez and SeungJin Lim.</p>
	<p>Unsupervised Graph-based Word Sense Disambiguation Using Measures of Word Semantic Similarity</p> <p>Ravi Sinha and Rada Mihalcea.</p>
	<p>Clustering Using Feature Domain Similarity to Discover Word Senses for Adjectives</p> <p>Noriko Tomuro, Steve Lytinen, Kyoko Kanzaki and Hitoshi Isahara.</p>
	<p>Towards Large-scale High-Performance English Verb Sense Disambiguation by Using Linguistically Motivated Features</p> <p>Jinying Chen, Dmitriy Dligach and Martha Palmer.</p>

Parallel Session 4	MAVS (2): Multimedia, Audio, and Visual Semantics
Session Chair	Dr. Zhu Liu, AT&T Labs, USA
	An Efficient Multimodal Language Processor for Parallel Input Strings in Multimodal Input Fusion Yong Sun and Yu Shi
	Smoothing Algorithm for N-gram Model Using Agglutinative Characteristic of Korean Jae Hyun Park, Young-In Song and Hae-Chang Rim
	Adding Semantics to Formal Data Specifications to Automatically Generate Corresponding Voice Data-Input Applications Fadi Hanna and Richard Frost
	Multimedia Reasoning with Natural Language Support Stamatia Dasiopoulou, Johannes Heinecke and Carsten Saathoff
	Harnessing Language in Mobile Environments Boris Katz, Gary Borchardt, Sue Felshin and Federico Mora
	Large-Margin Discriminative Training of Hidden Markov Models for Speech Recognition (invited talk) Dong Yu and Li Deng
Parallel Session 4	SS (3): Recognizing Entities and Concepts in Web Pages and The World of Semantics beyond the Semantic Web
Session Chair	Dr. Pei Cao, Google, USA
	Answering English Questions using Foreign-Language, Semi-Structured Sources Boris Katz, Gary Borchardt, Sue Felshin, Yuan Shen and Gabriel Zaccak
	Unrestricted Coreference: Identifying Entities and Events in OntoNotes Sameer Pradhan, Lance Ramshaw, Ralph Weischedel, Jessica MacBride and Linnea Micciulla
	N-gram Statistics in English and Chinese: Similarities and Differences Hongjun Zhu
	Semantic Interpretation of the Web without the Semantic Web: Toward Business-Aware Web Processors Peter Z. Yeh, Daniel R. Farina, and Alex Kass

	<p>SA-REST and (S)mashups : Adding Semantics to REST based Services</p> <p>Jon Lathem, Karthik Gomadam, Amit Sheth</p>
	<p>The Programmable Web: Agile, Social, and Grassroot Computing</p> <p>E. Michael Maximilien, Ajith Ranabahu</p>
17:40 – 18:00	Board UCI chartered buses and leave for UCI University Club
18:00 – 18:30	UCI Campus Walk Tour (Optional) and Networking
18:30 – 21:00	Banquet
Chair and Host	Prof. Phillip Sheu, University of California, Irvine
19:30 –19:45	<p>Award Ceremony</p> <p>Chair: Prof. Phillip Sheu, University of California, Irvine, USA; Dr. Iryna Gurevych, Darmstadt University of Technology, Germany; and Dr. Zhu Liu, AT&T Labs, USA</p>
19:45 – 21:00	<p>Banquet Keynotes (5, 6)</p> <p>Semantic Computing - A New Frontier by Prof. C. V. Ramamoorthy, Chairman, Board of Directors, Institute for Semantic Computing, Professor Emeritus, University of California, Berkeley</p> <p>Behind the Scenes Data Challenges in Semantic Computing and Dr. Waqar Hasan, VP of Engineering, Yahoo! and Dr. Donovan Schneider, Chief Architect, Yahoo!</p>
21:00 - 21:30	Board UCI chartered buses and leave for Hyatt Irvine

Wednesday September 19	
7:30 – 8:00	Registration and Breakfast
8:00 – 8:50	Keynote (7) Chair: Prof. Shu-Ching Chen, Florida International University, USA
	Semantics in Experiential Computing by Prof. Ramesh Jain, Bren Professor in Information & Computer Sciences, University of California, Irvine
9:00 – 10:40	Session 5
Parallel Session 5	TUNLP (4): Text Understanding and Natural Language Processing
Session Chair	Dr. Iryna Gurevych, Darmstadt University of Technology, Germany
	If We Want Your Opinion Daniel Bikel and Jeffrey Sorensen.
	Reliability of human annotation of semantic roles in noisy text Derrick Higgins.
	Determining Modality and Factuality for Text Entailment Roser Saurí Colomer and James Pustejovsky
	OntoNotes: A Unified Relational Semantic Representation Sameer Pradhan, Eduard Hovy, Mitch Marcus, Martha Palmer, Lance Ramshaw and Ralph Weischedel.
Parallel Session 5	KEDM (2): Knowledge Engineering and Data Mining
Session Chair	Prof. Shu-Ching Chen, Florida International University, USA
	ASIC: Supervised Multi-class Classification using Adaptive Selection of Information Components Zongxing Xie, Thiago Quirino, Mei-Ling Shyu and Shu-Ching Chen
	Semantic clustering of information systems' users with stochastic techniques Konstantinos Raftopoulos, Nikolaos Papadakis, Klimis Ntalianis and Stefanos Kollias
	Semantic Meta Knowledge for Integration of Heterogeneous Information

	Sources and Applications (invited talk) Sergej Sizov, Bernhard Schüler and Steffen Staab
	The Spree Expert Finding System Florian Metze, Christian Bauckhage, Tansu Alpcan, Kathrin Dobbrott and Caroline Clemens
	Intelligent Parsing of Scanned Volumes for Web Based Archives (invited talk) Xiaonan Lu, James Wang and C. Lee Giles
Parallel Session 5	WS (1): Multimedia Semantics
Session Chair	Dr. Min Chen, University of Montana, USA
	FSM-Based Model for Spatio-Temporal Event Recognition for HCS Wamiq Manzoor Ahmed, Jia Liu, Dominik Lenz, Arif Ghafoor, J. Paul Robinson
	Semantic Event Extraction Using Neural Network Ensembles Min Chen, Chengcui Zhang, Shu-Ching Chen,
	An Effective and Robust Method for Automatic Bacterial Colony Enumeration Chengcui Zhang, Wei-Bang Chen
10:40 – 11:00	Coffee Break
11:00 – 12:20	Session 6
Parallel Session 6	TUNLP (5): Text Understanding and Natural Language Processing
Session Chair	Dr. Philipp Cimiano, Institut AIFB, Universität Karlsruhe, Germany
	Nested Named Entity Recognition in Historical Archive Text Kate Byrne.
	Modeling Discriminative Global Inference Nicholas Rizzolo and Dan Roth.
	Toward Video Bookmarking Search: Search-Target Inference from TV Watching Masayuki Okamoto and Hideo Umeki.
Parallel Session 6	MAVS (3): Multimedia, Audio, and Visual Semantics
Session Chair	Dr. Dong Yu, Microsoft Research, USA

	Perceptual Shape-Based Real World Image Representation and Retrieval Xiaofen Zheng, Scott A. Sherrill-Mix and Qigang Gao
	Content-based Image Authentication and Its Security Issues Shuihua Han, Chao-hsien Chu and Shuangyuan Yang
	Robust Invariant Descriptor for Symbol-Based Image Recognition and Retrieval Alexander Wong and William Bishop
Parallel Session 6	WS (2): Multimedia Knowledge Management and Processing
Session Chair	Dr. Chengcui Zhang, The University of Alabama at Birmingham, USA
	Knowledge Management in Virtual Communities of Practice: Experiments with a Helper Tool Junio Cesar de Lima, Cedric Luiz de Carvalho
	Notes for a Collaboration: On the Design of a Wiki-type Educational Video Lecture Annotation System Stefano Ferretti, Silvia Mirri, Marco Roccetti, Paola Salomoni
	The Study of Region Style Classification of Chinese Folk Songs Yi Liu, JiePing Xu, Lei Wei, Yun Tian
	Multicast based Middleware for Parallel Stream Processing Aizaz Hakro, Marguerite C. Murphy
12:20 – 13:30	Lunch (on your own)
13:30 – 15:30	Session 7
Parallel Session 7	TUNLP (6): Text Understanding and Natural Language Processing
Session Chair	Dr. Tao Wu, Nokia, USA
	Corpus-based Pattern Induction for a Knowledge-based Question Answering Approach (invited talk) Philipp Cimiano, Michael Erdmann and Günter Ladwig.
	Comparing the Contribution of Syntactic and Semantic Features in Closed versus Open Domain Question Answering Abolfazl Keighobadi Lamjiri, Leila Kosseim and Thiruvengadam Radhakrishnan.
	Semantic Processing of Natural Language Queries in the OntoNL

	<p>Framework</p> <p>Anastasia Karanastasi and Stavros Christodoulakis.</p>
	<p>Learning by Reading by Learning to Read</p> <p>Sergei Nirenburg, Tim Oates and Jesse English.</p>
	<p>CLDA: Feature Selection for Text Categorization Based on Constrained LDA</p> <p>Zifeng cui, Baowen Xu, Weifeng Zhang, Dawei Jiang and Junling Xu</p>
Parallel Session 7	MAVS (4): Multimedia, Audio, and Visual Semantics
Session Chair	Prof. William Bishop, University of Waterloo, Canada
	<p>Semantic annotation and retrieval of video events using multimedia ontologies (invited talk)</p> <p>Andrew Bagdanov, Marco Bertini, Alberto Del Bimbo, Giuseppe Serra and Carlo Torniai.</p>
	<p>Semantic Information Extraction of Video Based on Ontology and Inference</p> <p>Jie Ma, Jing Zhang, Hong Lu and Xiangyang Xue.</p>
	<p>Video Object Segmentation by 2-D Mesh-Based Motion Analysis According to Motion Connectivity</p> <p>Yujian Wang and Zhenyang Wu.</p>
	<p>Ontology-Based Trajectory Analysis for Semantic Event Detection (invited talk)</p> <p>Alexia Briassouli, Stamatia Dasiopoulou and Yiannis Kompatsiaris.</p>
	<p>Current Multimedia Data Formats and Semantic Computing: A Practical Example (invited talk)</p> <p>Gerald Friedland.</p>
Parallel Session 7	SW (2): Semantic Web
Session Chair	<p>Dr. Milind Naphade, IBM Watson USA (TBC)</p> <p>Prof. Ashfaq Khokhar, University of Illinois at Chicago, USA</p>
	<p>A Semantic Matching Algorithm for Discovery in UDDI</p> <p>Unai Aguilera, Joseba Abaitua, Josuka Díaz, David Buján and Diego López de Ipiña.</p>
	<p>S-MOJOHON: Towards a semantic architecture for message exchanging</p> <p>Daniel Lobato, Renato de Freitas Bulc-Neto, Matheus Qualio Barbosa, Maria da Graca Pimentel and Cesar Augusto Teixeira.</p>

	Improving Legal Ontologies through Semantic Representation of Adjectives Anderson Bertoldi and Rove Chishman
	Grouping and Aggregate Queries Over RDF Databases Dawit Seid and sharad mehrotra.
	Evolutionary Conceptual Clustering of Semantically Annotated Resources Nicola Fanizzi, claudia d'Amato and Floriana Esposito.
	Remote Experiments as Semantic Web Services Cassio Prazeres, Cesar Augusto Teixeira and Maria da Graca Pimentel.
15:30 – 17:00	Wrap up session and ICSC2008 planning meeting
Session Chair	Prof. Philip Sheu, University of California, Irvine