

Program at a glance (IEEE ICSC 2019)

January 30 (Wednesday)				
Time\Place	Newport Ballroom	Harbor	Lido	Catalina
07:30 - 17:00	Registration			
07:30 - 08:30	Breakfast			
08:30 - 09:00	Opening Ceremony			
09:00 - 09:50	Keynote 1: Paul Conoval (Chair: Phillip Sheu)			
09:50 - 10:10	Coffee Break			
10:10 - 11:30	Session 1: Semantic Search and Querying (4 regular papers)			
11:30 - 13:00	Lunch on your own			
13:00 - 14:20	Session 2: Semantic Learning I (4 regular papers)			
14:20 - 14:40	Coffee Break			
14:40 - 16:00	Session 3: Semantic Applications I (4 regular papers)			
16:00 - 17:00	Tutorial on Semantic Computing with Big Data			
17:00 - 18:00	Plenary session			
18:00 - 19:00	Poster Session 1 (12 regular papers)			
19:30 - 21:30		Reception		

January 31 (Thursday)				
Time\Place	Newport Ballroom	Harbor	Lido	Catalina
07:30 - 17:00	Registration			
07:30 - 08:30	Breakfast			
08:30 - 09:20	Keynote 2: Chris Dede and Joseph Reily (Chair: Fabio Persia)			
09:20 - 10:00	Session 4: Semantic Description (2 papers)			
10:00 - 10:20	Coffee Break			
10:20 - 11:50	Session 5.1: Semantic Learning II (6 short papers)	Session 5.2: Semantic Mining and Applications (6 short papers)	Session 5.3: Semantic Applications II (6 short papers)	Session 5.4: Semantic Applications III (6 short papers)
11:50 - 13:00	Lunch on your own			
13:00 - 15:30	Session 6: Best papers (6 regular papers)			
15:30 - 15:50	Coffee Break			
15:50 - 16:00	TCSEM session			
16:00 - 17:00	Tutorial on Semantic Block Chain			
17:00 - 18:00	Poster Session 2 (8 regular + 24 short papers)			
18:00 - 18:30	Moving to UCI University Club (charter bus service will be provided)			

18:30 - 21:00	Banquet + Keynote 3: Dick Bulterman (@UCI University Club) (Chair: Srividya Bansal) Best Paper Awards Best Student Opponent Award
21:00 - 21:30	Moving back to the hotel (charter bus service will be provided)

February 1 (Friday)				
Time\Place	Newport Ballroom	Harbor	Lido	Catalina
07:30-17:00	Registration			
07:30-08:30	Breakfast			
08:30-09:20	Keynote 4: Amit Mohanty (Chair: Michael Bloodgood)			
09:20-10:00	Session 7: Semantic Analysis (2 regular papers)			
10:00-10:20	Coffee Break			
10:20-11:40	Session 8: Semantic Learning III (4 regular papers)			
11:40-13:00	Lunch on your own			
13:00-14:00	Session 9: Semantic Applications IV (3 regular papers + 2 short papers)			
14:00-14:30			Resource Track (4 papers) - Part I	
14:30-14:50	Coffee Break			

14:50 - 15:20	Session 10.1: Semantic Applications V (6 short papers)	Session 10.2: Semantic Analysis and Learning (5 short papers)	Resource Track (4 papers) - Part II	
14:50-16:20			Workshop SCSN (8 papers)	
16:20-16:30	Short Break			
16:30-17:30	Workshop SML (4 papers)	Workshop WAT (2 papers)	Workshop SCSN continued	
17:30-18:30	Poster Session 3 (9 regular papers + 13 short papers)			

Detailed Sessions (IEEE ICSC 2019)

Session	Paper ID	Title
Session 1: Semantic Search and Querying (full paper: 20 min/paper) Session Chair: Srividya Bansal	15	Lahiru de Alwis, Achala Dissanayake, Manujith Pallegawatte, Kalana Silva and Uthayasanker Thayasivam. <i>Extracting Relations from Web Tables by Leveraging Table Entity Behaviours.</i>
	49	Shanshan Jiang, Thomas F. Hagelien, Marit Natvig and Jingyue Li. <i>Ontology-based Semantic Search For Open Government Data.</i>
	50	Pablo Torres-Tramón, Mohan Timilsina and Conor Hayes. <i>A Diffusion-based Method for Entity Search.</i>
	65	Mahmudul Hassan and Srividya Bansal. <i>Data Partitioning Scheme for Efficient Distributed RDF Querying Using Apache Spark.</i>
Session 2: Semantic Learning I	13	Prabhakar Gupta, Shaktisingh Shekhawat and Keshav Kumar. <i>Unsupervised quality estimation without reference corpus for subtitle machine translation using word embeddings.</i>

(full paper: 20 min/paper) Session Chair: Michael Bloodgood	16	Jhih-Sheng Fan, Mu Yang, Peng-Hsuan Li and Wei-Yun Ma. <i>HWE: Word Embedding with Heterogeneous Features.</i>
	62	Michael Altschuler and Michael Bloodgood. <i>Stopping Active Learning based on Predicted Change of F Measure for Text Classification.</i>
	29	Rashindrie Perera, Tamasha Malepathirana, Yasasi Abeysinghe, Yumna Albar and Uthayasanker Thayasivam. <i>Amalgamation of General and Domain Specific Word Embedding for Improved Hierarchical Aspect Aggregation.</i>
Session 3: Semantic Applications I (full paper: 20 min/paper) Session Chair: Fabio Persia	73	Dmitri Roussinov and Nadezhda Puchnina. <i>Combining Neural Networks and Pattern Matching for Ontology Mining - a Meta Learning Inspired Approach.</i>
	78	Weihua Li, Oshani Seneviratne and Lalana Kagal. <i>A Semantic Platform for Developing Data-Intensive Mobile Apps.</i>
	113	Marijn Schraagen and Floris Bex. <i>Extraction of semantic relations in noisy user-generated law enforcement data.</i>
	116	Sharmila Mani, Sourabh Vasant Gothe, Sourav Ghosh, Ajay Mishra, Prakhar Kulshreshtha, Bhargavi M and Muthu Kumaran. <i>Real-Time Optimized N-gram For Mobile Devices.</i>
Session 4: Semantic Description (full paper: 20 min/paper) Session Chair: Giovanni Pilato	32	Caroline Sabty, Mohamed Elmahdy and Slim Abdennadher. <i>Named Entity Recognition on Arabic-English Code-Mixed Data.</i>
	8	André Pomp, Johannes Lipp and Tobias Meisen. <i>You are missing a concept! Enhancing Ontology-Based Data Access with Evolving Ontologies.</i>
Session 5.1: Semantic Learning II (short paper: 15 min/paper)	36	Vamsi Krishna Penumadu, Srikanth Mujjiga, Kalyan Chakravarthi Murahari and Vijayananda J. <i>Distributional Semantics of Clinical Words.</i>
	38	Sherzod Hakimov, Soufian Jebbara and Philipp Cimiano. <i>Deep Learning Approaches for Question Answering on Knowledge Bases: an evaluation of architectural design choices.</i>

Session Chair: Ahmet Melih Basbug	59	Vijay Daultani, Lasguido Nio and Young-Joo Chung. <i>Unsupervised Extractive Summarization for Product Description using Coverage Maximization with Attribute Concept.</i>
	72	Ismael A Ali and Austin Melton. <i>Graph-Based Semantic Learning, Representation and Growth from Text: A Systematic Review.</i>
	137	Walter Gerych, Emmanuel Agu and Elke Rundensteiner. <i>Classifying Depression in Imbalanced Datasets using an Autoencoder-Based Anomaly Detection Approach.</i>
	144	Ahmet Melih Başbuğ and Mustafa Sert. <i>Acoustic Scene Classification Using Spatial Pyramid Pooling With Convolutional Neural Networks.</i>
Session 5.2: Semantic Mining and Applications (short paper: 15 min/paper) Session Chair: Lubomir Stanchev	39	Kai Ishikawa, Hiroya Takamura and Manabu Okumura. <i>Dynamic Ensemble of Diversified Encodings for Event Nugget Detection.</i>
	56	Felix Kuhr and Ralf Möller. <i>On Corpus-driven Annotation Enrichment.</i>
	68	Syed Hashmi and Ajay Bansal. <i>Information Extraction and Visualization of Unstructured Textual data.</i>
	84	Seyedamin Pouriyeh, Mehdi Allahyari, Gong Cheng, Hamid Reza Arabnia, Maurizio Atzori and Krys Kochut. <i>R-LDA: Profiling RDF datasets using Knowledge-based Topic Modeling.</i>
	109	Lubomir Stanchev and Eric LaBouve. <i>Combining Parts of Speech, Term Proximity, and Query Expansion for Document Retrieval.</i>
	115	Huaijin Peng, Jing Wang and Qiwei Shen. <i>Improving Text Models with Latent Feature Vector Representations.</i>
Session 5.3: Semantic Applications	71	Sukanya Manna and Haruto Nakai. <i>Effectiveness of Word Embeddings on Classifiers: A case study on tweets.</i>
	79	Naser Al Madi and Javed Khan. <i>Modeling Part-Of-Speech and Semantic-Significance Effects on Semantic Construction During Reading.</i>

II (short paper: 15 min/paper) Session Chair: Markus Endler	83	Ruhan Monteiro, Markus Endler, Vitor Almeida and Edward Haeusler. <i>A Real-Time Reasoning Service for the Internet of Things.</i>
	105	Suleep Kumar Bhogi, Kushal Singla and Joy Bose. <i>User Profile in Absence of Ground Truth for Mobile User.</i>
	122	Marjolein Deryck, Jo Devriendt, Simon Marynissen and Joost Vennekens. <i>Legislation in the knowledge base paradigm: interactive decision enactment for registration duties.</i>
	132	Heba Wagih, Hoda Mokhtar and Samy Ghoniemy. <i>SIMBA: A Semantic-Influence Measurement Based Algorithm for Detecting Influential Diffusion in Social Networks.</i>
Session 5.4: Semantic Applications III (short paper: 15 min/paper) Session Chair: Banafsheh Rekabdar	19	Yue Meng, Peng Wang and Junyan Xiao. <i>NeLSTM: A New Model for Temporal Link Prediction in Social Networks.</i>
	20	Kamal Jnawali, Mohammad R Arbabshirani, Alvaro Ulloa, Naval Gund Rao and Aalpen A Patel. <i>Automatic Classification of Radiological Report for Intracranial Hemorrhage.</i>
	24	Yassine Benajiba, Jin Sun, Yong Zhang, Longquan Jiang, Zhiliang Weng and Or Biran. <i>Siamese Networks for Semantic Pattern Similarity.</i>
	25	Longquan Jiang, Or Biran, Mrigank Tiwari, Zhiliang Weng and Yassine Benajiba. <i>End-to-End Product Taxonomy Extension from Text Reviews.</i>
	47	Christophe Debruyne, Harshvardhan J. Pandit, Dave Lewis and Declan O'Sullivan. <i>Towards Generating Policy-compliant Datasets.</i>
	141	Banafsheh Rekabdar, Christos Mousas, Bidyut Gupta. <i>Generative Adversarial Network with Policy Gradient for Text Summarization.</i>
Session 6: Best Papers (full paper: 20 min/paper) Session Chair:	22	Bradley Hauer, Yixing Luan and Grzegorz Kondrak. <i>You Shall Know the Most Frequent Sense by the Company it Keeps.</i> Opponent: Pablo Torres, Insight Centre for Data Analytics; National University of Ireland, Galway.

Srividya Bansal	61	Bo Fu and Ben Steichen <i>Using Behavior Data to Predict User Success in Ontology Class Mapping – An Application of Machine Learning in Interaction Analysis.</i> Opponent: Maximilian Droog-Hayes, Queen Mary University of London.
	92	Mahtab Ahmed, Jumayel Islam, Muhammad Rifayat Samee and Robert E. Mercer. <i>Identifying Protein-Protein Interaction using Tree LSTM and Structured Attention.</i> Opponent: Yixing Luan, University of Alberta, Department of Computing Science.
	102	Anish Patankar, Joy Bose and Harshit Khanna. <i>A Bias Aware News Recommendation System.</i> Opponent: Charles Chen, Ohio University.
	125	Fabio Persia, Giovanni Pilato, Sven Helmer and Sergejs Pugacs. <i>Social Sensing for Improving the User Experience in Orienteering.</i> Opponent: P M Mahmudul Hassan, Arizona State University.
	134	Mahtab Ahmed, Muhammad Rifayat Samee and Robert Mercer. <i>Improving Tree-LSTM with Tree Attention.</i> Opponent: Naser Al Madi, Kent State University.
Session 7: Semantic Analysis (full paper: 20 min/paper) Session Chair: Giovanni Pilato	11	Hongyu Xiong and Ruixiao Sun. <i>GAN-Augmented Transferable Natural Language Interface to Structured Queries.</i>
	7	Aaron Sterling. <i>Ontology of Card Sleights.</i>
Session 8: Semantic Learning III (full paper: 20 min/paper)	17	Gaku Morio and Katsuhide Fujita. <i>Syntactic Graph Convolution in Multi-task Learning for Identifying and Classifying the Argument Component.</i>
	64	Qiong Wu, Wen-Ling Hsu, Tan Xu, Zhenming Liu, George Ma, Guy Jacobson and Shuai Zhao.

Session Chair: Michael Bloodgood		<i>Speaking with Actions - Learning Customer Journey Behavior.</i>
	66	Garrett Beatty, Ethan Kochis and Michael Bloodgood. <i>The Use of Unlabeled Data versus Labeled Data for Stopping Active Learning for Text Classification.</i>
	97	Hongzhao Guan and Alexander Lerch. <i>Learning Strategies for Voice Disorder Detection.</i>
Session 9: Semantic Applications IV (full paper: 20 min/paper short paper: 15 min/paper) Session Chair: Fatima Zohra Daha	89	Fatima Zohra Daha and Sanjika Hewavitharana. <i>Deep Neural Architecture with Character Embedding for Semantic Frame Detection.</i>
	118	Nhat Le, Ryan Rivas, James Flegal and Vagelis Hristidis. <i>Targeted Solicitation of Product Reviews.</i>
	120	Sameerah Talafha and Banafsheh Rekabdar. <i>Arabic Poem Generation with Hierarchical Recurrent Attentional Network.</i>
	124	Natthawut Kertkeidkachorn, Lihua Zhao, Xin Liu and Ryutaro Ichise. <i>Knowledge Representation of G-Protein-Coupled Receptor Signal Transduction Pathways.</i>
	143	Erfaneh Gharavi, Rupesh Silwal, Hadi Veisi and Matthew Gerber. <i>Siamese Discourse Structure Recursive Neural Network for Semantic Representation.</i>
Session 10.1: Semantic Applications V (short paper: 15 min/paper) Session Chair: Fabio Persia	26	Chen Zhou and Binbin Ruan. <i>Scale the Authoring of High Quality Lexicon Knowledge.</i>
	27	Amber Nigam, Prashik Sahare and Kushagra Pandya. <i>Intent Detection and Slots Prompt in a Closed-Domain Chatbot.</i>
	103	Mouzhi Ge and Fabio Persia. <i>Factoring Personalization in Social Media Recommendations.</i>
	121	Konstantina Bereta, Herve Caumont, Ulrike Daniels, Erwin Goor, Manolis Koubarakis, Despina-Athanasia Pantazi, George Stamoulis, Sam Ubels, Valentijn Venus and Firman Wahyudi. <i>Providing Satellite Data to Mobile Developers Using Semantic Technologies and Linked Data.</i>
	123	Feng Liu and Dingding Wang. <i>MVP: Finding the Most Valuable Posts in Financial Social Networks.</i>
	138	Scott Denning and Jugal Kalita. <i>The Coefficient of Synonymy Network with Policy Gradient for Text Summarization.</i>

Session 10.2: Semantic Analysis and Learning (short paper: 15 min/paper) Session Chair: Alexander Wachtel	9	Andrew Crapo and Abha Moitra. <i>Using OWL Ontologies as a Domain-Specific Language for Capturing Requirements for Formal Analysis and Test Case Generation.</i>
	21	Rahul Krishnamurthy and Michael Hsiao. <i>Controlled Natural Language Framework for Generating Assertions from Hardware Specifications.</i>
	28	Charles Chen, Sadegh Mirshekarian, Razvan Bunescu and Cindy Marling. <i>From Physician Queries to Logical Forms for Efficient Exploration of Patient Data.</i>
	33	Alexander Wachtel, Sophie Schulz and Walter F. Tichy. <i>Dialog-based Meaning Derivation Service For Technical Language Domains.</i>
	131	Maximilian Droog-Hayes, Geraint Wiggins and Matthew Purver. <i>Detecting summary-worthy sentences: the effect of discourse features.</i>
Resource Track (15 min/paper) Session Chair: Johannes Lipp	5	Saeedeh Shekarpour, Faisal Alshargiy, Krishnaprasad Thirunarayan, Valerie L. Shalinz, Amit Sheth. <i>CEVO: Comprehensive Event Ontology Enhancing Cognitive Annotation on Relations.</i>
	6	Aaron Sterling. <i>NodeJS and Angular Tools for JSON-LD.</i>
	10	Manas Gaur, Saeedeh Shekarpour, Amelie Gyrard, Amit Sheth. <i>empathi: An ontology for Emergency Managing and Planning about Hazard Crisis.</i>
	11	Nami Iino, Satoshi Nishimura, Takuichi Nishimura, Ken Fukuda , Hideaki Takeda. <i>The Guitar Rendition Ontology for Teaching and Learning Support.</i>
Workshop SCSN (15 min/paper) Session Chair: Giovanni Pilato	Seventh International Workshop on Semantic Computing for Social Networks and Organization Sciences	
	1	Patrick Kuiper, Karoline Hood. <i>Examining Sentiment Analysis when Evaluating Survey Responses.</i>
	4	Aleksey Panasyuk, Kishan Mehrotra and Edmund Yu. <i>Geocoding Performance on City-level Locations.</i>
	6	Aleksey Panasyuk, Kishan Mehrotra and Edmund Yu. <i>Augmenting Google Search in Ranking Twitter Users.</i>

	7	Sanjana Mendu, Mehdi Boukhechba, Anna Baglione, Sonia Bae, Congyu Wu and Laura Barnes. <i>Social Text: A Framework for Understanding the Relationship between Digital Communication Patterns and Mental Health.</i>
	8	Yu-Cheng Lin, Chun-Ming Lai, S. Felix Wu and George A. Barnett. <i>Globalness Detection in Online Social Network.</i>
	9	Fadi Muheidat, Robert Hughes, Mason Lee and Lo'Ai Tawalbeh. <i>Floor Based Sensors Walk Identification System Using Dynamic Time Warping With Cloudlet Support.</i>
	11	Terry Traylor, Jeremy Straub, Nicholas Snell and Chaudhary Gurmeet. <i>Identifying Fake News Articles Using Natural Language Processing to Identify "In-Article" Attribution as a Supervised Learning Estimator.</i>
	12	Adel Alshehri, Wainella Isaacs, Aseel Addawood, Maya Trotz and Sriram Chellappan. <i>Predicting Community Engagement on Twitter on Environmental Health Hazards.</i>
Workshop SML (15 min/paper) Session Chair: Hemant Purohit	Fifth International Workshop on Semantic Machine Learning	
	1	Sakala Venkata, Krishna Rohit. <i>Using Argumentative Semantic Feature for Summarization.</i>
	2	Felix Kuhr, Ralf Möller. <i>Constructing and Maintaining Corpus-driven Annotations.</i>
	4	Amanuel Alambo, Manas Gaur. <i>Question Answering for Suicide Risk Assessment using Reddit.</i>
	5	Hemant Purohit, Rajaraman Kanagasabai, Nikhil Deshpande. <i>Towards Next Generation Knowledge Graphs for Disaster Management.</i>
Workshop WAT (15 min/paper) Session Chair: Cristiane C. Gattaz	2	Débora C. Ferreira Garcia, Cristiane C. Gattaz, Paulo E. Cruvinel. <i>Information Retrieval: a case study on contributions of Greimasian semiotics to semantic computing in agriculture for knowledge management.</i>
	3	Sandra Carrico. <i>MIXED FORMAL LEARNING: A Path to Transparent Machine Learning.</i>

