INVITED SPEAKERS

KEYNOTE SPEAKERS

Enterprise Ontologies - Emerging Issues from the Internet of Things and Social Media
Daniel O'Leary

Extracting Semantically Enriched Events from the Literature
Sophia Ananiadou

Parallel Coordinates - Visual Multidimensional Geometry and Its Applications
Alfred Inselberg

Challenges in the Core of Ontology Support Systems
Peter F. Patel-Schneider

Internet of Things – Towards New Frontiers of Knowledge Management
Florian Michahelles

PAPERS

FULL PAPERS

Categorization of Very Short Documents
Mika Timonen

Finite Belief Fusion Model for Hidden Source Behavior Change Detection
Eugene Santos Jr., Qi Gu, Eunice E. Santos and John Korah

Model Selection and Stability in Spectral Clustering
Zeev Volkovich and Renata Avros

Yishu Miao, Chumping Li, Hui Wang and Lu Zhang

A Semi-supervised Learning Framework to Cluster Mixed Data Types
Artur Abdullin and Olfa Nasraoui

User based Collaborative Filtering with Temporal Information for Purchase Data
Maunendra Sankar Desarkar and Sudeshna Sarkar

Guided Exploratory Search on the Mobile Web
Günter Neumann and Sven Schmeier

Probabilistic Sequence Modeling for Recommender Systems
Nicola Barbieri, Antonio Bevacqua, Marco Carnuccio, Giuseppe Manco and Ettore Ritacco

A Unified Approach for Context-sensitive Recommendations
Mihaela Dinsoreanu, Florin Cristian Macicasan, Octavian Lucian Hasna and Rodica Potolea

String Searching in Referentially Compressed Genomes
Sebastian Wandelt and Ulf Leser

Robust Template Identification of Scanned Documents
Xiaofan Feng, Abdou Youssef and Sithu Sudarsan
Formal Concept Analysis for the Interpretation of Relational Learning Applied on 3D Protein-binding Sites

Emmanuel Bresso, Renaud Grisoni, Marie-Dominique Devignes, Amedeo Napoli and Malika Small-Tabbone

SHORT PAPERS

Extracting Structure, Text and Entities from PDF Documents of the Portuguese Legislation

Nuno Moniz and Fátima Rodrigues

Comparative Study of Collaborative Filtering Algorithms

Bharat Bhasker

The Difficulty of Path Traversal in Information Networks

Frank W. Takes and Waleri A. Kosters

Unsupervised Discovery of Significant Candlestick Patterns for Forecasting Security Price Movements

Karsten Martiny

A New Query Suggestion Algorithm for Taxonomy-based Search Engines

Roberto Zanon, Simone Albertini, Moreno Carullo and Ignazio Gallo

Interactive Visualization of a News Clips Network - A Journalistic Research and Knowledge Discovery Tool

José Devezas and Álvaro Figueira

Contextual Approaches for Identification of Toponyms in Ancient Documents

Hendrik Schöneberg and Frank Müller

Lanna Dharma Printed Character Recognition using k-Nearest Neighbor and Conditional Random Fields

Chutima Chueaphun, Atcharin Klomsae, Sanparith Manikatat and Jeerayut Chaijarawanich

Factor Analysis and the Retrieval of Medical Images Depicting Structures with Similar Shapes

Alexei Manso Correa Machado

Search Result Summaries Improved by Structure and Multimedia

Brent Wenerstrom and Mehmed Kantardzic

Adaptation of the User Navigation Scheme using Clustering and Frequent Pattern Mining Techniques for Profiling

Olatz Arbelaitz, Iboi Gurutxaga, Aízrea Lojo, Javier Muguerza, Jesús M. Pérez and Iñigo Perona

Collaborative Filtering based on Sentiment Analysis of Guest Reviews for Hotel Recommendation

Fumiyo Fukumoto, Chihiro Motegi and Suguru Matsuyoshi

Friendship Prediction using Semi-supervised Learning of Latent Features in Smartphone Usage Data

Yuka Ikebe, Masaji Katagiri and Haruo Takemura

Some Empirical Evaluations of a Temperature Forecasting Module based on Artificial Neural Networks for a Domotic Home Environment

F. Zamora-Martinez, P. Romeu, J. Pardo and D. Tormo

Constraint-programming Approach for Multiset and Sequence Mining

Pablo Gay, Beatriz López and Joaquim Meléndez
Are Related Links Effective for Contextual Advertising? - A Preliminary Study
Giuliano Armano, Alessandro Giuliani and Eloisa Vargiu

An Efficient Strategy for Spatio-temporal Data Indexing and Retrieval
Antonio d'Acierno, Marco Leone, Alessia Saggese and Mario Vento

Parsing and Maintaining Bibliographic References - Semi-supervised Learning of Conditional Random Fields with Constraints
Sebastian Lindner and Winfried Hohn

Exploiting Social Networks for Publication Venue Recommendations
Hiep Luong, Tin Huynh, Susan Gauch and Kiem Hoang

Automatically Extracting Complex Data Structures from the Web
Laura Fontán, Rafael López-García, Manuel Álvarez and Alberto Pan

A Game-Theoretic Framework to Identify Top-K Teams in Social Networks
Maryam Sorkhi, Hamidreza Alvari, Sattar Hashemi and Ali Hamzeh

BINGR: Binary Search based Gaussian Regression
Harshit Dubey, Saket Bharambe and Vikram Pudi

An Order-invariant Time Series Distance Measure - Position on Recent Developments in Time Series Analysis
Stephan Spiegel and Sahin Albayrak

New Directions in the Analysis of Social Network Dynamics
Shahadat Uddin, Simon Reay Atkinson and Liaquat Hossain

Undermining - Social Engineering using Open Source Intelligence Gathering
Leslie Ball, Gavin Ewan and Natalie Coull

Polytope Model for Extractive Summarization
Marina Litvak and Natalia Vanetik

Enhancing a Web Usage Mining based Tourism Website Adaptation with Content Information
Olatz Arbelaitz, Ibai Gurrutxaga, Aizea Lojo, Javier Muguerza, Jesús M. Pérez and Ihigo Perona

Evidence Accumulation Clustering using Pairwise Constraints
João M. M. Duarte, Ana L. N. Fred and F. Jorge F. Duarte

An Interests Discovery Approach in Social Networks based on a Semantically Enriched Bayesian Network Model
Akram Al-Kouz and Sahin Albayrak

Addressing the Problem of Unbalanced Data Sets in Sentiment Analysis
Asmaa Mountassir, Houda Benbrahim and Ilham Berrada

**POSTERS**

Predicting the Efficiency with Knowledge Discovery of a Budgeted Company: A Cuban University - Validation through Three Semesters
Libia I. García, Iisel Grau and Ricardo Grau

Product Assortment Decisions for a Network of Retail Stores using Data Mining with Optimization
Sudip Bhattacharjee, Fidan Boylu and Ram Gopal
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SPECIAL SESSION ON TEXT MINING

FULL PAPERS

Improving Toponym Disambiguation by Iteratively Enhancing Certainty of Extraction
Mena B. Habib and Maurice van Keulen

Informativeness-based Keyword Extraction from Short Documents
Mika Timonen, Timo Toivanen, Yue Teng, Chao Chen and Liang He

SHORT PAPERS

Contextual Latent Semantic Networks used for Document Classification
Ondrej Hava, Miroslav Skrbek and Pavel Kordík

Liliana Medina, Ana L. N. Fred, Rui Rodrigues and Joaquim Filipe

SPECIAL SESSION ON INFORMATION FILTERING AND RETRIEVAL: NOVEL DISTRIBUTED SYSTEMS AND APPLICATIONS

FULL PAPERS

A New Structure-based Similarity Measure for Automatic Ontology Matching
Thi Thuy Anh Nguyen and Stefan Conrad

Visitors and Contributors in Wikipedia
Antonio J. Reinoso, Juan Ortega-Valiente, Rocio Muñoz-Mansilla and Gabriel Pastor

Geometric Encoding of Sentences based on Clifford Algebra
Agnese Augello, Manuel Gentile, Giovanni Pilato and Giorgio Vassallo

Predicate Argument Structures for Information Extraction from Dependency Representations - Null Elements are Missing
Rodolfo Delmonte

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