Special Issue on the Emergence of Humanistic Digital Data in Informatics

The ever increasing amount of digital data retrieved from or related to computational tasks associated to the broad area of Humanities imposes interesting research challenges with respect to its efficient processing and analysis. The aim of this Special Issue is two-fold: to analyze digital data and extract the underlying knowledge they inherit in order to better understand the human behavior associated to the respective computational tasks with creativity, way of thinking, reasoning, learning, decision making, socializing and even biological processes; to exploit the extracted knowledge by incorporating it into intelligent systems that will support humans in their everyday activities.

Aim and topics

As a result, the proposed Special Issue aims to bring together interdisciplinary approaches focusing on the application of innovative, as well as existing, data handling, in terms of data matching & fusion, data mining, knowledge discovery & management techniques, like, for instance, but not limited to: decision rules, decision trees, association rules, ontologies and alignments, clustering, filtering, learning, classifier systems, neural networks, support vector machines, preprocessing, post processing, feature selection, visualization techniques.

Topics of interest include but are not limited to:

Humanistic data collection and interpretation
Recommender systems
Bioinformatics
Data pre-processing
Web sentiment analysis
Content creation, annotation and modeling for semantic and social web
Feature selection methodologies
Social data mining
Computational intelligence for media adaptation and personalization
Supervised or unsupervised learning of humanistic knowledge
Data visualization techniques
Semantics-driven indexing and retrieval of multimedia contents
Clustering/Classification techniques

Integration of data mining results into real-world applications with humanistic context
Semantic context modeling and extraction
Fuzzy modeling
Ontologies, ontology matching and alignment
Context-aware applications
Heterogeneous data fusion
Mining humanistic data in the cloud
Social web economics and business
Knowledge representation and reasoning
Game data mining
Privacy/security issues in social and personalized applications
Knowledge management
Virtual-world data mining

Privacy preserving data mining and social networks
Linguistic data mining
Speech and audio data processing
Social data analytics
Educational data mining
Data mining techniques for knowledge discovery
Biomedical data mining
Music information retrieval
Precision agriculture
Behavior prediction
Data-driven profiling/ personalization
Data mining techniques for intelligent agriculture
Sensor-based data mining
User modeling

Interested authors need to submit their papers according to the following schedule:

July 1, 2018: Paper submission deadline. PDF format with MS word or LaTex source to ICT Express website
August 31, 2018: Reviews returned to authors
October 1, 2018: Final revised manuscript due

October 15, 2018: Final Decision Due
December 31, 2018: Publication date

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Papers' submission:

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