



23rd International
Database Engineering & Applications
Symposium

IDEAS 2019

10 – 12 June, 2019

Harokopio University
Athens, Greece



ConfSys.org



**HAROKOPIO
UNIVERSITY**

Program Overview				
Time	Day 1	Day 2	Day 3	
09:00	IDEAS Welcome	Invited talk II	S5 - Bio-informatics and Health informatics	
09:30	Invited talk I			
10:00		coffee break	coffee break	
10:30	coffee break	S4 - Data Mining, OLAP and Knowledge Discovery	coffee break	
11:00	S1 - Data Analytics		SS4 - Big Data and Climate Change Impact	S6 - Big Data and applications - 2
11:30				
12:00		lunch break		
12:30		lunch break	SS2 - Privacy in Age of Information	SS3 - Data Sharing, security and privacy
13:00				
13:30	S2 -- Data mining – Pattern generation	coffee break	coffee break	
14:00				
14:30	S3 - Big Data and applications -1	SS1 - Distributed Ledger Technologies/ Blockchain	S7 - Big Data - privacy and security	
15:00				
15:30				coffee break
16:00				
16:30	End of Sessions	Departure for Acropolis Museum	End of the Conference	
17:00				
17:30				
18:00	Departure for Welcome Cocktail	Acropolis Museum Tour		
18:30	Welcome Cocktail			
19:00				
20:30	Conference Dinner			

Session: Welcome and Invited Talk I	2019-06-10 (09:00 10:30)	Ceremonial Hall
Chair:	Dimosthenis Anagnostopoulos	
Novel Paradigms for engineering large-scale resilient IoT Systems (Invited Paper)	Schahram Dustdar	
Session: S1 - Data analytics	2019-06-10 (11:00 13:00)	Ceremonial Hall
Chair:	Schahram Dustdar	
Exploratory Data Analysis and Crime Prediction for Smart Cities(Full Paper)	Isha Pradhan, Katerina Potika, Magdalini Eirinaki, Petros Potikas	
Unsupervised Context Extraction via Region Embedding for Context-Aware Recommendations(Full Paper)	Padipat Sitkrongwong, Atsuhiko Takasu	
Supervised Learning Methods Application to Sentiment Analysis(Full Paper)	Sergio Altares López, Juan J. Cuadrado-gallego	
On Approximate Nesting of Multiple Social Network Graphs: a preliminary study (Short Paper)	Giacomo Bergami, Flavio Bertini, Danilo Montesi	
An Neo4j Implementation for Designing Fuzzy Graph Databases(Short Paper)	Bruno Ponsoni Costa, Luis Mariano Del Val Cura	
Session: S2 - Data mining - pattern generation	2019-06-10 (14:00 – 15:30)	Ceremonial Hall
Chair:	Carson K. Leung	
A data mining approach for predicting main-engine rotational speed from vessel speed measurements(Full Paper)	Dimitrios Kaklis, George Giannakopoulos, Iraklis Varlamis, Constantine D. Spyropoulos, Takis John Varelas	
Data Mining Ancient Scripts to Investigate their Relationships and Origins(Full Paper)	Shruti Daggumati, Peter Z. Revesz	
On the Appropriate Pattern Frequentness Measure and Pattern Generation Mode - A critical review(Full Paper)	Tongyuan Wang, Bipin C. Desai	
Session: S3 - Big Data and applications -1	2019-06-10 (16:00 18:00)	Ceremonial Hall
Chair:	Peter Z. Revesz	
Database system comparison based on spatiotemporal functionality (Full Paper)	Antonios Makris, Konstantinos Tserpes, Dimosthenis Anagnostopoulos, Mara Nikolaidou, Jose Antônio Fernandes De Macedo	
Simplified Data Posting in Practice (Full Paper)	Elio Masciari, Domenico Sacca', Irina Trubitsyna	
A fast solution for bi-objective traffic minimization in geo-distributed data flows (Full Paper)	Anna-Valentini Michailidou, Anastasios Gounaris	
VISEN: A Video Interactive Retrieval Engine Based on Semantic Network in large video collections (Full Paper)	Mohamed Hamroun, Sonia Lajmi, Henri Nicolas, Ikram Amous	
Session: Invited Talk II -1	2019-06-11 (09:00 – 10:00)	Ceremonial Hall
Chair:	Yannis Manolopoulos	
The Homomorphism Property in Query Containment and Data Integration (Invited Paper)	Foto N Afrati	
Session: S4 - Data Mining, OLAP, and Knowledge Discovery	2019-06-11 (10:30 – 12:00)	Ceremonial Hall
Chair:	Foto N Afrati	
Weight assignment on edges towards improved community detection (Full Paper)	Dora Souliou, Petros Potikas, Katerina Potika, Aris Pagourtzis	
Discovering Complex Temporal Dependencies from heterogeneous sensor data streams (Full Paper)	Amine El Ouassouli, Lionel Robinault, Vasile-marian Scuturici	
EQL-CE: An Event Query Language for Connected Environments (Full Paper)	Elio Mansour, Richard Chbeir, Philippe Arnould	

Session: SS4 - Big Data and Climate Change Impact	2019-06-11 (12:00 – 12:30)	Ceremonial Hall
Chair: Bipin C. Desai		
Climate Change Data Analysis: Case study of Banana in the French West Indies (Short Paper)		
Nathan Jadoul, Erick Stattner		
DWS: a data placement approach for Smart Grid Ecosystems (Short Paper)		
Asma Zgolli, Christophe Bobineau, Christine Collet		
Session: SS2 - Privacy In Age of Information	2019-06-11 (13:30 – 15:00)	Ceremonial Hall
Chair: Elio Masciari		
Privacy In the Age of Information (and Algorithms)(Full Paper)		
Bipin C. Desai		
An Effective Algorithm for Learning Single Occurrence Regular Expressions with Interleaving(Full Paper)		
Yeting Li, Haiming Chen, Xiaolan Zhang, Lingqi Zhang		
Open Government Data usage: a brief overview(Full Paper)		
Alfonso Quarati, Monica De Martino		
Session: SS1- Distributed Ledger Technologies/ Blockchain	2019-06-11 (15:30 – 17:45)	Ceremonial Hall
Chair: Dimitrios Michail		
Enabling Propagation in Web of Trust by Ethereum (Full Paper)		
Francesco Buccafurri, Lorenzo Musarella, Roberto Nardone		
Virtual Private Ledgers: Embedding Private Distributed Ledgers over a Public Blockchain by means of Cryptography (Full Paper)		
Antonio Arena, Pericle Perazzo, Gianluca Dini		
Studying forward looking bubbles inBitcoin/USD exchange rates (Full Paper)		
Stefano Bistarelli, Gianna Figà Talamanca, Francesco Lucarini, Ivan Mercanti		
Blockchain-based Risk Mitigation for Invoice Financing (Full Paper)		
Meriem Guerar, Luca Verderame, Alessio Merlo, Mauro Migliardi		
Blockchain-based Micropayment Systems: Economic Impact (Poster)		
Nida Khan, Tabrez Ahmad, Radu State		
A Machine-Learning Framework for Supporting Intelligent Web-Phishing Detection and Analysis (Poster)		
Alfredo Cuzzocrea, Fabio Martinelli, Francesco Mercaldo		
Session: S5 - Bio-informatics and Health informatics	2019-06-12 (09:00 – 10:30)	Ceremonial Hall
Chair: Sotirios Kontogiannis		
Classification of eye-state using single time-point EEG recordings, across the scalp (Full Paper)		
Phoebe May Asquith, Hisham Ihshaish		
Meta-Data Management and Quality Control for the Medical Informatics Platform (Full Paper)		
Admir Demiraj, Kostis Karozos, Iosif Spartalis, Vasilis Vassalos		
On Discovering Relevant Features for Tongue Colored Image Analysis (Full Paper)		
Ester Zumpano, Eugenio Vocaturo, Pierangelo Veltri		
Session: S6 - Big Data and applications - 2	2019-06-12 (11:00 – 13:00)	Ceremonial Hall
Chair: Mohamed Nassar		
Differentially Private Sequential Pattern Mining considering Time Interval for Electronic Medical Record Systems (Full Paper)		
Hieu Hanh Le, Muneo Kushima, Kenji Araki, Haruo Yokota		
HSSN: An Ontology for Hybrid Semantic Sensor Networks (Full Paper)		
Elio Mansour, Richard Chbeir, Philippe Arnould		
A Spatial Index for Hybrid Storage (Full Paper)		
Athanasios Fevgas, Panayiotis Bozanis		
The Design and Implementation of AIDA: Ancient Inscription Database and Analytics System (Short Paper)		
Peter Z. Revesz, M Parvez Rashid, Yves Tuyishime		
Indexing large updatable Datasets in Multi-Version Database Management Systems (Short Paper)		
Christian Riegger, Tobias Vinçon, Ilia Petrov		

Chair: Hoda Mehrpouyan

A New Malware Detection System Using a High Performance-ELM method (Full Paper)

Shahab Shamshirband, Anthony Theodore Chronopoulos

Transfer Learning for Malware Multi-Classification (Full Paper)

Mohamad Al Kadri, Mohamed Nassar, Haidar Safa

Anonymously forecasting the number and nature of firefighting operations (Full Paper)

Jean-francois Couchot, Christophe Guyeux, Guillaume Royer

Chair: George Dimitrakopoulos

Ant-Driven Clustering for Utility Aware Disassociation of Set-Valued Datasets (Full Paper)

Nancy Awad, Jean-francois Couchot, Bechara Al Bouna, Laurent Philippe

Formal Specification and Verification of User-centric Privacy Policies for Ubiquitous Systems (Full Paper)

Hoda Mehrpouyan, Rezvan Joshaghani, Elena Sherman, Stacy Black

Pattern mining for knowledge discovery (Short Paper)

Carson K. Leung

Chi Squared Feature Selection over Apache Spark (Short Paper)

Mohamed Nassar, Haidar Safa, Alaa Almutawa, Ahmed Helal, Iskander Gaba

Performance evaluation on encrypted – non encrypted database fields containing IoT data (Poster)

Sotirios Kontogiannis, Christodoulos Asiminidis, Ioannis Georgiadis, Dimitrios Syndoukas, George Kokkonis

A Genetic Algorithm for Discriminative Graph Pattern Mining (Poster)

Karel Vaculík, Luboš Popelínský

sElect: Secure Election as a Service (Poster)

Mohamed Nassar, Bassel Rawda, Mohamed Mardini

June 10: Morning break 10:30 –11:00, Lunch 13:00 – 14:00 Afternoon break 15:30-16:00 Reception: 18:00-20:00

June 11: Morning break 10:00 –10:30, Lunch 12:30 – 13:30 Afternoon break 15:00-15:30 Departure ,Tour, Dinner: 18:00-22:30

June 12: Morning break 10:30 –11:00, Lunch 13:00 – 14:00 Afternoon break 15:30-16:00 Goodbye till next year 18:00

