



23rd International  
Database Engineering & Applications  
Symposium

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**IDEAS 2019**

10 – 12 June, 2019

Harokopio University  
Athens, Greece

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ConfSys.org



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Program Overview			
Time	Day 1	Day 2	Day 3
08:30		Registration	
09:00	IDEAS Welcome	Invited talk II	S5 - Bio-informatics and Health informatics
09:30	Invited talk I		
10:00			coffee break
10:30	coffee break	S4 - Data Mining, OLAP and Knowledge Discovery	coffee break
11:00	S1 - Data Analytics		
11:30			
12:00			SS4 - Big Data and Climate Change Impact
12:30		lunch break	
13:00	lunch break	SS2 - Privacy in Age of Information	lunch break
13:30			
14:00	S2 -- Data mining – Pattern generation	coffee break	SS3 - Data Sharing, security and privacy
14:30			
15:00			
15:30	coffee break	SS1 - Distributed Ledger Technologies/ Blockchain	coffee break
16:00	S3 - Big Data and applications -1		
16:30			
17:00			S7 - Big Data - privacy and security
17:30			
18:00	End of Sessions	Departure for Acropolis Museum	End of the Conference
18:30	Departure for Welcome Cocktail	Acropolis Museum Tour	
19:00	Welcome Cocktail		
20:30			Conference Dinner

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

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



