



## DATE

July 8 - 9 2019 | Athens, Greece

## VENUE

Royal Olympic Hotel, Panorama Hall

# DAY 1



8:45-9:20	REGISTRATION
9:20-9:30	OPENING REMARKS  Georgia Koutrika (ATHENA Research and Innovation Center)  Theodore Dalamagas (ATHENA Research and Innovation Center)
9:30-10:00	KEYNOTE 1 Alkis Polyzotis (Google)
10:00–11:00	SESSION 1 RDF, Recommendations and Data Preparation
11:00-11:30	BREAK
11:30-13:00	SESSION 2 Systems and Indexing
13:00-14:30	LUNCH BREAK
14:30-15:15	KEYNOTE 2 (AWARDS) Anastasia Ailamaki (EPFL)
15:15-15:30	INDUSTRY TALK 1 Oracle
15:30-16:30	SESSION 3 Entrepreneurship Panel
16:30-17:00	BREAK
17:00-19:00	SESSION  Startups and demos Flash Talks Startups (18 min) Flash Talks Demos (21 min) Poster Session with Startups and Demos
19:00	START MOVING TO DINNER
20:00	DINNER

# DAY 2



8:50	ACM W CHAPTER
9:00-9:30	KEYNOTE 3 Kostas Tzoumas (Data Artisans)
9:30-10:30	SESSION 5 Transformations and Anomaly detection
10:30-11:00	BREAK
11:00-12:45	SESSION 6 Big Data, Graphs, and GPUs
12:45-14:00	LUNCH BREAK
14:00-15:45	SESSION 7 Research Flash Talks and Position Statements
15:45-16:15	BREAK
16:15-16:30	INDUSTRY TALK 2 IBM
16:30-17:30	AI/DB PANEL
17:30	CLOSING REMARKS



RDF, Recommendations and Data Preparation

### TITLE

Exploring RDFS KBs Using Summaries

### **AUTHORS**

Georgia Troullinou FORTH-ICS Haridimos Kondylakis FORTH-ICS Kostas Stefanidis Tampere University Dimitris Plexousakis FORTH-ICS

### VENUE

International Semantic Web Conference (ISWC) 2018



Gravitating to Rigidity: Patterns of Schema Evolution -and its Absence- in the Lives of Tables

Avni Gulati San Jose State University Magdalini Eirinaki San Jose State University

Panos Vassiliadis University of Ioannina Apostolos V. Zarras University of Ioannina Ioannis Skoulis Bouvet ASA, Oslo

WWW 2019

Information Systems 2017

Feedback Driven Improvement of Data Preparation Pipelines

Nikolaos Konstantinou University of Manchester Norman Paton University of Manchester

21st International Workshop on Design, Optimization, Languages and Analytical Processing of Big Data colocated with EDBT/ICDT Joint Conference (EDBT/ICDE 2019)



Systems and Indexing 15min talks

### TITLE

Query Fresh: Log Shipping on Steroids

### AUTHORS

Tianzheng Wang University of Toronto Ryan Johnson LogicBlox Ippokratis Pandis Amazon

#### VENUE

**VLDB 2018** 

Hardware-conscious Hash-Joins on GPUs

Panagiotis Sioulas

**EPFL** 

Periklis Chrysogelos

**EPFL** 

Manos Karpathiotakis

Facebook

Raja Appuswamy

Eurecom

Anastasia Ailamaki

**EPFL** 

35th IEEE International Conference on Data Engineering (ICDE 2019)

An Efficient Index for RDF Query Containment

Theofilos Mailis

National and Kapodistrian

University of Athens

Yannis Kotidis

Athens University of Economics

and Business

Vaggelis N Nikolopoulos

National and Kapodistrian

University of Athens

**Evgeny Kharlamov** 

University of Oslo

Ian Horrocks

University of Oxford

Yannis Ioannidis

National and Kapodistrian

University of Athens

ACM SIGMOD 2019

HetExchange: Encapsulating heterogeneous CPU-GPU parallelism in JIT compiled engines

Periklis Chrysogelos

EPFL

Manos Karpathiotakis

Facebook

Raja Appuswamy

Eurecom

Anastasia Ailamaki

EPFL

Proceedings of the VLDB Endowment 2019

Coconut: A Scalable Bottom-Up Approach for Building Data Series Indexes Haridimos Kondylakis

FORTH-ICS

Niv Dayan

Harvard University

Kostas Zoumpatianos

Harvard University

Themis Palpanas

Paris Descartes University

VLDB 2018

The Data Calculator\*: Data Structure Design and Cost Synthesis from First Principles and Learned Cost Models

Stratos Idreos Harvard University Kostas Zoumpatianos Harvard University Brian N Hentschel Harvard University Michael Kester Harvard University Demi Guo Harvard College

ACM SIGMOD 2018

## **INDUSTRY TALK 1**

#### ORACLE

Giannis Orsaris

Master Principal Solution Engineer Data Management, Oracle Hellas

TITLE: Oracle Autonomous Data Platform



Entrepreneurship Panel

### MODERATOR

Kostas Tzoumas Data Artisans

### PARTICIPANTS

Anastasia Ailamaki

CEO Raw labs

Panos Papadopoulos

Marathon Venture Capital

Chris Kachris

CEO, Inaccel

Costa Tsaousis

CEO. Netdata



Flash Talks Startups

- > My-Netdata (https://my-netdata.io) > Arrikto (https://www.arrikto.com)
- Lenses (https://lenses.io)
- > Inaccel (https://www.inaccel.com)
- RAW Labs (https://www.raw-labs.com)
- > Marathon (https://marathon.vc)

### FLASH TALKS DEMOS

The return of JedAl: End-to-End Entity Resolution for Structured and Semi-Structured Data

#### George Papadakis

National and Kapodistrian

University of Athens

Leonidas Tsekouras

NCSR "Demokritos"

**Emmanouil Thanos** 

University of Leuven

George Giannakopoulos

IIT Demokritos

Themis Palpanas

Paris Descartes University

Manolis Koubarakis

National and Kapodistrian

University of Athens

**PVLDB 2018** 

IVLG: Interactive Visualization of Large Graphs

Maria K Krommyda

National Technical University of Athens

Verena Kantere

University of Ottawa

Yannis Vassiliou

National Technical University of Athens

IEEE 35th International Conference on Data Engineering (ICDE 2019)

Apollo: A Dataset Profiling and Operator Modeling System

Tasos Bakogiannis

National Technical University of Athens

Ioannis Giannakopoulos

National Technical University of

**Dimitrios Tsoumakos** 

Ionian University

Nectorios Koziris

National Technical University of Athens

ACM SIGMOD 2019

Time-aware Sub-Trajectory Clustering in Hermes@ PostgreSQL Panagiotis Tampakis

University of Piraeus

Nikos Pelekis

University of Piraeus

Natalia Andrienko

Fraunhofer, DE

Gennady Andrienko

Fraunhofer, DE

Georg Fuchs

Fraunhofer, DE

Yannis Theodoridis

University of Piraeus

IEEE 34th International Conference on Data Engineering (ICDE 2018)

Demo: Maritime Event Recognition Manolis N Pitsikalis

NCSR "Demokritos"

Alexander Artikis

University of Piraeus

**DEBS 2019** 

Coconut Palm: Static and Streaming Data Series Exploration Now in your Palm Haridimos Kondylakis

FORTH-ICS

Niv Dayan

Harvard University

Kostas Zoumpatianos

Harvard University

Themis Palpanas

Paris Descartes University

ACM SIGMOD 2019 (to appear)

## SESSIONS 4 5

Database Search Systems through THOR's Eyes

Orest Gkini
National and Kapodistrian
University of Athens
Georgia Koutrika
Athena Research Center
Theofilos Belmpas
National and Kapodistrian
University of Athens

5

Transformations and Anomaly detection

### TITLE

Attacking Diophantus: Solving a Special Case of Bag Containment

### **AUTHORS**

George Konstantinidis
University of Southampton
Fabio Mogavero
Università degli Studi di Napoli
Federico II

### VENUE

ACM PODS 2019

SynthEdit: Format

transformations by example using edit operations

Alex Bogatu

University of Manchester Alvaro A.A. Fernandes University of Manchester Norman W. Paton University of Manchester Nikolaos Konstantinou University of Manchester 22nd International Conference on Extending Database Technology (EDBT 2019)

Sail one

SciLens: Evaluating the Quality of Scientific News Articles Using Social Media and Scientific Literature Indicators

Panayiotis Smeros

FPFI

Carlos Castillo

UPF

Karl Aberer

**EPFL** 

WWW 2019

Deep Anomaly Detection

Emmanuel Müller

University of Bonn & Fraunhofer

IAIS

35th International Conference on Machine Learning (ICML 2018)



Big Data, Graphs, and GPUs
15min talks

### TITLE

Large Scale Sentiment Learning with Limited Labels

GPU Rasterization for Real-Time Spatial Aggregation over Arbitrary Polygons

Scalable Parallelization of RDF Joins on Multicore Architectures

Risk-averse graph mining

Automated Audience Segmentation Using Reputation Signals

### **AUTHORS**

Vasileios Iosifidis L3S Research Center / Leibniz University of Hannover Eirini Ntoutsi L3S Research Center

Eleni Tzirita Zacharatou FPFI

Harish Doraiswamy New York University Anastasia Ailamaki

EPFL

Cl audio T. Silva

EPFL

Juliana Freire

New York University

Dimitris Bilidas

National and Kapodistrian University of Athens

Manolis Koubarakis National and Kapodistrian University of Athens

Charalampos Tsourakakis

Boston University

Shreyas Sekar

University of Washington

Johnson Lam

Boston University

Liu Yang

Yale University

Maria Daltayanni

University of San Francisco

Ali Dasdan

KD Consulting

Luca de Alfaro

University of California, Santa Cruz

ork University

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VENUE

**VLDB 2018** 

ACM SIGKDD 2017

22nd International Conference on Extending Database Technology (EDBT 2019)

ECML PKDD 2018

ACM SIGKDD 2018

## SESSIONS 6 7

Event and Sub-Event Detection in Social Networks

Antonia Saravanou
National and Kapodistrian
University of Athens
Ioannis Katakis
University of Nicosia
George Valkanas
Detectica
Dimitrios Gunopulos
National and Kapodistrian
University of Athens

34th IEEE International Conference on Data Engineering (ICDE 2018)

Functional Geometric Monitoring for Distributed Streams

Vasilis Samoladas Technical University of Crete Minos Garofalakis Technical University of Crete 22nd International Conference on Extending Database Technology (EDBT 2019)



Research Flash Talks and Position Statements

### TITLE

RawVis: Visual exploration over raw data

#### AUTHORS

Nikos Bikakis
University of Ioannina
Stavros Maroulis
Athena Research Center
George Papastefanatos
Athena Research Center
Panos Vassiliadis
University of Ioannina

### VENUE

22nd European Conference on Advances in Databases and Information Systems (ADBIS 2018) -Best Paper Award-



#### Giovanni Simonini

University of Modena and Reggio Emilia

#### George Papadakis

National and Kapodistrian University of Athens

#### Themis Palpanas

Paris Descartes University

#### Sonia Bergamaschi

University of Modena and Reggio Emilia IEEE Transactions on Knowledge and Data Engineering (TKDE) 2019

## SESSIONS \_\_\_

Maintaining Wavelet Synopses for Sliding-Window Aggregates

Ioannis Mytilinis

National Technical University of Athens

**Dimitrios Tsoumakos** 

Ionian University

**Nectorios Koziris** 

National Technical University of Athens

ACM SSDBM 2019

Corridor Learning Using Individual Trajectories

Nikolaos Zygouras

National and Kapodistrian University of Athens

Dimitrios Gunopulos

National and Kapodistrian University of Athens 19th IEEE International Conference on Mobile Data Management (MDM 2018)

A Content-Based Approach for Modeling Analytics Operators

Ioannis Giannakopoulos

National Technical University of Athens

**Dimitrios Tsoumokos** 

Ionian University

**Nectorios Koziris** 

National and Kapodistrian University of Athens ACM International Conference on Information and Knowledge Management (CIKM) 2018

Semantic-aware Aircraft Trajectory Prediction using Flight Plans Harris Georgiou

University of Piraeus

Nikos Pelekis

University of Piraeus

Stylianos Sideridis

University of Piraeus

David Scarlatti

Boeing Research & Technology

Europe

Yannis Theodoridis

University of Piraeus

International Journal of Data Science and Analytics (IJDSA), (online / in press)

Hot Spot Analysis over Big Trajectory Data Panagiotis Nikitopoulos

University of Piraeus

Aris-Iakovos Paraskevopoulos

University of Piraeus

Christos Doulkeridis

University of Pireaus

Nikos Pelekis

University of Piraeus

Yannis Theodoridis

University of Piraeus

IEEE BigData 2018

## SESSIONS \_\_\_

ORiON: Online ResOurce Negotiator for multiple Big Data Analytics frameworks

#### Nikos Zacheilas

Athens University of Economics and Business

#### Nikolaos Chalvantzis

National Technical University of Athens

#### Ioannis Konstantinou

National Technical University of Athens

#### Vana Kalogeraki

Athens University of Economics and Business

#### **Nectorios Koziris**

National Technical University of Athens

IEEE ICAC 2018

Notable Characteristics Search through Knowledge Graphs

#### Davide Mottin

Hasso Plattner Institute

#### Bastian Grasnic

Hasso Plattner Institute

#### Axel Krosch

Hasso Plattner Institute

#### Patrick Siegler

Hasso Plattner Institute

#### Emmanuel Müller

University of Bonn & Fraunhofer IAIS

21st International Conference on Extending Database Technology (EDBT 2018)

Two-hop privacy-preserving nearest friend searches

Alexandros Karakasidis

University of Macedonia

#### George Pallis

University of Cyprus

#### Marios Dikaiakos

University of Cyprus

Knowledge and Information Systems

Identifying Bias in Name Matching Tasks Alexandros Karakasidis

University of Macedonia

Evaggelia Pitoura

University of Ioannina

22nd International Conference on Extending Database Technology (EDBT 2019)

Named Entity Recognition, Linking and Generation for Greek Legislation

**losif Angelidis** 

National and Kapodistrian University of Athens

Ilias Chalkidis

Athens University of Economics and Business, Greece

Manolis Koubarakis

National and Kapodistrian University of Athens

31st International Conference on Legal Knowledge and Information Systems (JURIX 2018)

Incremental Event Calculus for Run-Time Reasoning

Efthimis Tsilionis

NCSR "Demokritos"

Alexander Artikis

University of Piraeus

Paliouras Georgios

NCSR "Demokritos"

13th ACM International Conference on Distributed and Event-Based Systems (DEBS 2019)

DERP: A Deep Reinforcement Learning Cloud System for Elastic Resource Provisioning

Constantinos Bitsakos

National Technical University of

Athens

Ioannis Konstantinou

National Technical University of

Athens

**Nectorios Koziris** 

National Technical University of **Athens** 

CloudCom 2018

Realizing Memory-Optimized Distributed Graph Processing Panagiotis Liakos

National and Kapodistrian University of Athens

Katia Papakonstantinopoulou

Athens University of Economics and Business

Alex Delis

National and Kapodistrian University of Athens

IEEE Transactions on Knowledge and Data Engineering 2018

Merging RDF Characteristic Sets to Optimize SPARQL Queries

Marios Meimaris

Athena Research Center

George Papastefanatos

ATHENA Research Center

## SESSIONS \_\_\_\_

A Graph-Theoretic Approach for Recommendation Models

Marialena Kyriakidi

National and Kapodistrian

University of Athens

Georgia Koutrika

Athena Research Center

Yannis Ioannidis

National and Kapodistrian

University of Athens

Studying the readability of scientific papers

Thanasis Vergoulis

IMSI/Athena RC

Ilias Kanellos

Athena Research Center

**Anargiros Tzerefos** 

University of the Peloponnese

Serafeim Chatzopoulos

Athena Research Center

Theodore Dalamagas

Athena Research Center

Spiros Skiadopoulos

University of the Peloponnese

Artificial Intelligence for Copernicus Data: the ExtremeEarth Project George Stamoulis

National and Kapodistrian University of Athens

sql2tf: From SQL to TensorFlow Physical Plans of Machine

Physical Plans of Machine Learning Algorithms Nantia Makrynioti

Athens University of Economics

and Business

Ruy Ley-Wild

relationalAl

Vasilis Vassalos

Athens University of Economics

and Business

A Pipelined Architecture for Greek Tweets Processing

Dimitris V Pappas

Athena Research Center

Haris Papageorgiou

Athena Research Center

## **INDUSTRY TALK 2**

**IBM** 

Evi Lampaki

IBM Consultant

TITLE: Overview of an Enterprise Datawarehouse implementation strategy

## AI/DB PANEL

### MODERATOR

Stratos Idreos

Harvard University, USA

### PARTICIPANTS

Ion Androutsopoulos

Athens University of Economics and Business, Greece

Yannis Ioannidis

ATHENA Research and Innovation Center & National and

Kapodistrian University of Athens, Greece

Georgia Koutrika

ATHENA Research and Innovation Center, Greece

Eirini Ntoutsi

Leibniz University Hannover, Germany

Ippokratis Pandis

Amazon Web Services

Peter Triantafillou

University of Warwick, UK

