Day 1 (July 1st, 2024)	
Time	Event
8:00 - 9:15am	Registration
9:15 - 9:25am	Opening Remarks Manos Athanassoulis (Boston University), Alkis Simitsis (ATHENA Research Center)
9:25 - 9:30am	Hellenic ACM SIGMOD Chapter Announcement Evi Pitoura (University of Ioannina)
9:30 - 10:00am	Keynote 1: *The need for a more modern database* Stavros Papadopoulos (TileDB) <u>Click to display the abstract and bio</u>
Session 1: "Modern Data Processing" Chair: Zoi Kaoudi	
10:00 - 10:10am	*Amazon Redshift Re-invented* Armenatzoglou, Nikos*; Pandis, Ippokratis; Palychroniou, Orestis; Parchas, Panos <u>Click to display the abstract</u>
10:10 - 10:20am	*QPSeeker: An Efficient Neural Planner combining both data and queries through Variational Inference* Tsapelas, Christos*; Koutrika, Georgia <u>Click to display the abstract</u>
10:20 - 10:30am	*Dalton: Learned Partitioning for Distributed Data Streams* Zapridou, Eleni*; Mytilinis, Ioannis; Ailamaki, Anastasia <u>Click to display the abstract</u>
10:30 - 10:40am	*LlamaTune: Sample-Efficient DBMS Configuration Tuning* Kanellis, Konstantinos* <u>Click to display the abstract</u>
10:40 - 10:50am	*Pre-trained Embeddings for Entity Resolution: An Experimental Analysis* Zeakis, Alexandros*; Papadakis, George; Skoutas, Dimitrios; Koubarakis, Manolis <u>Click to display the abstract</u>
10:50 - 11:00am	*YeSQL: 'you extend SQL' with rich and highly performant user-defined functions in relational databases* Foufoulas, Yannis*; Simitsis, Alkis; Stamatogiannakis, Lefteris; Ioannidis, Yannis <u>Click to display the abstract</u>
11:00 - 11:10am	*Joint Source and Schema Evolution: Insights from a Study of 195 FOSS Projects* Vassiliadis, Panos* <u>Click to display the abstract</u>
11:10 - 11:20am	*Adaptive Real-time Virtualization of Legacy ETL Pipelines in Cloud Data Warehouses* Tsikoudis, Nikos* <u>Click to display the abstract</u>
11:30 - 12:00pm	Break
Session 2: "Time-Series, Mobile, Scientific Databases" Chair: Herodotos Herodotou	
12:00 - 12:10pm	*TIMBER: On supporting data pipelines in Mobile Cloud Environments* Tomaras, Dimitris; Tsenos, Michalis; Kalageraki, Vana; Gunopulos, Dimitrios <u>Click to display the abstract</u>
12:10 - 12:20pm	*Mobility Data Science: Perspectives and Challenges* Mokbel, Mohamed; Sakr, Mahmoud A; Xiong, Li; Züfle, Andreas; Theodoridis, Yannis* <u>Click to display the abstract</u>
12:20 - 12:30pm	*SIESTA: A Scalable Infrastructure of Sequential Pattern Analysis* Mavroudopoulos, Ioannis*; Gounaris, Anastasios <u>Click to display the abstract</u>
12:30 - 12:40pm	*Exploring unsupervised anomaly detection for vehicle predictive maintenance with partial information* Giannoulidis, Apostolos*; Gounaris, Anastasios; Constantinou, Ioanna <u>Click to display the abstract</u>
12:40 - 12:50pm	*On Vessel Location Forecasting and the Effect of Federated Learning* Tritsarolis, Andreas*; Pelekis, Nikos; Bereta, Konstantina; Zissis, Dimitrios; Theodoridis, Yannis <u>Click to display the abstract</u>
12:50 - 1:00pm	*Collision Risk Assessment and Forecasting on Maritime Data (Industrial Paper)* Tritsarolis, Andreas*; Murray, Brian; Pelekis, Nikos; Theodoridis, Yannis <u>Click to display the abstract</u>
1:00 - 1:10pm	*Visualization-aware Time Series Min-Max Caching with Error Bound Guarantees* Maroulis , Stavros *; Stamatopoulos, Vassilis; Papastefanatos, George; Terrovitis, Manolis <u>Click to display the abstract</u>
1:10 - 1:20pm	*Chimp: Efficient Lossless Floating Point Compression for Time Series Databases* Liakos, Panagiotis; Papakonstantinopoulou, Katia; Kotidis, Yannis <u>Click to display the abstract</u>
1:30 - 3:00pm	Lunch break
3:00 - 3:30pm	Keynote 2: *Robust Query Optimization in the Era of Machine Learning* Verena Kantere (Univeristy of Ottawa) <u>Click to display the abstract and bio</u>
Industry Session	
3:30 - 3:45pm	Industry Talk 1: *Data Systems RnD at Huawei's Edinburgh Research Centre* Nikos Ntarmos (Huawei) <u>Click to display the abstract and bio</u>
3:45 - 4:00pm	Industry Talk 2: *Snowflake Engineering in Berlin* Kostas Kloudas, Kostas Zoumpatianos (Snowflake) <u>Click to display the abstract and bio</u>
4:00-4:30pm	Break
4:30-5:30pm	Panel AI & DB in Industry Nikos Ntarmos (Huawei), Stavros Papadopoulos (TileDB), Ippokratis Pandis (Amazon)
5:30-6:00pm	Posters Setup
6:00-7:00pm	Posters
Move to <u>dinner</u>	
7:30-12:30pm	Cocktail Dinner

Day 2 (July 2nd, 2024)	
Time	Event
9:30 - 10:00am	Keynote 3: *Data Management innovation at Amazon Web Services* Ippokratis Pandis (Amazon Web Services) <u>Click to display the abstract and bio</u>
Session 3: "Query Processing & Execution" Chair: Katerina Doka	
10:00 - 10:10am	*Predicate Transfer: Efficient Pre-Filtering on Multi-Join Queries* Koutris, Paraschos*; Yu, Xiangyao; Zhao, Hangdong; Yong, Yifei <u>Click to display the abstract</u>
10:10 - 10:20am	*Foreign Keys Open the Door for Faster Incremental View Maintenance* Svingos, Christoforos* <u>Click to display the abstract</u>
10:20 - 10:30am	*SH2O: Efficient Data Access for Work-Sharing Databases* Sioulas, Panagiotis*; Mytilinis, Ioannis; Ailamaki, Anastasia <u>Click to display the abstract</u>
10:30 - 10:40am	*Efficient Computation of Quantiles over Joins* Tziavelis, Nikolaos* <u>Click to display the abstract</u>
10:40 - 10:50am	*Raster Intervals: An Approximation Technique for Polygon Intersection Joins* Georgiadis, Thanasis*; Mamoulis, Nikos <u>Click to display the abstract</u>
10:50 - 11:00am	*In-Situ Cross-Database Query Processing* Gavriilidis, Haralampos*; Beedkar, Koustubh; Quiané Ruiz, Jorge Arnulfo; Markl, Volker <u>Click to display the abstract</u>
11:00 - 11:10am	*Cost-based Data Prefetching and Scheduling in Big Data Platforms over Tiered Storage Systems* Herodotou, Herodotos *; Kakoulli, Elena <u>Click to display the abstract</u>
11:10 - 11:20am	*DIAERESIS: RDF Data Partitioning and Query Processing on SPARK* Troullinou, Georgia; Agathangelos, Giannis; Kondylakis, Haridimos*; Stefanidis, Kostas; Plexousakis, Dimitris <u>Click to display the abstract</u>
11:30 - 12:00pm	Break
Session 4: "Indexing & Similarity Search" Chair: Dimitris Skoutas	
12:00 - 12:10pm	*LIT: Lightning-fast In-memory Temporal Indexing* George Christodoulou (TU Delft); Panagiotis Bouros (Johannes Gutenberg University Mainz); Nikos Mamoulis (University of Ioannina)* <u>Click to display the abstract</u>
12:10 - 12:20pm	*Efficient Semantic Similarity Search over Spatio-textual Data* George S. Theodoropoulos (University of Piraeus); Kjetil Nørvåg (Norwegian University of Science and Technology); Christos Doulkeridis (University of Piraeus)* <u>Click to display the abstract</u>
12:20 - 12:30pm	*Ένα Πλαίσιο Διαχείρισης Δεδομένων για Συνεχή kNN Κατάταξη Φορτιστών Ηλεκτρικών Οχημάτων με Εκτιμώμενα Στοιχεία* Soteris Constantinou (University of Cyprus)*; Constantinos Costa (Rinnoca Ltd); Andreas Konstantinidis (Frederick University); Mohamed Mokbel (University of Minnesota - Twin Cities); Demetrios Zeinalipour-Yazti (University of Cyprus) <u>Click to display the abstract</u>
12:30 - 12:40pm	*OmniSketch: Efficient Multi-Dimensional High-Velocity Stream Analytics with Arbitrary Predicates* Wieger R. Punter (TU Eindhoven); Odysseas Papapetrou (TU Eindhoven)*; Minos Garofalakis (ATHENA Research Center) <u>Click to display the abstract</u>
12:40 - 12:50pm	*Dandelion Hashtable: Beyond Billion In-memory Requests per Second on a Commodity Server* Antonios Katsarakis (Huawei Research)*; Vasilis Gavrielatos (Huawei); Nikos Ntarmos (Edinburgh Research Center, Central Software Institute, Huawei) <u>Click to display the abstract</u>
12:50 - 1:00pm	*Proportionality on Spatial Data with Context* Fokas, George; Kalamatianos, Georgios <u>Click to display the abstract</u>
1:00 - 1:10pm	*Graph Theory for Consent Management: A New Approach for Complex Data Flows* Filipczuk, Dorota; Gerding, Enrico H.; Konstantinidis, George <u>Click to display the abstract</u>
1:20-3:00pm	Lunch break & Mentoring Event
3:00 - 4:30pm	Community Engagement
4:30 - 5:00pm	Break
5:00 - 6:30pm	Panel AI in Academia / Education-Research-System Design Anastasia Ailamaki (EPFL), Yannis Ioannidis (NKUA/ATHENA Research Center), Timos Sellis (Archimedes/ATHENA Research Center)
6:30pm	Closing remarks