



# MDM 2024

25<sup>th</sup> Conference on  
Mobile Data Management

## Awards Ceremony

**Walid G. Aref**  
Purdue University, USA

**Chiara Renso**  
ISTI-CNR, Italy

**Mahmoud Sakr**  
Université libre de  
Bruxelles, Belgium

# IEEE MDM 2024 Best Paper Award

# Best Paper Award

## Program Chairs

**Dimitris Sacharidis** (Université libre de Bruxelles, Belgium)

**Kyoung-Sook Kim** (National Institute of Advanced Industrial Science and Technology (AIST), Japan)

**Manos Papagelis** (York University, Canada)



# IEEE MDM 2024 Best Paper Award

## *Efficient Shortest Path Queries on 3D Weighted Terrain Surfaces for Moving Objects*

Yinzhaoyan (Hong Kong University of Science and Technology)

Raymond Chi-Wing Wong (Hong Kong University of Science and Technology)



# IEEE MDM 2024 Best Paper Runner-up (1)

## ***BiasBuster: A Neural Approach for Accurate Estimation of Population Statistics using Biased Location Data***

Sepanta Zeighami (University of California Berkeley)

Cyrus Shahabi (University of Southern California)



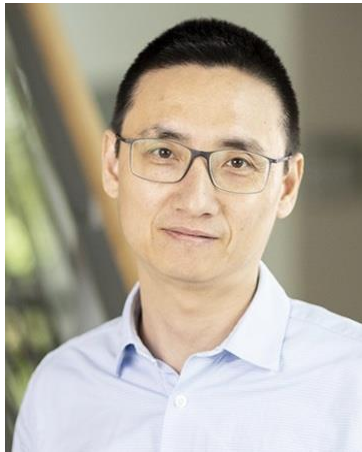


# IEEE MDM 2024 Best Paper Runner-up (2)

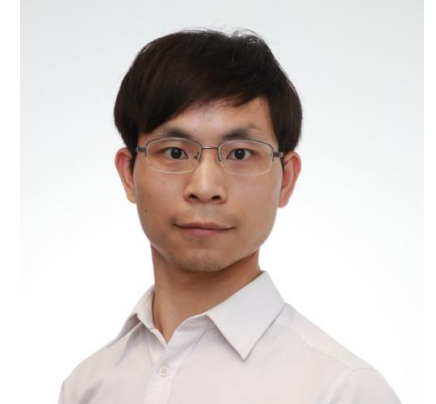
## ***CLEAR: Ranked Multi-Positive Contrastive Representation Learning for Robust Trajectory Similarity Computation***

Jialiang Li (Roskilde University); Hua Lu (Roskilde University)

Tiantian Liu (Aalborg University)



# Best Industry and Applications Paper Award



Industry Track Chairs:

**Ashley Song** (Microsoft, USA)

**Cheng Long** (Nanyang Technological University, Singapore)

# IEEE MDM 2024 Best Applications Paper Award

## *Querying Mobile Pollution Data using MobilityDB*

Leticia Gómez (Inst. Tecnológico de Buenos Aires Buenos Aires, Argentina), Alejandro Vaisman (Instituto Tecnológico de Buenos Aires Buenos Aires, Argentina), Esteban Zimányi (Université Libre de Bruxelles Brussels, Belgium)

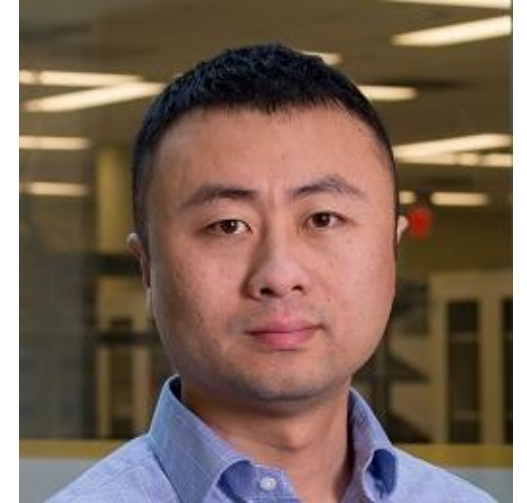
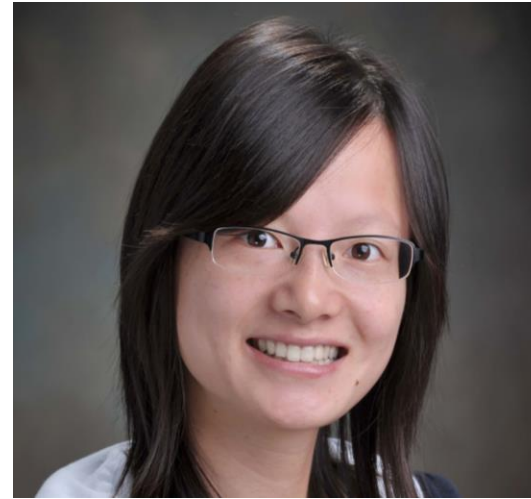




# IEEE MDM 2024 Best Applications Paper Runner-up

## *Curbside Parking Occupancy Detection - Dashcam-Based Solutions*

Jiayu Li, Hanming Zhang, Juhua Hu, Wei Cheng  
(University of Washington, Tacoma, USA)



# Best Demo Paper Award



Demonstration Chairs:

**Luca Pappalardo** (ISTI-CNR, Italy)

**Panagiotis Tampakis** (University of Southern Denmark, Denmark)

**Prem Prakash Jayaraman** (Swinburne University, Australia)

# IEEE MDM 2024 Best Demo Paper Award

## *MetaPoL Immersive VR based Indoor Patterns of Life (PoL) and Anomalies Data Generation for Insider Threat Modeling in Nuclear Security*

By Chathika Gunaratne (Oak Ridge National Laboratory (ORNL) ), Mason Stott (University of Tennessee Knoxville), **Debraj De\*** (Oak Ridge National Laboratory), Gautam Malviya Thakur (Oak Ridge National Laboratory)



# IEEE MDM 2024 D&I Best Presentation Award

# D&I Best Presentation Award



Diversity & Inclusion Chairs:

**Bettina Berendt** (TU Berlin, Weizenbaum Institute, Germany)

**Vana Kalogeraki** (Athens University of Economics and Business, Greece)



# IEEE MDM 2024 D&I Best Presentation Award

## *Semantics-aware Building and Summarization of Multiple Aspect Trajectories*

Chaira Pugliese (University of Pisa and ISTI-CNR, Italy)



# Test-of-Time Award

# Test-of-Time Award 2024

- IEEE International Conference on Mobile Data Management (MDM) series took its start in **1999** and has recently instituted a **Test-of-Time Award**.
- **Eligible papers:** all full research papers published in the **IEEE MDM 2005 to 2014** conference proceedings.
- MDM 2024 Test-of-Time Committee:

**Mohamed Mokbel**

(University of Minnesota, USA)

**Christian S. Jensen**

(Aalborg University, Denmark)

**Daniela Nicklas** (University of Bamberg, Germany)



# IEEE MDM 2024 Test-of-Time Award

## ***MD-HBase: A Scalable Multi-dimensional Data Infrastructure for Location-aware Services (MDM 2011)***

Shoji Nishimura, Sudipto Das, Divyakant Agrawal, and Amr El Abbadi

The paper broke new ground by extending open-source Big Data systems to support spatial and spatio-temporal queries. The paper is very well cited and continues to attract citations.



# Test-of-Time Award 2024 Presentation



# Distinguished Contributor Award

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## Distinguished Contributor Committee:

**Walid G. Aref** (Purdue University, USA)

**Shonali Krishnaswamy** (AiDA Tech., Singapore)

**Sanjay Madria** (Missouri S&T, USA)

**Evi Pitoura** (University of Ioannina, Greece)

**Arkady Zaslavsky** (Deakin University, Australia)



# MDM 2024 Distinguished Contributor Award

*Panos K. Chrysanthis*

for significantly contributing to the area of mobile data management (algorithms, systems and applications) through both research and professional services, with a notable impact on the success of IEEE MDM



# Thank you!

Walid G. Aref, Chiara Renso, Mahmoud Sakr



IEEE MDM 2024 General Chairs

