Constantinos Costa

— Curriculum Vitae —
Last Update: April 19, 2024

Rinnoco Ltd (https://rinnoco.com/) costa.c@rinnoco.com
Limassol, 3047, Cyprus https://costadb.com/

I. RESEARCH INTERESTS

Big Data Management and Mobile Computing, particularly distributed query processing for spatial and spatio-temporal datasets. Spatial Big Data Modeling utilizing Machine Learning techniques.

II. EDUCATION

Ph.D. Computer Science, University of Cyprus 2013-2018
Thesis: Algorithms and Indexing Structures for Spatial Big Data

M.Sc. Computer Science, University of Cyprus 2011-2013
Thesis: Scalable Continuous All k Nearest Neighbors Queries

B.Sc. Computer Science, University of Cyprus 2007-2011
Thesis: SmartTrace: A Distributed Spatio-Temporal Similarity Search Framework using Android-based Smartphone

III. ENTREPRENEURIAL APPOINTMENTS

Co-Founder & Chief Executive Officer (CEO),
Rinnoco LTD (https://rinnoco.com), Limassol, Cyprus 10/2021-Current

IV. ACADEMIC APPOINTMENTS

Visiting Research Assistant Professor,
Dept. of Computer Science, University of Cyprus, Cyprus 09/2023-12/2023

Visiting Postdoctoral Researcher, DMSL Lab, University of Cyprus, Cyprus 06/2023-Current

Research Associate, ADMT Lab, University of Pittsburgh, USA 01/2019-12/2022

Visiting Research Assistant Professor,
Dept. of Computer Science, University of Pittsburgh, USA 07/2021-12/2022

Visiting Lecturer, Dept. of Computer Science, University of Pittsburgh, USA 06/2020-06/2021

Visiting Research Scholar & Instructor, Dept. of Computer Science,
University of Pittsburgh, USA 01/2019-06/2020

Special Scientist, Dept. of Computer Science, University of Cyprus, Cyprus 09/2018-01/2019

Research Assistant, DMSL Lab, Dept. of Computer Science, University of Cyprus, Cyprus 2010-2018

Teaching Assistant, University of Cyprus, Cyprus 2011-2018

V. RESEARCH AND DEVELOPMENT PROJECTS

- **01/2022-Current (Software Developer/Analyst/System Architect):** "Data management system to support the clinical health imaging portability standards", Psychology Software Tools Inc (PST).
- **07/2020-07/2021 (Co-PI/Software Developer):** "VA Quantitative Quality Assurance (VA QQA) MRIS", US Department of Veteran Affairs.
- **07/2020-07/2021 (Co-PI/Software Developer/Solution Architect):** "HealthDist: Localization Accuracy Evaluation for Social Distancing", Pittsburgh Foundation & NIH U01HL137159.
- **01/2015-12/2015 (Research Assistant/Software Developer/Analyst/System Architect):** "Big Data Processing of Telco Data", MTN Cyprus Ltd., Cyprus and University of Cyprus.
- **01/2014-12/2014 (Research Assistant/Android Developer):** "Spatio-Temporal Mobile Data Management", Geomatic Technologies Ltd., Cyprus.
- **11/2012-12/2013 (Research Assistant/Backend Developer):**"AppCampus Award: Rayzit", Industrial Grant by Aalto University, Microsoft, Nokia..

VI. AWARDS & HONORS

- IEEE MDM'21 - Best Industry and Application Paper Award at MDM 2021, "A Context, Location and Preference-Aware System for Safe Pedestrian Mobility", 22nd IEEE International Conference on Mobile Data Management (MDM'21), Toronto, Canada, June 15 - June 18, 2021.
- IEEE MDM'21 - Best Demo Award at MDM 2021, "HealthDist: A Context, Location and Preference-Aware System for Safe Navigation", 22nd IEEE International Conference on Mobile Data Management (MDM'21), Toronto, Canada, June 15 - June 18, 2021.
- IEEE MDM'18 - Best of MDM 2018 (Geoinformatica - Springer - journal invitation), "Decaying Telco Big Data with Data Postdiction", 19th IEEE International Conference on Mobile Data Management (MDM'18), Aalborg, Denmark, June 26 - June 28, 2018.
- IEEE MDM'18 - Best Demo Award, "FMS: Managing Crowdsourced Indoor Signals with the Fingerprint Management Studio", 19th IEEE International Conference on Mobile Data Management (MDM'18), Aalborg, Denmark, June 26 - June 28, 2018.
- Among the finalists of the 2019 ERCIM Cor Baayen Young Researcher Award for his PhD Thesis titled: "Algorithms and Indexing Structures for Spatial Big Data", 2018.
- Participation in the ACM Europe Summer School on Data Science, 2018.
- Participation in the Onassis Foundation Science Lecture Series in Computer Science devoted to "BIG DATA and Applications", 2017.
- Travel Grant Award among 200 invitees globally to attend the 4th Heidelberg Laureate Forum (HLF), Heidelberg, Germany, Sept 18 - 23, 2016.
- PI: New Researcher Program, University of Cyprus, Ph.D. Fellowship for C. Costa, Advisor: Demetrios Zeinalipour-Yazti, 2017.
- PI: New Researcher Program, University of Cyprus, Ph.D. Fellowship for C. Costa, Advisor: Demetrios Zeinalipour-Yazti, 2016.
- Young Researcher: "New Researcher Program", University of Cyprus, PhD Fellowship for C. Costa, Advisor: Demetrios Zeinalipour-Yazti, 2014.

- Appcampus Award, "Rayzit: Crowd Messaging" by Microsoft, Nokia and Aalto University (Finland), 2013.
- Startup prize award at HackCyprus sponsored by the CIIM Entrepreneurship and Innovation Centre, 2013.
- Best Mobile Application Award at HackCyprus sponsored by Cocoon Creations, 2013.
- Ranked 1st place at the Microsoft ImagineCup national competition with *iDOC* implementation, 2011.

VII. RESEARCH GRANTS AND FUNDING

- **CONCEPT/0823/0002**, Cyprus' Research Promotion Foundation RESTART programme, under project COMPASS, 2024.
- **CONCEPT/0823/0052**, Cyprus' Research Promotion Foundation RESTART programme, under project FEDILA, 2024.
- **INNOVOUCHERS/0722/0025**, Cyprus' Research Promotion Foundation RESTART programme, under project SIBACO, 2023.
  More: https://rinnoco.com/projects/sibaco.html
- **The Pittsburgh Foundation Grant**, Healthy Social Distancing Project, 2020 - 2021.
  More: https://db.cs.pitt.edu/healthdist

VIII. PUBLICATIONS

Google Scholar Citations: 411; h-index[1]: 12; i10-index[2]: 13

JOURNAL AND MAGAZINE PAPERS

J5. "ASTRO: Reducing COVID-19 Exposure through Contact Prediction and Avoidance",
Chrysovalantis Anastasiou, **Constantinos Costa**, Panos K. Chrysanthis, Cyrus Shahabi, Demetrios Zeinalipour-Yazti, ACM Trans. Spatial Algorithms Syst. Association for Computing Machinery **(TSAS'22)**, Volume 8, New York, NY, USA, **2022**.

J4. "Continuous Decaying of Telco Big Data with Data Postdiction",
Constantinos Costa, Andreas Charalampous, Andreas Konstantinidis, Demetrios Zeinalipour-Yazti, Mohamed F. Mokbel, International Journal on Advances of Computer Science for Geographic Information Systems **(GeoInformatica '19)**, 23(4): 533-557, **2019**.

J3. "Crowdsourcing Emergency Data in Non-Operational Cellular Networks",
Georgios Chatzimilioudis, **Constantinos Costa**, Demetrios Zeinalipour-Yazti, Wang-Chien Lee, **Information Systems (InfoSys)**, Special Issue on Large-Scale Data Management for Mobile Applications, 64: 292-302, **2017**.

J2. "Distributed In-Memory Processing of All k Nearest Neighbor Queries",
Georgios Chatzimilioudis, **Constantinos Costa**, Demetrios Zeinalipour-Yazti and Wang-Chien Lee and Evaggelia Pitoura, **Transactions on Knowledge and Data Engineering (TKDE)**, IEEE Computer Society, 28(4): 925-938, **2016**.

[1] h-index is the largest number h such that h publications have at least h citations.
[2] i10-index is the number of publications with at least 10 citations.

J1. **"Crowdsourced trace similarity with smartphones"**,
Demetrios Zeinalipour-Yazti, Christos Laoudias, **Costantinos Costa**, Michalis Vlachos, Dimitrios Gunopulos, **IEEE Transactions on Knowledge and Data Engineering (TKDE)**, IEEE Computer Society, 25(6): 1240-1253, **2013**.

CONFERENCE AND WORKSHOP PAPERS

C20. **"Remembering the Forgotten: Clustering, Outlier Detection, and Accuracy Tuning in a Postdiction Pipeline"**,
Anna Baskin, Scott Heyman, Brian T. Nixon, **Constantinos Costa**, Panos K. Chrysanthis, *Proceedings of the 39th IEEE International Conference on Data Engineering Workshops,* **(ADBIS 2023)**, 46-55, **2023**.

C19. **"Recommending the Least Congested Indoor-Outdoor Paths without Ignoring Time"**, Sarris, Vasilis Ethan and Chrysanthis, Panos K. and **Constantinos Costa**, *Proceedings of the 18th International Symposium on Spatial and Temporal Data* **(SSTD '23)**, Calgary, AB, Canada Association for Computing Machinery, 121–130, 2023.

C18. **"RETSINA: Reproducibility and Experimentation Testbed for Signal-Strength Indoor Near Analysis"**,
Anna Baskin, Scott Heyman, Brian T. Nixon, **Constantinos Costa**, Panos K. Chrysanthis and Christos Laoudias, *Proceedings of the Intl. Conference on Indoor Positioning and Indoor Navigation* **(IPIN '23)**, xx-xx, 2023.

C17. **"An IoT Data System for Solar Self-Consumption"**,
Soteris Constantinou, Savvas Polycarpou, **Constantinos Costa**, Andreas Konstantinidis, K. Chrysanthis and Demetrios Zeinalipour-Yazti, *Proceedings of the 24st IEEE International Conference on Mobile Data Management,* **(MDM '23)**, **2023**.

C16. **"GreenCap: A Platform for Solar Self-Consumption using IoT Data"**,
Soteris Constantinou, Savvas Polycarpou, **Constantinos Costa**, Andreas Konstantinidis, K. Chrysanthis and Demetrios Zeinalipour-Yazti, *Proceedings of the 24st IEEE International Conference on Mobile Data Management,* **(MDM '23)**, **2023**.

C15. **"CAPRIO with Inclusive Pedestrian Path Recommendations"**,
Brian T. Nixon, Chen, Konduru, Liu, **Constantinos Costa** and Panos K. Chrysanthis, *Proceedings of the 24st IEEE International Conference on Mobile Data Management,* **(MDM '23)**, **2023**.

C14. **"Towards a Signature Based Compression Technique for Big Data Storage"**,
Constantinos Costa, Panos K. Chrysanthis, Marios Costa Efstathios Stavrakis and Nicolas Nicolaou, *Proceedings of the 39th IEEE International Conference on Data Engineering Workshops,* **(ICDE 2023)**, 100-104, **2023**.

C13. **"ASTRO-K: Finding Top-k Sufficiently Distinct Indoor-Outdoor Paths"**,
Vasilis Ethan Sarris, **Constantinos Costa**, and Panos K. Chrysanthis, *Proceedings of the 1st IEEE Intl. Workshop on ALgorithms for Indoor Architectures and Systems,* **(ALIAS 2022)**, 372-377, **2022**.

C12. **"Thinking Inclusively with CAPRIO"**,
Lucas W. Leiby, **Constantinos Costa**, and Panos K. Chrysanthis, *Proceedings of the 1st IEEE Intl. Workshop on ALgorithms for Indoor Architectures and Systems,* **(ALIAS 2022)**, 378-380, **2022**.

C11. **"A Context, Location and Preference-Aware System for Safe Pedestrian Mobility"**,
Constantinos Costa, Brian Nixon, Sayantani Bhattacharjee, Benjamin Graybill, Demetrios Zeinalipour-Yazti, Walter Schneider, Panos K. Chrysanthis, *Proceedings of the 22nd IEEE International Conference on Mobile Data Management,* **(MDM '21)**, **2021**.

C10. "The Anyplace 4.0 IoT Localization Architecture",
Paschalis Mpeis, Thierry Roussel, Manish Kumar, **Constantinos Costa**,Christos Laoudias, Denis Capot-Ray Demetrios Zeinalipour-Yazti, *Proceedings of the 21st IEEE International Conference on Mobile Data Management,* **(MDM '20)**, **2020**.

C9. "CAPRIO: Context Aware Path Recommendation exploiting Indoor and Outdoor information",
Constantinos Costa, Xiaoyu Ge, and Panos K. Chrysanthis, *Proceedings of the 1st IEEE Intl. Workshop on ALgorithms for Indoor Architectures and Systems,* **(ALIAS 2019)**, 431-436, **2019**.

C8. "Telco Big Data Research and Open Problems",
Constantinos Costa and Demetrios Zeinalipour-Yazti, *Proceedings of the 35th IEEE International Conference on Data Engineering* **(ICDE 2019)**, 2056-2059, **2018**.

C7. "Decaying Telco Big Data with Data Postdiction",
Constantinos Costa, Andreas Charalampous, Andreas Konstantinidis, Demetrios Zeinalipour-Yazti, and Mohamed F. Mokbel, *Proceedings of the 19th IEEE International Conference on Mobile Data Management,* **(MDM 2018)**, 106-115, **2018**.

C6. "Telco Big Data: Current State & Future Directions",
Constantinos Costa and Demetrios Zeinalipour-Yazti, *Proceedings of the 19th IEEE International Conference on Mobile Data Management,* **(MDM 2018)**, 11-14, **2018**.

C5. "Towards Real-Time Road Traffic Analytics using Telco Big Data",
Constantinos Costa, Georgios Chatzimilioudis, Demetrios Zeinalipour-Yazti and Mohamed F. Mokbel, *Proceedings of the 11th Intl. Workshop on Real-Time Business Intelligence and Analytics* **(BIRTE 2017)**, collocated with VLDB 2017, 5:1–5:5, **2017**.

C4. "Efficient Exploration of Telco Big Data with Compression and Decaying",
Constantinos Costa, Georgios Chatzimilioudis, Demetrios Zeinalipour-Yazti, Mohamed F. Mokbel, *Proceedings of the 33rd IEEE International Conference on Data Engineering* **(ICDE 2017)**, 1332-1343, **2017**.

C3. "Distributed In-Memory Processing of All k Nearest Neighbor Queries",
Georgios Chatzimilioudis, **Constantinos Costa**, Demetrios Zeinalipour-Yazti and Wang-Chien Lee and Evaggelia Pitoura, *Proceedings of the 32nd IEEE International Conference on Data Engineering* **(ICDE 2016)**,1490-1491, **2016**.

C2. "Rayzit: An Anonymous and Dynamic Crowd Messaging Architecture",
Constantinos Costa, Chrysovalantis Anastasiou, Georgios Chatzimilioudis and Demetrios Zeinalipour-Yazti *Proceedings of the 3rd IEEE International Workshop on Mobile Data Management Mining and Computing on Social Networks collocated with IEEE MDM '15 (***Mobisocial 2015***)*, (2):98-103, **2015**.

C1. "Managing Smartphone Testbeds with SmartLab",
George Larkou, **Constantinos Costa**, Panayiotis K. Andreou, Andreas Konstantinides and Demetrios Zeinalipour-Yazti *Proceedings of the 27th USENIX Large Installation System Administration Conference* (**LISA 2013**), 115-132, **2013**.

DEMO PAPERS/ SYSTEMS DEVELOPMENT

D10. "Efficient Detection of COVID-19 Exposure",
Brian Nixon, Rakan Alseghayer, Benjamin Graybill, Xiaozhong Zhang, **Constantinos Costa**, Panos K. Chrysanthis, *Proceedings of the 22nd IEEE International Conference on Mobile Data Management,* **(MDM '22)**, **2022**.

D9. "HealthDist: A Context, Location and Preference-Aware System for Safe Navigation",
Brian Nixon, Sayantani Bhattacharjee, Benjamin Graybill, **Constantinos Costa**, Sudhir Pathak, Walter Schneider, Panos K. Chrysanthis, *Proceedings of the 22nd IEEE International Conference on Mobile Data Management,* **(MDM '21)**, **2021**.

D8. "CAPRIO v2.0: A Context-Aware Unified Indoor-Outdoor Path Recommendation System",
Constantinos Costa, Xiaoyu Ge, Evan McEllhenney, Evan Kebler, Panos K. Chrysanthis and Demetrios Zeinalipour-Yazti *of the 21th IEEE International Conference on Mobile Data Management* **(MDM 2020)**, June 30 - July 3, Versailles, France, **2020**.

D7. "CAPRIO: Graph-based Integration of Indoor and Outdoor Data for Path Discovery",
Constantinos Costa, Xiaoyu Ge, and Panos K. Chrysanthis, *Proceedings of the VLDB Endowment* **(PVLDB)**, 12(12): 1878-1881, **2019**.

D6. "FMS: Managing Crowdsourced Indoor Signals with the Fingerprint Management Studio",
Marileni Angelidou, **Constantinos Costa**, Artyom Nikitin and Demetrios Zeinalipour-Yazti, *Proceedings of the 19th IEEE International Conference on Mobile Data Management,* **(MDM 2018)**, 288-289, June 25 - June 28, 2018, AAU, Aalborg, Denmark, **2018**.

D5. "TBD-DP: Telco Big Data Visual Analytics with Data Postdiction",
Constantinos Costa, Andreas Charalampous, Andreas Konstantinidis, Demetrios Zeinalipour-Yazti, and Mohamed F. Mokbel *Proceedings of the 19th IEEE International Conference on Mobile Data Management,* **(MDM 2018)**, 280-281, June 25 - June 28, 2018, AAU, Aalborg, Denmark, **2018**.

D4. "SPATE: Decaying and Exploration of Telco Big Data",
Constantinos Costa, Georgios Chatzimilioudis, Demetrios Zeinalipour-Yazti, Mohamed F. Mokbel, Demo at *Proceedings of the 33nd International Conference on Data Engineering* **(ICDE 2017)**, 1419-1420, **2017**.

D3. "Demo: A Programming Cloud of Smartphones",
Andreas Konstantinidis, **Constantinos Costa**, George Larkou and Demetrios Zeinalipour-Yazti, *The 10th International Conference on Mobile Systems, Applications and Services* (**MobiSys 2012)**, 465-466, **2012**.

D2. "SmartTrace: Finding Similar Trajectories in Smartphone Networks without Disclosing the Traces", **Constantinos Costa**, Christos Laoudias, Demetrios Zeinalipour-Yazti, Dimitrios Gunopulos Demo at 27th International Conference on Data Engineering March (**ICDE 2011**), 1288-1291, **2011**.

D1. An Indoor Trajectory Comparison Framework for Android Smartphones, Christos Laoudias, **Constantinos Costa**, Demetrios Zeinalipour-Yazti, Christos G. Panayiotou, Demo at the International Conference on Indoor Positioning and Indoor Navigation (**IPIN 2011**), **2011**.

BOOK CHAPTERS

B1. "1 - Challenges of Fingerprinting in Indoor Positioning and Navigation",
Antoni Pérez-Navarro and Joaquín Torres-Sospedra and Raul Montoliu and Jordi Conesa and Rafael Berkvens and Giuseppe Caso and **Constantinos Costa** and Nicola Dorigatti and Noelia Hernández and Stefan Knauth and Elena Simona Lohan and Juraj Machaj and Adriano Moreira and Pawel Wilk, **Geographical and Fingerprinting Data to Create Systems for Indoor Positioning and Indoor/Outdoor Navigation**, A volume in Intelligent Data-Centric Systems, Academic Press, Pages: 1 - 20, ISBN: 978-0-12-813189-3, **2019**.

PRESENTATIONS

- **Presentation**, *"Innovative Big Data Analytics and Applications"*, *The EuroCC-2 Seminar Series*, November 8, The Cyprus Institute, Nicosia, Cyprus, **2023**.
- **Presentation**, *"Towards a Signature Based Compression Technique for Big Data Storage"*, *The 14th IEEE International Workshop on Self-Managing Database Systems (SMDB 2023 @ ICDE 2023*,April 3 – 7, Anaheim, California, USA, **2023**.
- **Presentation**, *"Thinking Inclusively with CAPRIO"*, *The 2nd IEEE International Workshop on ALgorithms for Indoor Architectures and Systems (ALIAS 2022 @ MDM 2022*,June 6 – 9, Paphos, Cyprus, **2022**.
- **Demo Presentation**, *"CAPRIO v2.0: A Context-Aware Unified Indoor-Outdoor Path Recommendation System"*, *he 21st IEEE International Conference on Mobile Data Management*, June 30 - July 3, Versailles, France, **2020**.
- **Demo Presentation**, *"CAPRIO: Graph-based Integration of Indoor and Outdoor Data for Path Discovery"*, *The 45th International Conference on Very Large Data Bases (VLDB'19)*, Los Angeles, California, August 26 - August 30, **2019**.
- **Presentation**, *"Telco Big Data Research and Open Problems"*, The the 35th IEEE International Conference on Data Engineering (ICDE 2019), 2056-2059, Macao, Macao, April 8 - April 11, **2019**.
- **Presentation**, *"Towards Real-Time Road Traffic Analytics using Telco Big Data"*, The 11th Intl. Workshop on Real-Time Business Intelligence and Analytics, collocated with VLDB 2017 (BIRTE '17), Munich, Germany, August 28, **2017**.
- **Demo Presentation**, *"SPATE: Compacting and Exploring Telco Big Data"*, The 33rd IEEE International Conference on Data Engineering (ICDE 2017), San Diego, CA, USA, April 19, **2017**.
- **Presentation**, *"Efficient Exploration of Telco Big Data with Compression and Decaying"*, The 33rd IEEE International Conference on Data Engineering (ICDE 2017), San Diego, CA, USA, April 19, **2017**.
- **Presentation**, *"Anyplace Indoor Information Service"*, Symposium on Challenges of Fingerprinting in Indoor Positioning and Navigation, Open University of Catalonia, Barcelona, Spain, May 3, **2016**.
- **Presentation**, *"Managing Smartphone Testbeds with SmartLab"*, 27th USENIX Large Installation System Administration Conference ' (LISA '13), Washington D.C., USA, November 7, **2013**.
- **Presentation**, *"Trajectory Similarity with SmartTrace"*, Final Conference of MOVE COST Action IC903, Vienna, Austria, Sept 30 - Oct 1, 2013, October 1, **2013**.
- **Presentation**, *"Data Management in Smartphone Networks (for High School Students)"*, 2nd Computer Science Day for High School Students, University of Cyprus, Nicosia, Cyprus, March 19, **2011**.

IX. DEPARTMENTAL SERVICE

- **Judge**, 6th SteelHacks hackathon hosted at the University of Pittsburgh, 2020.
- **Mentor**, 5th SteelHacks hackathon hosted at the University of Pittsburgh, 2019.

- **Evaluator**, Second ACM ICPC (Inter-Collegiate Programming Competition) Cyprus Competition, 2018.
- **Evaluator/ Organizer**, 6th National Logipaignion Contest for Elementary and High School Students, 2014.

X. PROFESSIONAL ACTIVITY & MEMBERSHIPS

- **Editorial Boards:**
  - **Special Issue Lead Guest Editor**, "Special Issue on Self-Managing and Hardware-Optimized Database Systems 2022", Special Issue in Distributed and Parallel Databases journal, Editors-in-Chief: Mohamed Mokbel (University of Minnesota, MN, USA) and Divyakant Agrawal (University of California, Santa Barbara, CA, USA), **2022 - 2023**.
  - **Special Issue Guest Editor**, "Special Issue on Self-Managing and Hardware-Optimized Database Systems 2020", Special Issue in Distributed and Parallel Databases journal, Editors-in-Chief: Mohamed Mokbel (University of Minnesota, MN, USA) and Divyakant Agrawal (University of California, Santa Barbara, CA, USA), **2020 - 2021**.
- **Organizing Committee Member:**
  - **Executive Online Platforms Chairs** The 24rd IEEE International Conference on Mobile Data Management (MDM 2022), July 3 - July 6, Singapore, **2023**.
  - **Program Chair** Self-managing Database Systems (SMDB 2023), 3 APRIL 2023, Anaheim, California, USA, **2023**.
  - **Session Chair/Online Platform Chair** The 23rd IEEE International Conference on Mobile Data Management (MDM 2022),June 6 – 9, 2022, Paphos, Cyprus, **2022**.
  - **Program Chair** Self-managing Database Systems (SMDB 2022), 9 MAY 2022 , Kuala Lumpur, Malaysia, **2022**.
  - **Session Chair** 47th International Conference on Very Large Data Bases (VLDB 2021), August 16-20, Copenhagen, Denmark, 2021, **2021**.
  - **PhD Forum Chair** 22nd IEEE International Conference on Mobile Data Management (MDM'21), Toronto, Canada, June 15 - June 18, **2021**.
  - **Executive Online Platform Chair** 22nd IEEE International Conference on Mobile Data Management (MDM'21), Toronto, Canada, June 15 - June 18, **2021**.
  - **Workshops Proceedings Chair** 24th International Conference on Extending Database Technology (EDBT 2021), March 23 – 26, 2021 - Nicosia, Cyprus, **2021**.
  - **Vice Program/Communication Chair** Self-managing Database Systems (SMDB 2021), April 19, 2021 - Crete, Greece, **2021**.
  - **Vice Program/Communication Chair** Self-managing Database Systems (SMDB 2020), April 20, 2020 - Dallas, Texas, **2020**.
  - **Vice Program Chair** Self-managing Database Systems (SMDB 2019), April 8, 2019 - Macau, **2019**.
  - **Webmaster** Data Management Day, DMD'19, June 19, 2019 - Nicosia, Cyprus, **2019**.
  - **Webmaster** 16th Hellenic Data Management Symposium (HDMS 2018), July 2-4, 2018 - Larnaca, Cyprus, **2018**.
  - **Webmaster** 3rd International Workshop On Human Mobility Computing and Privacy (HuMoComP 2015), held in conjunction with the 16th IEEE MDM 2015, June 18, 2015 - Pittsburgh, PA, USA, **2015**.
- **Referee for Journals and Magazines:**
  - TSAS - Transactions on Spatial Algorithms and Systems, 2024.

- CSUR - Computing Surveys, 2023.
- TSAS - Transactions on Spatial Algorithms and Systems, 2023.
- TSAS - Transactions on Spatial Algorithms and Systems, 2021.
- VLDB - Very Large Data Bases, 2021.
- DAPD - Distributed and Parallel Databases, 2021.
- TSAS - Transactions on Spatial Algorithms and Systems, 2020.
- DAPD - Distributed and Parallel Databases, 2020.
- COMP - Computing Journal, 2019.
- IJCIS - International Journal of Cooperative Information Systems, 2019.
- COMP - Computing Journal, 2018.
- FGCS - InFuture Generation Computer Systems Journal, 2018.

- **External Referee for Workshops:**
  - SMDB - Self-managing Database Systems, 2022.
  - BigMine - Intl. Workshop on Big Data, IoT Streams and Heterogeneous Source Mining, 2019.
  - ALIAS - Intl. Workshop on ALgorithms for Indoor Architectures and Systems, 2019.
  - IEEE MobiSocial (MDM) - Intl. Workshop on Mobile Data Management, Mining, and Computing on Social Networks, 2015.

- **External Referee for Conferences/Symposiums:**
  - IEEE ICDE - Intl. Conference on Data Engineering, 2024.
  - ACM SIGSPATIAL - Intl. Conf. on Advances in GIS, 2023.
  - ACM SIGMOD - Intl. Management of Data Conference, 2022.
  - ACM SIGSPATIAL - Intl. Conf. on Advances in GIS, 2021.
  - ACM SIGMOD - Intl. Management of Data Conference, 2021.
  - IEEE MDM - Intl. Conference on Mobile Data Management, 2021.
  - VLDB - Very Large Data Bases Conference, 2021.
  - IEEE ICDE - Intl. Conference on Data Engineering, 2021.
  - IEEE MDM - Intl. Conference on Mobile Data Management, 2020.
  - IEEE ICDE - Intl. Conference on Data Engineering, 2020.
  - EDBT/ICDT - Intl. Conference on Extending Database Technology, 2020.
  - EDBT/ICDT - Intl. Conference on Extending Database Technology, 2019.
  - CIKM - Intl. Conference on Extending Database Technology, 2018.
  - IEEE MDM - Intl. Conference on Mobile Data Management, 2018.
  - EDBT/ICDT - Intl. Conference on Extending Database Technology, 2018.
  - IEEE TMC - Transactions on Mobile Computing,2017.
  - IEEE MDM - Intl. Conference on Mobile Data Management, 2017.
  - EDBT/ICDT - Intl. Conference on Extending Database Technology, 2017.
  - VLDB - Very Large Data Bases Conference, 2016.
  - EDBT/ICDT - Intl. Conference on Extending Database Technology, 2016.
  - IEEE ICDE - Intl. Conference on Data Engineering, 2016.
  - ACM SIGMOD - Intl. Management of Data Conference, 2015.
  - IEEE MDM - Intl. Conference on Mobile Data Management, 2015.
  - VLDB - Very Large Data Bases Conference, 2014
  - ECML PKDD - European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases, 2014.

- EDBT/ICDT - Intl. Conference on Extending Database Technology, 2014.
- ACM DEBS - Intl. Conference on Distributed Event-Based Systems, 2014.
- IEEE TSC - Transactions on Services Computing, 2014.
- ACM SIGMOD - Intl. Management of Data Conference, 2014.
- IEEE ISSNIP - Ninth Intl. Conference on Intelligent Sensors, Sensor Networks and Information Processing, 2014.
- IEEE ICDE - Intl. Conference on Data Engineering, 2013.
- SSDBM - Intl. Conference on Scientific and Statistical Database Management, 2013.
- VLDB - Very Large Data Bases Conference, 2013.

XI. TEACHING WORK EXPERIENCE

TEACHING APPOINTMENTS

Special Scientist, Dept. of Computer Sc., University of Cyprus 2023-current

- **EPL498 - Mobile Computing & Applications**, (Fall 2023)
  `https://costadb.com/courses/fall23/epl498/`
- **EPL035 - Data Structures and Algorithms for ECE**, (Fall 2023)
  `https://costadb.com/courses/fall23/epl035/`

Instructor, Dept. of Computer Sc., University of Pittsburgh 2019-2022

- **CS 1555/2055 - Database Management Systems**, (Spring 2022)
  `http://db.cs.pitt.edu/courses/cs1555/22-2/`
- **CS 3550 - Advanced Topics in Management of Data**, (Spring 2021)
  `https://db.cs.pitt.edu/courses/cs3550/21-2/`
- **CS 1555/2055 - Database Management Systems**, (Spring 2021)
  `http://db.cs.pitt.edu/courses/cs1555/21-2/`
- **CS 1645/2045 - Introduction to High Performance Computing**, (Spring 2021)
  `http://db.cs.pitt.edu/courses/cs1645/21-2/`
- **CS 1555/2055 - Database Management Systems**, (Fall 2020)
  `http://db.cs.pitt.edu/courses/cs1555/21-1/`
- **CS 1645/2045 - Introduction to High Performance Computing**, (Spring 2020)
  `http://db.cs.pitt.edu/courses/cs1645/21-1/`
- **CS 1555/2055 - Database Management Systems**, (Spring 2020)
  `http://db.cs.pitt.edu/courses/cs1555/20-2/`
- **CS 1645/2045 - Introduction to High Performance Computing**, (Spring 2020)
  `http://db.cs.pitt.edu/courses/cs1645/20-2/`
- **CS 1645/2045 - Introduction to High Performance Computing**, (Fall 2019)
  `http://db.cs.pitt.edu/courses/cs1645/20-1/`
- **CS/COE 0445 - Data Structures**, (Fall 2019)
  `http://db.cs.pitt.edu/courses/cs0445/20-1/`

- **CS 1555/2055 - Database Management Systems**, (Summer 2019)
  http://db.cs.pitt.edu/courses/cs1555/19-3/

- **CS 1555/2055 - Database Management Systems**, (Spring 2019)
  http://db.cs.pitt.edu/courses/cs1555/19-2/

- **CS0008 - Introduction to Computer Programming**, (Spring 2019)
  http://db.cs.pitt.edu/courses/cs0008/19-2/

Special Scientist, Dept. of Computer Sc., University of Cyprus 2018

- **EPL035 - Data Structures and Algorithms for ECE.**, (Fall 2018)
  https://costadb.com/courses/fall18/epl035/

Teaching Assistant, Dept. of Computer Sc., University of Cyprus 2011-2018

- **EPL660 - Information Retrieval and Search Engines**, taught by Prof. George Pallis
  http://www.cs.ucy.ac.cy/courses/EPL660/

- **EPL646: Advanced Topics in Databases**, taught by Prof. Demetris Zeinalipour
  https://www.cs.ucy.ac.cy/~dzeina/courses/epl646/

- **EPL342 - Databases**, taught by Prof. Demetris Zeinalipour and Dr. Panayiotis G. Andreou
  https://www.cs.ucy.ac.cy/~dzeina/courses/epl342/

- **EPL451 - Data Mining on the Web**, taught by Prof. George Pallis
  http://www.cs.ucy.ac.cy/courses/EPL451/

- **EPL233 - Object-Oriented Programming**, taught by Prof. Georgia Kapitsaki, Dr. Panayiotis G. Andreou and Dr. Demetris Trihinas
  https://www.cs.ucy.ac.cy/~dzeina/courses/epl233/

- **EPL231 - Data Structures and Algorithms**, taught by Prof. George Pallis
  https://www.cs.ucy.ac.cy/~dzeina/courses/epl231/

- **EPL031 - Introduction to Programming**, taught by Prof. Fudos Ioannis
  http://moodle.cs.ucy.ac.cy/course/info.php?id=101

XII. ADVISING

- **MS Thesis Supervised:**

  - Arun Balajiee Lekshmi Narayanan, MS Students, "Embedding indices and bloom filters in parquet files for fast Apache arrow retrievals", Department of CS, University of Pittsburgh, Pittsburgh, PA, USA, 2020. (Co-advised with Panos Chrysanthis)

  - Vasilis Ethan Sarris, BS/MS Student, "Comparing Forms of Indoor Congestion Modeling", Department of CS, University of Pittsburgh, Pittsburgh, PA, USA, 2022. (Co-advised with Panos Chrysanthis)

  - Benjamin Graybill, BS/MS Student, "CovidReduce/CAPRIO", Department of CS, University of Pittsburgh, Pittsburgh, PA, USA, 2021. (Co-advised with Panos Chrysanthis)

- **BS Internships/Capstone Projects Supervised:**
  - Lucas Leiby, BSc, "Thinking Inclusively with CAPRIO", Department of CS, University of Pittsburgh, Pittsburgh, PA, USA, 2021. (Co-advised with Panos Chrysanthis)
  - Sayantani Bhattacharjee, Student Intern, "CovidReduce/CAPRIO", Department of CS, University of Pittsburgh, Pittsburgh, PA, USA, 2021. (Co-advised with Panos Chrysanthis)
  - Robert Kline, BSc, "CAPRIO v2: Accessibility Information", Department of CS, University of Pittsburgh, Pittsburgh, PA, USA, 2021. (Co-advised with Panos Chrysanthis)
  - Evan Kiebler and Evan McEllhenny, BSc Students, "Context-Aware Path Recommendation", Department of CS, University of Pittsburgh, Pittsburgh, PA, USA, 2019. (Co-advised with Panos Chrysanthis)
- **Other Advising:**
  - Marios Vladimirou, Panayiotis Eracleous, Philippos Papaphilippou, Philokypros Ioulianou, Winning in National ImagineCup contest (Rainbow Beams), Department of CS, University of Cyprus, Cyprus, 2014.

XIII. LANGUAGES

- Greek (native)
- English (fluent)

XIV. PERSONAL INFORMATION

- Gender: Male
- Place of Birth: Limassol/Cyprus
- Nationality: Cypriot

XV. REFERENCES

- **Demetris Zeinalipour**

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