ΦΟΡΕΑΣ ΔΙΑΣΦΑΛΙΣΗΣ ΚΑΙ ΠΙΣΤΟΠΟΙΗΣΗΣ ΤΗΣ ΠΟΙΟΤΗΤΑΣ ΤΗΣ ΑΝΩΤΕΡΗΣ ΕΚΠΑΙΔΕΥΣΗΣ

ΔΙΠΑΕ CYQAA

CYPRUS AGENCY OF QUALITY ASSURANCE AND ACCREDITATION IN HIGHER EDUCATION

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## Academic Personnel Short Profile / Short CV

| | |
|---|---|
| **University:** | Neapolis University Pafos |
| **Surname:** | Kakoulli |
| **Name:** | Elena |
| **Rank/Position:** | Assistant Professor |
| **Faculty:** | Economics, Administration and Computer Science |
| **Department:** | Computer Science |
| **Scientific Domain: *** | Information Systems |

*\* Field of Specialization*

| Academic qualifications (list by highest qualification) | | | | |
|---|---|---|---|---|
| Qualification | Year | Awarding Institution | Department | Thesis title (Optional Entry) |
| Ph.D. | 2015 | Cyprus University of Technology | Computer Engineering & Informatics | Development of methodologies to enhance the performance of networks-on-chips in Chip Multiprocessor architectures |
| M.Sc. | 2009 | University of Cyprus | Computer Science | Mobility for Coverage Control in Wireless Sensor Networks |
| B.Sc. | 2007 | University of Cyprus | Computer Science | |
| Secondary B.Sc. (Minor) | 2007 | University of Cyprus | Electrical Engineering and Computer Engineering | |

| Employment history in Academic Institutions/Research Centers – List by the three (3) most recent | | | | |
|---|---|---|---|---|
| Period of employment | | Employer | Location | Position |
| From | To | | | |
| 7/2025 | Now | Neapolis University Pafos | Paphos, Cyprus | Assistant Professor |
| 10/2019 | 6/2025 | Neapolis University Pafos | Paphos, Cyprus | Lecturer |
| 9/2018 | 6/2022 | Cyprus University of Technology | Limassol, Cyprus | Special Scientist |

| Key _refereed_ journal papers, monographs, books, conference publications etc. List the five (5) more recent and other five (5) selected –(max total 10) | | | | | | |
|---|---|---|---|---|---|---|
| Ref. Number | Year | Title | Other authors | Journal and Publisher / Conference | Vol. | Pages |
| 1 | 2025 | Integrating Cognitive Models into Network-on-Chip Architectures for Resilient and Adaptive Autonomous Systems | | Proceedings of the 3rd Cognitive Models and Artificial Intelligence Conference (AICCONF2025) | 1346 | 460–475 |
| 2 | 2025 | XMeta-OS: A Conceptual Framework for Unified Resource Management in Distributed Edge-Cloud Environments | Eleftherios Zacharioudakis, Salomi Evripidou | Lecture Notes in Networks and Systems (LNNS) | 1058 | 411-430 |
| 3 | 2025 | Intelligent Cyber Defense: Leveraging LLMs for Real-Time Threat Detection and Analysis | Eleftherios Zacharioudakis, Salomi Evripidou | Information Systems: 21st European, Mediterranean, and Middle Eastern Conference, EMCIS 2024, Athens, Greece, September | 535 | 58–73 |

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| | | | | 2–3, 2024, Proceedings, Part II | | |
| 4 | 2024 | Survey on Cryptoprocessors Advances and Technological Trends | Eleftherios Zacharioudakis | Proceedings of the Third International Conference on Innovations in Computing Research (ICR'24) | | |
| 5 | 2024 | Exploring the Integration of Educational Robotics and the Internet of Things in Learning Environments | Salomi Evripidou | Proceedings of the 20th International Conference on Distributed Computing in Smart Systems and the Internet of Things (DCOSS-IoT) | | |
| 6 | 2024 | Latest Innovations in Intelligent Network-on-Chip Architectures: A Systematic Review | | 17th International Workshop on Network on Chip Architectures (NoCArc), co-located with 57th Annual IEEE/ACM International Symposium on Microarchitecture (MICRO), 2024 | | |
| 7 | 2023 | Cost-based Data Prefetching and Scheduling in Big Data Platforms over Tiered Storage Systems | H. Herodotou | ACM Transactions on Database Systems | 48 | 40 |
| 8 | 2021 | Trident: Task Scheduling over Tiered Storage Systems in Big Data Platforms | H. Herodotou | Proc. of VLDB Endowment (PVLDB) | 14 | 1570-1582 |
| 9 | 2019 | Automating Distributed Tiered Storage Management in Cluster Computing | H. Herodotou | Proc. of VLDB Endowment (PVLDB) | 13 | 43-56 |

| 10 | 2017 | OctopusFS: A Distributed File System with Tiered Storage Management | H. Herodotou | In Proceedings of the ACM International Conference on Management of Data (SIGMOD '17) | | 65-78 |
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| Exhibitions (where applicable). List the five (5) more recent and other five (5) selected. (max total 10) | | | | | |
|---|---|---|---|---|---|
| **Ref. Number** | **Date** | **Topic** | **International / Local** | **Location*** | **Role in Exhibition** |
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*Specify venue, geographic location etc

| Research Projects. List the five (5) more recent and other five (5) selected (max total 10) | | | | |
|---|---|---|---|---|
| Ref. Number | Date | Title | Funded by | Project Role* |
| 1 | 8/2022 – 8/2023 | ML-SMACC: Machine Learning-based Data Management for a Smart Cloud Caching System | Cyprus University of Technology | Project Coordinator & Postgraduate Researcher |
| 2 | 6/2021 - 2023 | Sharing my Learning (Platform-Network-Toolkit) | European Commission (Erasmus+) | Research Team Member |
| 3 | 2/2016 - 5/2017 | Distributed Multi-tier Storage for Cluster Computing | Cyprus University of Technology Startup Grant | Research Associate |
| 4 | 06/2012 - 11/2014 | Exploring high-throughput multidimentional on-chip interconnection network topologies and architectures using in-silicon photonic interconnects. | Cyprus Research Organization (PENEK/0311/06) | Young Researcher |
| 5 | 2010-2012 | Energy-Efficient Embedded and Mobile Multiprocessor System-on-Chip Architectures | Cyprus Research Organization (ΤΠΕ/ΠΛΗΡΟ/0308(ΒΙΕ)/04) | Postgraduate Researcher |
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*Project Role: i.e. Scientific/Project Coordinator, Research Team Member, Researcher, Assistant Researcher, other

| Academic Consulting Services and/or Participation in Councils / Boards/ Editorial Committees. List the five (5) more recent (Optional Entry) | | | | |
|---|---|---|---|---|
| **Ref. Number** | **Period** | **Organization** | **Title of Position or Service** | **Key Activities** |
| 1 | 11-12 September 2025 | 22nd European Mediterranean & Middle Eastern Conference on Information Systems (EMCIS) | Conference Chair | Organizing of the Conference & Coordination of the Conference |
| 2 | 2025-2026 | The 2026 International Conference on Breakthroughs in Artificial Intelligence (BAI'26) | Member in Program Committee | |
| 3 | 2025-2026 | The 2025 International Conference on Security and Management (SAM'25) | Member in Program Committee | |
| 4 | 2024-2026 | The International Conference on Innovations in Computing Research (ICR) | Sessions/Workshop Chair (Member in Organization Committee) | |
| 5 | 2022-2025 | International Workshop on Network on Chip Architectures (NoCArc), co-located with Annual IEEE/ACM International Symposium on Microarchitecture (MICRO) | Member in Technical Program Committee (TPC) | |

| Awards / International Recognition (where applicable). List the five (5) more recent and other five (5) selected. (max total 10) (Optional Entry) | | | |
|---|---|---|---|
| Ref. Number | Date | Title | Awarded by: |
| 1 | 06/2009 | 1st Prize in the Postgraduate Program of Advanced Technologies of Information Technology at the level of Master's Degree | University of Cyprus |
| 2 | 06/2009 | Received "Marios Tsakalakis" Prize | University of Cyprus & Marfin Laiki Bank |
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| Other Achievements. List the five (5) more recent and other five (5) selected. (max total 10) (Optional Entry) | | | |
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| Ref. Number | Date | Title | Key Activities: |
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