

George Pallis, Professor, Computer Science Department, University of Cyprus

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George Pallis received his BSc (2001) and Ph.D. (2006) degree in Department of Informatics of Aristotle University of Thessaloniki (Greece). Currently, he is professor at the Computer Science Department, University of Cyprus and Associate Director of Laboratory of Internet Computing. His research interests include Distributed and Internet Computing with particular focus on Big Data Analytics, and Cloud/Edge/Fog Computing. Dr. Pallis is one of the programme directors of the Data Science Master programme at University of Cyprus. He is principal institutional investigator in research projects funded by EC, Research Promotion Foundation in Cyprus, and industry (e.g., Google) and has totally attracted more than 5.5M euro. Dr. Pallis has published over 100 papers in international journals (e.g., IEEE TKDE, IEEE TCC, IEEE TSC, ACM TOIT,

Scientific Reports etc), magazines (e.g., CACM, IEEE Internet Computing) and conferences (e.g., INFOCOM, IPDPS, ICDCS, SEC, IoTDi, ICWSM, BIG DATA etc) and he is contributor of two international DIN (German Institute for Standardization) standards. His papers have been cited more than 5600 times with h-index 30 (Source: Google Scholar). Dr. Pallis has served as PC-Co-chair of CloudCom 2018 and CCGrid 2019 and General Chair of ACM/IEEE SEC 2024 and general co-chair IEEE IC2E 2024 conferences. Dr. Pallis has also served in numerous Program and Organization Committees for international conferences (WWW, ICDCS, CONEXT, BIG DATA etc.) and he received the best paper awards in IEEE CloudCom 2024, IEEE/ACM UCC 2023, IEEE IoTDi 2022, IEEE ISCC 2022, IEEE BIG DATA 2016, ICSOC 2014 and the best demo award in the ACM/IEEE Symposium on Edge Computing. In 2019, Dr. Pallis served as guest editor for the edge computing special issue on the prestigious Proceedings of the IEEE journal. Dr Pallis is appeared in the World's Top 2% Scientists list published by Stanford University and he is golden core member of IEEE Computer Society. He was Editor in Chief (EIC) in the IEEE Internet Computing magazine (2019-2023) and Associate Editor in the IEEE Transactions on Cloud Computing. Currently, he is EIC Emeritus in the IEEE Internet Computing magazine and Associate Editor in the Computing Journal (Springer).

Research Highlights

Editorial Activities

- **Editor in Chief** in IEEE Internet Computing Magazine (2019-2023)
- **Editorial board member** of IEEE Transactions on Cloud Computing (2020-2022)
- **Editor in Chief Emeritus** in IEEE Internet Computing Magazine (2024-present)
- **Editorial board member** of Computing Journal
- **Editorial board member** in IEEE Reliability Magazine
- **Guest editorial** in IEEE Proceedings Journal
- **AdCom member (elected)** in IEEE Reliability Society (2022-present)

5,5 M EURO R&D Funding at UCY

- **Scientific and/or Technical Coordinator** of RAINBOW H2020 project (Budget: 5M EUR – UCY: 501K EUR), UNICORN H2020 project (Budget: 4.1M EUR – UCY: 675K EUR), ICARUS H2020 project (Budget: 4M EUR – UCY: 279K EUR) and PaaSPort FP7 project (Budget: 2.1M EUR – UCY: 280K EUR).
- **Training Coordinator of RAIS Marie Curie ITN** (Budget: 3.6M EURO – UCY: 707K EURO)
- **Co-Principal Institutional Investigator** for AI-DAPT Horizon Europe project (Budget: 9M EUR – UCY: 435K EUR), ATHENA Horizon Europe Project (Budget: 3,2M EUR – UCY: 260K EUR), HoLoCIM, RIF (Budget: 600K EUR – UCY: 290K EUR), SYNERGY H2020 project (Budget: 10 Million EUR – UCY: 358K EUR), iSocial Marie Curie ITN Project, FP7 (Budget: 3.7 Million EUR – UCY: 650K EUR) and MANDOLA, Monitoring DG-JUSTICE, EU (Budget: 1 Million EUR – UCY: 150K EUR), CELAR FP7 (Budget: 3.5 Million EUR – UCY: 590,000 EUR), PERSONAS, RPF (Budget: 200K EUR – UCY: 63K EUR), ARRANGE-

ICT ERASMUS+ (Budget: 202K EUR – UCY: 34K EUR), 3 COMPLIMENTARY PROJECTS, RPF (Total budget: 75K EUR), AdaptoFlow (TrialsNet Horizon Europe - Budget: 200K EUR UCY: 106K EUR, April 2024), GreenAnalyzer (aerOS Horizon Europe - Budget: 60K, April 2024), PowerStorm (6G Sandbox Horizon Europe- Budget: 30K, April 2024)

- **Google DNI grant** for fake news identification on Social media

Publications

- **Over 100 publications in journals (IEEE TCC, IEEE TSC, Scientific Reports etc) and conferences (INFOCOM, SEC, IoTDi, ICDCS, ICWSM, ASONAM, Big Data etc).**
- **7 Awards in top-tier conferences:** Best Paper in IEEE CloudCom 2023, Best Paper (2nd place) in IEEE/ACM UCC 2023, Best Paper in IEEE IoTDi 2022, Best student paper in IEEE ISCC 2022, Best Paper in IEEE BigData 2016 (900 registered participants / 79 regular papers selected from 423 full paper submissions from 1597 authors and co-authors at 40 countries), Best Paper in ICSOC 2014 (24 regular papers selected from 160 full paper submissions), Best Demo in IEEE/ACM SEC 2020 Conference.
- **5600+ citations, h-index: 30** – source: Google Scholar

Awards

- **World's Top 2% Scientists list** – source:
<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/3>
- **Golden core member of IEEE Computer Society (2024 – present)**
<https://www.computer.org/volunteering/awards/golden-core>

International Standards Contribution

- Contributor of the **international DIN (German Institute for Standardization) SPEC standard for "A unified and portable cloud application management"**
- Contributor of the **DIN (German Institute for Standardization) CEN standard for analytics insights and scaling policies for Microservices**

Conferences Organization/Participation

- **General co-Chair in IEEE IC2E 2024**
- **General Chair in IEEE/ACM SEC 2024**
- **General Co-Chair in GEC 2024**
- **Program Co-Chair of CloudCom 2018, CCGrid 2019 conferences**
- **Steering Committee member in CCGrid**
- Participating in **100+ Programme Committees** and **25+ Organization Committees** for International Conferences/Workshops

Phd Supervision/co-supervision

- **5 Phd students** in topics (Fog Computing Benchmarking; Big Data Applications in Entrepreneurship; AI-driven automation for data pipelines; Exercise Habits and Social Contagion Patterns)
- **5 Phd students** defended their Phd thesis
- **External Examiner for 14 PhD students** at other Institutions

Funded Projects

Scientific Leader/Principal Investigator (PI)

- **AIDAPT: AI-Ops Framework for Automated, Intelligent and Reliable Data/AI Pipelines Lifecycle with Humans-in-the-Loop and Coupling of Hybrid Science-Guided and AI Models, HORIZON-CL4-2023-HUMAN-01-01: Grant Agreement: 101135826. (1/2024-6/2027).** Budget: 4 Million EUR – UCY: 435,000 EUR.

- ATHENA: An exposition on The forEign information mAnipulation and interference. HORIZON-CL2-2023-DEMOCRACY-01 (11/2023 – 10/2026) Budget: 3.2 Million EUR – UCY: 260,000 EUR.
- HOLOCIM : A Virtualized Holographic Cloud Ising Machine, CODEVELOP-ICT-HEALTH/0322/0047 (2/2023-1/2025). Budget: 600,000 EUR – UCY: 290,000 EUR.
- AdaptoFlow. TrialsNet Horizon Europe - Horizon-JU-SNS-2022 Research and Innovation Programme under Grant Agreement No. 101095871 (6/2024-12/2025): Budget: 200K EUR UCY: 106K EUR.
- GreenAnalyzer – aerOS Horizon Europe HE-CL4-2021-DATA-01-05 (6/2024-8/2025) UCY Budget: 60K EUR
- PowerStorm – Energy-Aware Streaming Analytics Job Scheduling for 5G/6G Deployments. 6G Sandbox Horizon Europe HORIZON-JU-SNS-2022-STREAM-C-01-01 (6/2024 – 5/2025). UCY Budget: 30K EUR.
- SYNERGY - A Big Data and AI Analytics Platform - Horizon 2020 Research and Innovation program under Grant Agreement No 872734. Budget: 10 Million EUR – UCY: 358K EUR
- RAIS: Real-time Analytics for the Internet of Sports - H2020-MSCA-ITN-2018 - ETN. Training Coordinator. Budget: 3.6 Million EUR – UCY: 707,500 EUR.
- UNICORN - A Novel Framework For Multi-Cloud Services Development, Orchestration, Deployment And Continuous Management Fostering Cloud Technologies Uptake From Digital SMEs/Startups, Horizon 2020 Project, EU (1/1/2017-31/12/2020). Scientific manager. Budget: 4.1 Million EUR – UCY: 675,000 EUR.
- ICARUS - Aviation -driven Data Value Chain for Diversified Global and Local Operations Grand: EU-H2020 (01/01/2018-31/12/2020) Scientific coordinator. Budget: 3,951,125 EUR – UCY: 278,750 EUR.
- ENEDI - Energy Saving in Public Academic Buildings with Data Centers. UCY Budget: 332,200 EURO Total Budget: 1,014,785 EUR
- Check-it - vizualising fake news on social media (Google DNI) Budget: 50,000 EUR.
- PERSONAS - Situational Awareness, Control and Security Policies Enforcement on Multiple Virtualization Personas of Personal Devices (Research in Enterprises, Research Promotion Foundation, Oct 2018 - Sep. 2020). UCY Budget: 63K EURO Total Budget: 200K EUR.
- ARRANGE-ICT (Erasmus+) Budget: 202K EUR – UCY: 34,100 EUR. ARRANGE-ICT is awarded and selected among the top Erasmus+ project in Europe
- Internet of Sports Testbed - Complementary Funding, RPF PI: G. Pallis. Budget: 35,375 EUR. (03/2019-12/2021)
- ICARUS dashboard - Complementary Funding, RPF PI: G. Pallis. Budget: 13,937 EUR. (04/2018-12/2020)
- Mandola – MANDOLA, Monitoring and Detecting OnLine Hate Speech DG-JUSTICE, EU (1/10/2015-30/9/2017). Budget: 1 Million EUR – UCY: 150,000 EUR.
- CELAR - Automatic, multi-grained elasticity-provisioning for the Cloud. FP7 Project, EU (10/2012-9/2015). Budget: 3.5 Million EUR – UCY: 590,000 EUR. CELAR FP7 – Impact: Selected as Key innovator by EC Innovation Radar Platform.
- iSocial – Decentralized Social Networks, Marie Curie ITN Project, FP7, EU(10/2012-9/2016). Budget: 3.7 Million EUR – UCY: 650,000 EUR.
- PaaSPort – A Semantically-enhanced Marketplace of interoperable Platform-as-a-service Offerings for the deployment and migration of business applications of European software SMEs. FP7-SME-2012. Technical Coordinator. Budget: 2.1 Million EUR – UCY: 280,000 EUR.
- Nephelae Cloud Computing Infrastructure, Startup funding, UCY. Budget: 85,000 EUR.
- e-Tracer: An Innovative Object Tracking and Tracing Platform. Budget: 39,400 EUR.

Participant

- MAI4CAREU: Masters in AI for Careers in EU, 2020-EU-IA-0087, co-financed by the EU CEF Telecom under GA nr. INEA/CEF/ICT/A2020/2267423 (1/6/2021 – 31/5/2024). (Budget: 887,772 EUR, UCY Budget: 236K EUR) (PI: E. Keravnou)

- ONISILOS - Marie Skłodowska-Curie Action (2/1/2022-1/1/2027). €3.678 million (PI: M. Demetriadis)
- CTIP: Cyber Threat Intelligence Platform (12/2021-11/2023). Funded by National CSIRT-CY (UCY budget 335 K EUR) (PI: V. Vasileiou)
- DIDACTOR Research Grant, Research & Innovation Foundation, Cyprus, SUCCESSNet: The impact of Social Network Presence on Success, (UCY budget 120 K EUR) (PI: C. Nicolaides).

Selected Publications (last 5 years)

International Journals and Magazines (referred)

1. G Ioannou, G Pallis, M Dikaiakos, C Nicolaides. Utilizing large-scale human mobility data to identify determinants of physical activity, Scientific Reports (forthcoming, 2025)
2. D. Paschalides, G. Pallis, M. Dikaiakos: A Framework for the Unsupervised Modeling and Extraction of Polarization Knowledge from News Media. ACM Transactions on Social Computing, 2024.
3. N. Petrou, C. Christodoulou, A. Anastasiou, G. Pallis, M. Dikaiakos. A Multiple change-point detection framework on linguistic characteristics of real versus fake news articles, Scientific Reports (Nature) Journal, 2023.
4. M. Dikaiakos, N. G. Chatzigeorgiou, A. Tryfonos, A. Andreou, N. Loulloudes, G. Pallis, G. E. Georgiou. A cyber-physical management system for medium-scale solar-powered data centers. Concurrency and Computation: Practice and Experience, Willey, 2023.
5. D. Stefanidis, N. Nicolaou, S. P. Charitonos, G. Pallis, M. Dikaiakos "What's in a face? Facial appearance associated with emergence but not success in entrepreneurship", The Leadership Quarterly Journal, Volume , Pages: 101597, 2022.
6. J. Waters, N. Nicolaou, D. Stefanidis, H. Efstathiades, G. Pallis, M. Dikaiakos "Exploring the sentiment of entrepreneurs on Twitter", PLOS ONE Public Library of Science, Volume 16, Pages: 1-25, 2021.
7. D. Paschalides, C. Christodoulou, K. Orphanou, R. Andreou, A. Kornilakis, G. Pallis, M. D. Dikaiakos, Ev. P. Markatos: Check-It: A plugin for detecting fake news on the web. Online Soc. Networks Media 25: 100156 (2021)
8. J. Georgiou, C. Christodoulou, G. Pallis, M. D. Dikaiakos: The ICARUS Ontology: A General Aviation Ontology. ERCIM News 2021(125) (2021)
9. D. Paschalides, D. Stephanidis, A. Andreou, K. Orphanou, G. Pallis, M. D. Dikaiakos, E. P. Markatos: MANDOLA: A Big-Data Processing and Visualization Platform for Monitoring and Detecting Online Hate Speech. ACM Trans. Internet Techn. 20(2): 11:1-11:21 (2020)
10. D. Trihinas, George Pallis, Marios D. Dikaiakos: Low-Cost Adaptive Monitoring Techniques for the Internet of Things. IEEE Trans. Serv. Comput. 14(2): 487-501 (2021)
11. G. Pallis: The Impact of Internet Computing in the COVID-19 Era. IEEE Internet Computing, 24(5): 5-6 (2020)
12. G. Pallis: A new era of Internet Computing is coming. IEEE Internet Computing, Jan/Feb, Volume 23, Issue 4, 2019.

Conferences/Workshops (referred)

1. D. Paschalides, G. Pallis, M. Dikaiakos. Adopting Beliefs or Superficial Mimicry? Investigating Nuanced Ideological Manipulation of LLMs. Submitted to International AAAI Conference on Web and Social Media (ICWSM 2025)
2. M. Symeonides, N. Tsiopani, G. Maouris, D. Trihinas, G. Pallis, M. Dikaiakos. CarbonOracle: Automating Energy Mix & Renewable Energy Source Forecast Modeling for Carbon-Aware Micro Data Centers. Submitted to 17th IEEE/ACM International Conference on Utility and Cloud Computing 2025.
3. D. Stefanidis, G. Pallis, M. Dikaiakos, N. Nikolaou. GNN and LLM Insights: Multimodal Cues and Gender Disparities in Video Conversations, accepted at the International AAAI Conference on Web and Social Media (ICWSM 2025).

4. D. Paschalides, G. Pallis, M. Dikaiakos. PARALLAX: Leveraging Polarization Knowledge Graph for Misinformation Detection. The 16th International Conference on Advances in Social Networks Analysis and Mining - ASONAM 2024 University of Calabria, Rende (CS), Calabria, Italy, September 02-05, 2024.
5. G. Ioannou, T. Machiorro, C. Nicolaides, G. Pallis, E. Markatos. Evaluating the utility of human mobility data under local differential privacy. Proceedings of the 25th IEEE International Conference on Mobile Data Management (MDM), June 24 - June 27, 2024 Brussels, Belgium.
6. S. Koussouris, T. Dalamadas, P. Figueiras, G. Pallis, N. Bountouni, V. Gkolemis, K. Perakis, D. Bibikas, C. Agostinho. Bridging Data and AIOps for Future AI Advancements with Human-in-the-loop: the AI-DAPT, 30th ICE IEEE/ITMC Conference (ICE 2024) 24 - 28 June 2024, Funchal - Madeira Island.
7. D. Trihinas, M. Symeonides, J. Georgiou, G. Pallis, M. Dikaiakos. "Energy-Aware Streaming Analytics Job Scheduling for Edge Computing", Proceedings of the 14th IEEE International Conference on Cloud Computing TEchnology and Science" (CloudCom '23), 2023, **Best paper award**.
8. M. Symeonides, F. Nikolaidis, D. Trihinas, G. Pallis, M. Dikaiakos, "FedBed: Benchmarking Federated Learning over Virtualized Edge Testbeds", Angelos Bilas, "Proceedings of the 16th IEEE International Conference on Utility and Cloud Computing" (UCC '23), 2023. **Best paper award (2nd place)**.
9. M. Symeonides, D. Trihinas, G. Pallis, M. Dikaiakos, "SparkEdgeEmu: An Emulation Framework for Edge-Enabled Apache Spark Deployments", "Proceedings of the 29th International European Conference on Parallel and Distributed Computing" (EuroPar '23), 2023.
10. M. Kasioulis, M. Symeonides, G. Pallis, M. D. Dikaiakos: Power Estimation Models for Edge Computing Devices. Euro-Par Workshops (1) 2023: 257-269
11. M. Symeonides, D. Trihinas, G. Pallis, M.D Dikaiakos, C. Psomas, and I. Krikidis. 5G-Slicer: An emulator for mobile IoT applications deployed over 5G network slices. In Proceedings of the 7th ACM/IEEE Conference on Internet of Things Design and Implementation, of IoTDI 2022, 2022. **Best Paper award**.
12. J. Georgiou, M. Symeonides, M. Kasioulis, D. Trihinas, G. Pallis, M. Dikaiakos. BenchPilot: Repeatable & Reproducible Benchmarking for Edge Micro-DCs. In Proceedings of the 27th IEEE Symposium on Computers and Communications, of ISCC 2022, 2022. **Best Student Paper award**.
13. D. Paschalides, G. Pallis, M. D. Dikaiakos: POLAR: a holistic framework for the modelling of polarization and identification of polarizing topics in news media. International Conference on Advances in Social Networks Analysis and Mining (ASONAM 2021), Virtual Event, The Netherlands, pp. : 348-355. November 8 - 11, 2021.
14. D. Paschalides, C. Christodoulou, K. Orphanou, R. Andreou, A. Kornilakis, G. Pallis, M. D. Dikaiakos, E. P. Markatos: Check-It: A plugin for detecting fake news on the web. Online Soc. Networks Media Journal 25: 100156 (2021)
15. L. Giarretta, I. Savvidis, T. Marchioro, S. Girdzijauskas, G. Pallis, M. D. Dikaiakos, Evangelos P. Markatos: PDS2: A user-centered decentralized marketplace for privacy preserving data processing. 37th IEEE International Conference on Data Engineering Workshops, ICDE Workshops 2021, pp. 92-99, Chania, Greece, April 19-22, 2021.
16. Z. Georgiou, C. Georgiou, G. Pallis, E. M. Schiller, D. Trihinas. A Self-stabilizing Control Plane for the Edge. "Proceedings of the 13th IEEE/ACM International Conference on Utility and Cloud Computing" (IEEE/ACM UCC '20), 2020.
17. M. Symeonides, Z. Georgiou, D. Trihinas, G. Pallis and M. D. Dikaiakos. "Fogify: A Fog Computing Emulation Framework" accepted for publication at the Fifth ACM/IEEE Symposium on Edge Computing (SEC '20).
18. D. Stefanidis, C. Christodoulou, M. Symeonidis, G. Pallis, M. D. Dikaiakos, L. Pouis, K. Orphanou, F. Lampathaki, D. Alexandrou: The ICARUS Ontology: A general aviation ontology developed using a multi-layer approach. The 10th International Conference on Web

Intelligence, Mining and Semantics, WIMS 2020: 21-32, Biarritz, France, June 30 - July 3, 2020.

19. M. Symeonides, D. Trihinas, Z. Georgiou, G. Pallis and M. D. Dikaiakos. Query-Driven Descriptive Analytics for IoT and Edge Computing. Proceedings of IEEE IC2E Conference, Prague, Czech Republic, June, 2019.
20. D. Paschalides, A. Kornilakis, C. Christodoulou, R. Andreou, G. Pallis, M. D. Dikaiakos, E. P. Markatos: Check-It: A plugin for Detecting and Reducing the Spread of Fake News and Misinformation on the Web. WI 2019: 298-302