

Ioannis Chatzigiannakis

Curriculum Vitae

Rome, 02/07/2024

Part I – General Information

Full Name	Ioannis Chatzigiannakis
Date of Birth	
Place of Birth	
Citizenship	
Permanent Address	
Mobile Phone Number	
E-mail	
Spoken Languages	Greek, Italian, English

Part II – Education

Type	Year	Institution	Degree
University graduation	1997	University of Kent at Canterbury, UK	Bachelor of Engineering with Honors in Computer Systems Engineering
PhD	2003	University of Patras, Greece	Ph.D. in Computer Science Title: “Design and Analysis of Distributed Algorithms for Basic Communication in Ad-hoc Mobile Networks”

Part III – Appointments

IIIA – Academic Appointments

Start	End	Institution	Position
2014/11	Today	Sapienza University of Rome, Italy	Associate Professor
2014/02	2014/03	University of Liverpool, UK	Visiting Research Fellow
2013/03	2013/05	Sapienza University of Rome, Italy	Visiting Professor
2013/02	2013/02	University of Lubeck, Germany	Visiting Professor
2007/11	2014/09	Computer Technology Institute & Press “Diophantus”, Greece	Senior Researcher and Head of Research Unit 1
2005/09	2013/01	University of Patras, Greece	Adjunct Professor
2004/09	2005/08	University of Patras, Greece	Postdoc Researcher
2000/01	2003/08	Computer Technology Institute, Greece	Junior Researcher

IIIB – Other Appointments

Start	End	Institution	Position
2018/11	Today	Interdisciplinary Center Sapienza Design Research (SDR), Sapienza University of Rome, Italy	Steering Committee Member
2016/01	Today	Spark Works Ltd, Ireland	VP Engineering and Co-founder
2019/05	2022/05	Amazon Web Services (AWS)	AWS Educate Cloud Ambassador
2013/10	2014/12	Sensorflare PC, Greece	CEO and Co-founder
2011/05	2013/12	Oplon Games PC, Greece	CTO and Co-founder
2008/08	2020/07	European Association of Theoretical Computer Science (EATCS)	Secretary
2004/05	2007/05	Research & Academic Computer Technology Institute, Greece	R&D Engineer
2001/01	2003/12	Intrasoft International SA, Greece	Senior Developer
1999/11	2000/12	Intrasoft International SA, Greece	Junior Developer
1997/02	1999/06	AMVIS SA, Mark Aalen Superoptical, Sphinx Ltd, Vector SA	Business IT Consultant

Part IV – Teaching experience

IVA – Teaching experience in Bachelor and Master programs

Year	Institution	Lecture/Course
2022 – 2024 (2 semesters)	MSc in Computer Engineering, Faculty of Information Engineering, Informatics and Statistics, Sapienza University of Rome, Italy	Internet of Things: Algorithms and Services (3 of 6 CFU)
2020 – 2021 (1 semester)	Department of Informatics, Ionian University, Greece	AWS Core Services (Erasmus+)
2019 – 2022 (3 semesters)	MSc in Computer Engineering, Faculty of Information Engineering, Informatics and Statistics, Sapienza University of Rome, Italy	Internet of Things (3 of 6 CFU)
2019 – 2024 (5 semesters)	MSc in Product & Service Design, Faculty of Architecture, Sapienza University of Rome, Italy	Smart Objects (6 of 9 CFU)
2019 – 2020 (1 semester)	PhD in Computer Engineering, Department of Computer, Control and Management Engineering, Sapienza University of Rome, Italy	Smart Environments
2018 – 2019 (1 semesters)	MSc in Product & Service Design, Faculty of Architecture, Sapienza University of Rome, Italy	Smart Objects (3 of 9 CFU)
2017 – 2019 (2 semesters)	MSc in Computer Engineering, Faculty of Information Engineering, Informatics and Statistics, Sapienza University of Rome, Italy	Internet of Things (6 of 6 CFU)

2017 – 2024 (7 semesters)	BSc in BioInformatics, Faculty of Medicine, Sapienza University of Rome, Italy	Principles of Computer Science II (6 of 6 CFU)
2016 – 2017 (1 semester)	MSc in Computer Engineering, Faculty of Information Engineering, Informatics and Statistics, Sapienza University of Rome, Italy	Big Data Computing (3 of 6 CFU)
2015 – 2024 (9 semesters)	MSc in Data Science, Faculty of Information Engineering, Informatics and Statistics, Sapienza University of Rome, Italy	Algorithmic Methods of Data Mining and Laboratory (3 of 9 CFU)
2015 – 2017 (2 semesters)	MSc in Computer Engineering, Faculty of Information Engineering, Informatics and Statistics, Sapienza University of Rome, Italy	Data Mining (3 of 6 CFU)
2014 – 2017 (3 semesters)	MSc in Computer Engineering, Faculty of Information Engineering, Informatics and Statistics, Sapienza University of Rome, Italy	Pervasive Systems (6 of 6 CFU)
2012 – 2013 (1 semester)	MSc in Computer Engineering, Faculty of Information Engineering, Informatics and Statistics, Sapienza University of Rome, Italy	Modern Distributed Systems (3 of 3 CFU)
2012 – 2013 (1 semester)	MSc in Informatics, Institute of Telematics, University of Lubeck, Germany	Distributed Computing: Theory and Applications in the Future Internet (3 of 3 CFU)
2008 – 2011 (3 semesters)	MSc in Web Science, Department of Mathematics, Aristotle University of Thessaloniki, Greece	Knowledge Processing in the Web
2005 – 2013 (8 semesters)	BEng in Computer Engineering and Informatics, Department of Computer Engineering & Informatics, University of Patras, Greece	Distributed Systems I (6 of 6 CFU)
2005 – 2012 (7 semesters)	BEng in Computer Engineering and Informatics, Department of Computer Engineering & Informatics, University of Patras, Greece	Operating Systems Laboratory (6 of 6 CFU)
2005 – 2009 (4 semesters)	BEng in Computer Engineering and Informatics, Department of Computer Engineering & Informatics, University of Patras, Greece	Operating Systems (3 of 6 CFU)
2004 – 2012 (8 semesters)	BEng in Computer Engineering and Informatics, Department of Computer Engineering & Informatics, University of Patras, Greece	Distributed Systems II (3 of 3 CFU)

IVB – Advising / Supervising

- I have supervised the following Ph.D. students who have defended:
 - Maryam Kamal (defended 2024), Sapienza University of Rome, Italy
 - Dimitrios Amaxilatis (defended 2018), University of Patras, Greece
 - Kostantinos Chantzis (defended 2014), University of Geneva, Switzerland
 - George Mylonas (defended 2008), University of Patras, Greece

I have co-supervised the following Ph.D. students who have defended:

- Othon Michail (defended 2010), University of Patras, Greece
- Athanasios Kinalis (defended 2008), University of Patras, Greece

I am currently supervising the following Ph.D students:

- Stefano Milani, Sapienza University of Rome, Italy

I am currently co-supervising the following Ph.D. students:

- Daniel Jimenez, Sapienza University of Rome, Italy
- Efstratia Chita, Hellenic Open University, Greece
- Dimitrios Manias, Hellenic Open University, Greece
- Chrysanthi Giorgioti, Hellenic Open University, Greece
- Orestis Akrivopoulos, University of Patras, Greece

- I have served on the Ph.D. body of faculty of the Ph.D. program in Computer Engineering of Sapienza University of Rome, from 2014 up today and I am in the Ph.D. body of professors of the International Ph.D. program in Service Design for Public Sector of Sapienza University of Rome since 2023.
- I have supervised over 60 master theses in the master program of Computer Engineering, the master program in Data Science, the master program in Product & Service Design, and the master program of Sapienza University of Rome, Italy and the master program in Computer Engineering and Informatics of University of Patras, Greece.
- I have supervised over 50 theses in the bachelor of Computer and Systems Engineering and the bachelor of BioInformatics of Sapienza University of Rome, Italy and the bachelor of Computer Engineering and Informatics of University of Patras, Greece.

Part V - Society memberships, Awards and Honors

Year	Title
2023+	Since 2023 recognized by Academic Scientific Index among Top 2% of World Scientist and University Rankings ¹
2023	IEEE Senior Member Grade in recognition to my technical leadership and technical contributions
2022+	Since 2022 listed in the Stanford University Names World's Top 2% Scientists ²
2021	ACM Senior Member Grade in recognition to my technical leadership and technical contributions
2013	EPSA 2013 Best Practice Certificate recipient from the European Institute of Public Administration (EIPA), November, 2013, Maastricht, Netherland
2012	Award of Excellence from the Greek Ministry of Education, Religious Affairs, Culture and Athletics, December, 2012, Athens, Greece
2012	Third Prize Award of the IoT Challenge Competition, in 4th International Conference on Internet of Things, December, 2012, Wuxi, China
2012	Best Book Article (1 out of 3 selected articles) in Future Internet Assembly 2012, May, 2012, Aalborg, Denmark
2011	Best Business Proposal Award in 1st Panhellenic E-Business Competition - AEGEAN Startups, November 2011, Samos Island, Greece
2010	Best Video Award in 2nd International Conference on Internet of Things, December, 2010, Tokyo, Japan
2009	Golden Creative Showcase Award in 5th International ACM/SIGCHI Conference on Advances in Computer Entertainment (ACE), October, 2009, Athens, Greece
2008	Best IEEE Society Demo Award in 5th International IEEE Conference on Mobile Ad-hoc and Sensory Systems (MASS), October 2008, Atlanta, Georgia, USA.
2006	Distinguished Paper (1 out of 3 distinguished papers among 102 papers considered) in 4th ACM Workshop on Mobility Management and Wireless Access (MOBIWAC), October 2006, Torremolinos, Malaga, Spain.
2003	Distinguished Paper (1 out of 4 distinguished papers among 338 papers considered) in 9th International Conference on Parallel and Distributed Computing (EUROPAR), August 2003, University of Klagenfurt, Austria.

¹ <https://www.adscientificindex.com/scientist/ioannis-chatzigiannakis/1828391>

² <https://journals.plos.org/plosbiology/article?id=10.1371/journal.pbio.3000384>

Part VI - Funding Information [grants as PI-principal investigator or I-investigator]

Year	Title	Program	Grant value ³
2024	HERIT-ADAPT “HERItage and territory resilience through sustainable Tourism, climate change ADAPtation and ciTizen engagement” Grant agreement Euro-MED0200388	EU Euro-MED Enhancing sustainable tourism, RSO2.4: Promoting climate change adaptation and disaster risk prevention, resilience, taking into account eco-system based approaches	€ 281,700.00
2024	KURIU.IT	Amarena Company SRL	€ 55,000.00
2023	SCALE “Smart City ASEAN Learning Network” Grant agreement 101083278	H2020-Erasmus+ Capacity Building in Higher Education European Union program	€ 79,047.00
2023	XR2Learn “Leveraging the European XR industry technologies to empower immersive learning and training” Grant agreement 101092851	Horizon call HORIZON-CL4-2022-HUMAN-0	€ 4,584,687.50
2023	AC3 “Agile and Cognitive Cloud edge Continuum management” Grant agreement 101093129	Horizon call HORIZON-CL4-2022-DATA-01-02	€ 358,125.00
2023	“Holistic approach to dEvice-centRic cybersecurity of connected Medical dEVICES and In-Vitro DiagnosticS”	Ateneo	€ 14,000.00
2023	KURIU.IT	Amarena Company SRL	€ 55,000.00
2021	MIRA “Mixed Reality Ambientale. Un CMS per l'exhibit design museale”	Ministero dello sviluppo economico (MISE)	€ 91,769.66
2021	SPHeaD “Smart Personal Health-care Devices”	Ministero dello sviluppo economico (MISE)	€ 149,542.05
2021	ELEGANT “Secure and Seamless Edge-to-Cloud Analytics” Grant agreement 957286	H2020-EU-Industrial Leadership European Union program	€ 371,250.00
2019	EASYTOUR “Experience-oriented Search Engine for Touristics Products”	Ministero dello sviluppo economico (MISE)	€ 564,000.00
2019	IND4.0 “Master Degree in Industry 4.0” Grant agreement 610455-EPP-1-2019-1-MY-EPPKA2-CBHE-JP	H2020-Erasmus+ Capacity Building in Higher Education	€ 55,456.00
2019	SMARTWORKS “Smart Age-friendly Living and Working Environment” Grant agreement 826343	H2020-EU-Active Aging	€ 442,812.50
2018	E2DATA “European Extreme Performing Big Data Stacks” Grant agreement 780245	H2020-ICT-Big Data PPP	€ 315,375.00
2017	GameCAR “Gamification of EcoDriving Behaviours through Intelligent Management of dynamic car and driver information” Grant agreement 732068	H2020-ICT-Energy Efficiency	€ 116,900.00
2016	GAIA “Green Awareness in Action” Grant agreement 696029	H2020-ICT/Energy Efficiency	€ 304,144.50

³ The grant value considers only the funding received directly by the organization I was working for and not necessarily the entire grant value awarded by the funding agency.

2016	MEDICATION “Smart Medical Platform System Integration”	FSTP mechanism of H2020 project DIATOMIC (contract 761809, “Digital Innovation Hubs Boosting European Microelectronics Industry”) under Smart Anywhere Initiative (SEA)	€ 98,687.50
2016	SMARTBUY “Enhanced Buying Experiences in SMART CITIES” Grant agreement 687960	H2020-ICT/FIRE+	€ 383,750.00
2016	CARDIO “Enabling High-accuracy Wearable devices using Industrial Experimentation”	FSTP mechanism of H2020 project EuroCPS (contract 644090, “Cyber Physical Systems”) under Smart Anywhere Initiative (SEA)	€ 82,750.00
2015	“Designing Human-Agent Collectives for Sustainable Future Societies”	Ateneo	€ 16,500.00
2015	ORGANICITY “Co-creating smart cities of the future” Grant agreement 645198	H2020-ICT/FIRE+	€ 272,810.00
2014	HEART “Wearable Heart Monitoring System”	FSTP mechanism of FP7 project FI-ADOPT (contract 632868, “Future Internet Core Platform Adoption and Sustainability Enabler”) under Future Internet Public Private Partnership (FI-PPP)	€ 147,500.00
2013	PATRIOT “PATRas Instant Observation and Telemetry heart system” Grant agreement 1523/09.08.2012	Greek Secretariat for Research & Development (GRTD) Cooperation II	€ 260,500.00
2011	AGT “Algorithmic Game Theory” Grant agreement 377002	Greek Secretariat for Research & Development (GRTD) THALIS program	€ 150,000.00
2011	PEP “Advanced systems and services over wireless and mobile networks”	Greek Secretariat for Research & Development (GRTD) PEP program	€ 140,000.00
2010	SPITFIRE “Semantic-Service Provisioning for the Internet of Things using Future Internet Research by Experimentation” Grant agreement 258885	FP7-ICT/FIRE	€ 367,360.00
2010	SMARTSANTANDER Grant agreement 257992	FP7-ICT/FIRE	€ 228,906.00
2010	VITRO “Virtualized distributed platforms of smart Objects” Grant agreement 257245	FP7-ICT	€ 299,200.00
2009	ASPIS “Autonomous Surveillance in Public transport Infrastructure Systems” Grant agreement 218513	FP7-TRANSPORT	€ 298,650.00
2009	AUDIS “Acoustic Urban Threat Detector for Improved Surveillance Capabilities” Grant agreement A-0444-RT-GC	European Defence Agency Union JIP-FP	€ 499,000.00
2009	ROTA “Design and Development of a System Telecommand of Ships with	Greek Secretariat for Research & Development (GRTD) Cooperation I	€ 189,955.00

	Bidirectional to High-Speed Networking (VPN)" Grant agreement 09ΣYN-52-657		
2008	FRONTS "Foundations of Adaptive Networked Societies of Tiny Artefacts" Grant agreement 215270	FP7-FET PROACTIVE	€ 335,000.00
2008	WISEBED "Wireless Sensor Network Testbed" Grant agreement 224460	FP7-ICT/FIRE	€ 377,667.00
2008	PROSENSE "Promote, Mobilize, Reinforce and Integrate Wireless Sensor Networking Research and Researchers: Towards Pervasive Networking of WBC and the EU" Grant agreement 205494	FP7-ICT/REGPOT	€ 108,000.00
2005	AEOLUS "Algorithmic Principles for Building Efficient Overlay Computers" Grant agreement 15964	FP6-FET	€ 270,000.00
2004	DAEMON "Peer-to-Peer Sensor Networks"	Greek Secretariat for Research & Development (GRTD) PYTHAGORAS/EPEAEK	€ 68,000.00
2002	FLAGS "Foundational Aspects of Global Computing Systems" Grant agreement IST-2001-33116	FP5-FET	€ 308,000.00

Part VII – Research Activities

VIIA – Research Statement

Following my Ph.D. in May 2003, I have conducted research within the area of Information Systems Engineering and concentrated in the areas of Design and Analysis of Distributed Algorithms, Distributed & Edge Computing, Algorithm Engineering and Experimentation for the Internet of Things. In all these years, my research approach combined elements of design & theoretical analysis and prototype development & experimental analysis. I strongly believe that a suitable mix of theory and practice is crucial to get a better understanding of the fundamental and practical aspects of future networks.

My research has produced 1 monograph, 9 chapters in books, 49 articles appearing in refereed journal of international circulation, 151 papers published in conferences proceedings supported by ACM/IEEE/EATCS/IFIP. Google Scholar reports a total of 5965 citation, with an h-index of 43. These publications have been co-authored with more than 240 researchers from around the world. The publications have appeared in influential journals⁴ such as COMPUTER SCIENCE REVIEW (Impact Factor 12.9, CiteScore 22.4, Q1 for Theoretical Computer Science), JOURNAL OF AMBIENT INTELLIGENCE AND HUMANIZED COMPUTING (Impact Factor 3.662, CiteScore 9.6, ranked at Q1 for Computer Science) and NETWORK AND COMPUTER APPLICATIONS (Impact Factor 8.7, CiteScore 19.0, ranked at Q1 for Computer Networks and Communications) as well as in top-ranking conferences⁵ such as SENSYS in 2008 [class 1/A++], PODC in 2001 and 2008 [class 1/A+], ICALP in 2009 and 2013 [class 2/A], SPAA in 2005 and 2010 [class 2/A].

In terms of design & theoretical analysis, my research focuses on large-scale dynamic systems comprised of devices with diverse computational, communication and power resources that can carry out a large number of heterogeneous tasks related to the processing and analysis of data while at the same time ensuring the security and privacy of the network and maintaining a lower-power consumption profile.

Regarding the experimental research approach, my research works towards the realization of the vision of collective ambient intelligence, in terms of algorithm engineering, from the organization, exchange, and privacy-preserving analysis of data; and developing pilot applications interconnecting smart sensors and intelligent devices in a secure and privacy preserving manner with groups of peoples in real-world deployments.

Selected Lines of Research:

- *Cross-layer Network Management & Big Data Analysis in Internet of Things*: The proliferation of the IoT applications has significantly increased data generation across various fields such as informatics, urban planning, and economics. The International Data Corporation (IDC) predicts that the global data volume will reach a staggering 175 zettabytes by 2025. This explosion of data has created a growing need for the analysis of vast and diverse datasets produced by a multitude of IoT devices, often referred to as IoT big data. Within this diverse landscape of massive IoT use cases, emerging Low-Power Wide-Area Network (LPWAN) technologies introduce a uniform approach for creating global networks of devices for power-

⁴ For the Impact Factor of journals we refer to Journal Citation Reports by Clarivate (<https://jcr.clarivate.com>), for the classification of journals we refer to Scimago Journal Ranking (<https://www.scimagojr.com/>) and for the CiteScore ranking we refer to Scopus CiteScore (<https://www.elsevier.com/connect/editors-update/citescore-a-new-metric-to-help-you-choose-the-right-journal>)

⁵ For classification of conferences we refer to GII-GRIN-SCIE (GGS) Conference Rating

efficient and cost-effective integration of IoT data streams with cutting-edge web services across numerous specialized sectors.

This line of research investigates the design, analysis, development, and real-world experimentation of solutions for secure network operation in large-scale deployments of Internet of Things for the efficient execution of Big Data Analytics by following the Cloud-Edge Computing Continuum paradigm (CECC). The CECC has been proposed as an evolution of the traditional central ultra-high-end processing cloud into a continuum of collaborative processing elements distributed from the cloud to the network edge. Although LoRaWAN has served as an excellent starting point to integrate IoT infrastructures with cloud services and big data analytics, the centralized architecture faces certain bottlenecks when scaling up to large deployment areas. Until today, incorporating existing centralized and monolithic LPWAN architectures in the CECC faces multiple security-related implications. A series of interventions building upon protocols and network services are required for a complete secure solution to incorporate LPWAN architectures in CECC enabling faster data processing while reducing the transmission of sensitive data. The various components are implemented and deployed in the real-world where sensitive data are extracted from large number of embedded devices. The cross-layer optimization of the systems is evaluated in terms of scalability, security, privacy, network response and robustness.

- *Secure ubiquitous and mobile computing*: The line of research investigates the efficient and secure execution of Big Data Analytics in wearable embedded devices, also referred to as the Medical Internet of Things, to analyse the medical data. In this line of research secure, human-centric smart systems are designed, developed, and evaluated when operated as part of innovative smart city services targeting ambient assisted living for elderly. A series of digital therapeutics (DTx) are proposed for patients suffering from cardiovascular diseases or diabetes. A crucial element requirement of DTx is the confidentiality of the data collected. The design proposed differentiates the private space of the users and the trusted space of the healthcare institutes. Data in the private space should be kept private until the patient provides consent for the healthcare institute to collect and analyse data. While data on the trusted space should provide guarantees that their processing through the CECC are accurate and the analysis follows the existing regulations. Different Machine Learning models are evaluated in terms of prediction accuracy, memory requirements and energy efficiency. The applications are implemented in real-world wearable embedded processors using 5G technologies and evaluated using datasets collected from patients in clinical environments.
- *Distributed Algorithms for Large-Scale and Highly-Dynamic Networks*: In this line of research the design of distributed algorithms is presented for two emerging types of networks: large-scale and highly-dynamic networks. Special emphasis is given to Federated Learning methods that enable collaborative training of Machine Learning (ML) models across large number of decentralized clients while preserving data privacy. One of the challenges that FL faces is when the clients' data is not independent and identically distributed (non-IID). It is, therefore, crucial to quantify how non-IID data impacts performance and provide distributed algorithms that contribute to the improvement of the robustness of the resulting system. The protocol design is complemented by network experimentation using experimentation facilities.

My research has been conducted as part of 40 research projects funded from European and National funds following a competitive process or directly awarded from the industry. In all these multi-national projects I was a core member of the research group, deeply involved from the very start of the grant preparation, planning, organizing, and overseeing the technical work of world-class ICT systems with highly acknowledged contribution in the realization of the Internet of Things. In 2 projects I was the coordinator of the consortium, in 1 project I was the scientific responsible for the whole consortium, in 4 projects I was the technical manager of the consortium and in 19 projects I

was the leader of a Work package activity. For the vast majority of the projects that I have been awarded after receiving my PhD, I was the scientific & technical leader of my research group (17). In total the projects secured over 14.2 Mio EURO funding for the research groups I was directly involved, for a total project funding of 90.5 Mio EURO.

In the project XR2Learn that started on 01/01/2023, I am the scientific responsible and coordinator of the joint effort of 10 leading academic and research institutes in Virtual-Augmented-Extended Reality and the Internet of Things in Europe. The project received a total budget of 7.6 Mio EURO. The budget of my organization is 4.5 Mio EURO.

In the project FRONTS, I was the technical manager of a joint effort of 11 leading academic and research institutes in foundations of Algorithmic research in Europe for the realization of the Internet of Things. The project established the theoretical foundations of wireless sensor networks, delivering a complete theory for self-organization and adaptive system reconfiguration. The project received a total budget of 3.0 Mio EURO and the budget of my organization was 335 K EURO. The project concluded with excellent evaluation marks.

In the project WISEBED, I was the technical manager of a joint effort of 9 academic and research institutes in Algorithmic Engineering research for the Internet of Things in Europe. The project delivered the first large-scale testbed for Wireless Sensor Networks including more than 1800 devices. The project received a total budget of 3.6 Mio EURO and the budget of my organization was 377 K EURO. The technical results of the project were celebrated in an article in the Communications of ACM 55(1): 82-90 (2012).

VIIB – Invited talks

- “Computing in the Fog: Recent Technological Advances and Development Techniques”, in Intelligent Environments 2018, Rome, Italy.
- “Counting in Dynamic Networks”, in Computer Science Department, University of Liverpool, UK, February 10th, 2014.
- “Distributed Computation in Possibly Disconnected Dynamic Networks”, in Dipartimento di Ingegneria Civile e Ingegneria Informatica, University of Rome “Tor Vergata”, Rome, Italy, May 15, 2013.
- “Distributed Computation in Anonymous, Unknown and Possibly Disconnected Dynamic Networks”, in Foundations of Network Science, ICALP 2013 workshops, Riga, Latvia, July 7th, 2013.
- “Efficient Development of Distributed Applications spanning the Web and the Internet of Things”, in Computer Science Department, VU University Amsterdam, Netherlands, July 10th, 2013.
- “Distributed Applications spanning the Web and the Internet of Things”, in NEC Labs Europe, Heidelberg, Germany, October 23rd, 2013.
- “Distributed Applications spanning the Web and the Internet of Things”, in AGT Research International, Darmstadt, Germany, November 13th, 2013.
- “Adaptive Networked Societies of Tiny Artifacts”, in tubs.CITY Annual Convention 2012, Braunschweig, Germany, June 7-8, 2012.
- “Population Protocols and Generalizations”, in 3rd International Conference on Algebraic Informatics (CAI 2009), Thessaloniki, Greece, May 19-22, 2009.
- “Distributed Computing in Sensor Networks”, Summer School on Pervasive Adaptation, Rimini, Italy, September 7-12, 2008.

- “Smart Dust Protocols for Local Detection and Propagation”, International Workshop on Tales of Disappearing Computer (TALES), Greece, June 1-4, 2003.

VIIC – Conference organization

- General co-chair of International Federation for Information Processing (IFIP) Networking 2024 Conference (NETWORKING 2024), June 3–6, 2024, Thessaloniki, Greece. [GII-GRIN-SCIE Conference Rating B]
- Technical program co-chair of Workshop on Advanced Tools, Programming Languages, and Platforms for Implementing and Evaluating algorithms for Distributed systems, ApPLIED 2024, Nantes, France, 17 June 2024. ACM 2024.
- General co-chair and Technical program co-chair of 8th International Symposium on Algorithmic Aspects of Cloud Computing (ALGO CLOUD 2023), September 4–8, 2023, Amsterdam, The Netherlands. Lecture Notes in Computer Science, Springer 2023.
- Industrial perspectives co-chair of ACM International Conference on Human-Computer Interaction with Mobile Devices and Services (MOBILEHCI 2023), September 26–29, 2023, Athens, Greece. [GII-GRIN-SCIE Conference Rating B]
- Technical program co-chair of 2021 of 7th International Workshop on Pervasive Smart Sustainable Cities (PerAwareCity & WSCC 2022), in conjunction with the 20th IEEE Conference on Pervasive Computing and Communications (PerCom 2021), Pisa, Italy.
- General co-chair and Technical program co-chair of 2019 European Conference on Ambient Intelligence (AMI 2019), Rome, Italy. [GII-GRIN-SCIE Conference Rating C]
- Technical program co-Chair of Special Sessions “Recent Advances in Technologies for Collective Ambient Intelligence in Smart Cities” and “Tools and methods for supporting design - operation continuum of dependable Cyber-physical Human systems and CPSoSs”, 1st IEEE International Conference on Societal Automation, Technological & Architectural Frameworks (SA 2019), Krakow, Poland.
- Proceeding Chair/Volume Editor of 46th International Colloquium on Automata, Languages, and Programming (ICALP 2019), Patras, Greece. [GII-GRIN-SCIE Conference Rating A]
- Workshops co-chair, 2018 European Conference on Ambient Intelligence (AMI 2018), Larnaca, Cyprus. [GII-GRIN-SCIE Conference Rating C]
- Technical program chair of European Workshop on Behavioral Change and Ambient Intelligence for Sustainability (BRAINS 2018), Larnaca, Cyprus.
- Proceeding Chair/Volume Editor of 45th International Colloquium on Automata, Languages, and Programming (ICALP 2018), Prague, Czech. [GII-GRIN-SCIE Conference Rating A]
- Workshops co-chair, 14th International Conference on Intelligent Environments (IE 2018), Rome, Italy. [GII-GRIN-SCIE Conference Rating C]
- Technical program chair of IEEE Workshop on Pervasive Sensing for Sustainable Smart Cities and Smart Buildings (PERSCB 2018), Athens, Greece.
- Technical program Chair of 1st Workshop on Principles of Fog Computing and Algorithmic Methods (POFOA 2017), Boston University Photonics Center, MA, USA.
- Proceeding Chair/Volume Editor of 44th International Colloquium on Automata, Languages, and Programming (ICALP 2017), Warsaw, Poland. [GII-GRIN-SCIE Conference Rating A]
- Proceeding Chair/Volume Editor of 43rd International Colloquium on Automata, Languages, and Programming (ICALP 2016), Rome, Italy. [GII-GRIN-SCIE Conference Rating A]
- Technical program chair for Track “New & Emerging Topics Track”, 2015 European Conference on Ambient Intelligence (AMI 2015), Athens, Greece. [GII-GRIN-SCIE Conference Rating C]

VIII – Membership in Editorial Boards

- Journal of Wireless Communications and Mobile Computing, Wiley/Hindawi – Impact Factor 2.146, CiteScore 4.3, ranked at Q2 for Electrical and Electronic Engineering
- Journal of Sensor and Actuator Networks, MDPI – Impact Factor 3.5, CiteScore 3.167, ranked at Q1 for Control and Optimization
- Journal of Sensors, MDPI – Impact Factor 3.9, CiteScore 5.8, ranked at Q2 for Electrical and Electronic Engineering
- Journal of Applied Sciences, MDPI Impact Factor 2.7, CiteScore 3.0, ranked at Q2 for Engineering
- Journal of Algorithms, MDPI – Impact Factor 2.3, CiteScore 2.3, ranked at Q3 for Theoretical Computer Science

VIII – Editorial Activities in Conference Proceedings Volumes

- 43rd International Colloquium on Automata, Languages, and Programming, ICALP 2016, (with Michael Mitzenmacher, Yuval Rabani, Davide Sangiorgi), July 11-15, 2016, Rome, Italy. LIPIcs 55, Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik 2016, ISBN 978-3-95977-013-2
- 44th International Colloquium on Automata, Languages, and Programming, ICALP 2017, (with Piotr Indyk, Fabian Kuhn, Anca Muscholl), July 10-14, 2017, Warsaw, Poland. LIPIcs 80, Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik 2017, ISBN 978-3-95977-041-5
- Intelligent Environments 2018 - Workshop Proceedings of the 14th International Conference on Intelligent Environments, (with Yoshito Tobe, Paulo Novais, Oliver Amft) Rome, Italy, 25-28 June 2018.
- Ambient Intelligence and Smart Environments 23, IOS Press 2018, ISBN 978-1-61499-873-0
- 45th International Colloquium on Automata, Languages, and Programming, ICALP 2018, (with Christos Kaklamanis, D´aniel Marx, Donald Sannella), July 9-13, 2018, Prague, Czech Republic. LIPIcs 107, Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik 2018, ISBN 978-3-95977-076-7
- 46th International Colloquium on Automata, Languages, and Programming, ICALP 2019, (with Christel Baier, Paola Flocchini, Stefano Leonardi) July 9-12, 2019, Patras, Greece. LIPIcs 132, Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik 2019, ISBN 978-3-95977-109-2
- 15th European Conference Ambient Intelligence, AmI 2019, (with Boris E. R. de Ruyter, Irene Mavrommati), November 13-15, 2019, Rome, Italy. Lecture Notes in Computer Science 11912, Springer 2019, ISBN 978-3-030-34254-8
- 8th International Symposium Algorithmic Aspects of Cloud Computing, ALGO CLOUD 2023 (with Ioannis Karydis), Amsterdam, The Netherlands, September 5, 2023, Revised Selected Papers. Lecture Notes in Computer Science 14053, Springer 2024, ISBN 978-3-031-49360-7
- Workshop on Advanced Tools, Programming Languages, and Platforms for Implementing and Evaluating algorithms for Distributed systems, ApPLIED 2024 (with Vincent Gramoli), Nantes, France, 17 June 2024. ACM 2024.

VIIF – Editorial Activities in Special Issues of Refereed Journals

- Smart and Circular Cities - Special issue of IEEE Computer, March 2022 · Distributed Signal Processing and Machine Learning for Heterogeneous Edge Computing - Special issue of EURASIP Journal on Wireless Communications and Networking of Springer, February 2020
- Algorithm Engineering for Collective Ambient Intelligence - Special issue of Journal of Algorithms of MDPI, March 2020
- The Application of the Mobile and Pervasive Computing in the Smart City - Special issue of Journal of Future Internet of MDPI, October 2019
- Recent Advances Technologies for Intelligent Sensing in Augmented Reality Environments - Special issue of Journal of Sensors of MDPI, August 2019
- Gamification, Playfulness, and Ludicity in Intelligent Environments - Special issue of Journal of Applied Sciences of MDPI, August 2018
- Advances in Sensors for Sustainable Smart Cities and Smart Buildings - Special issue of Journal of Sensors of MDPI, November 2017
- Techno-Human Collective Systems for Smart Cities Innovation - Special Issue of Journal of Sensor and Actuator Networks of MDPI, December 2015
- Hybrid Environments and the Real World Internet - Special issue of International Journal of Intelligent Engineering Informatics of Interscience, Vol. 3, Nos. 2/3, 2015
- Foundational Research on Networks of Tiny Artefacts - Special issue of Computer Science Review of Elsevier, Volume 5, Issue 1, February 2011

VIIG – Technical Program Committee member

ICC (2018 – 2023), GLOBECOM (2019–2023), AmI (2016–2018), IntEnv (2018), ISAPEP (2018), PE-WASUN (2007–2017), PODC (2015), IPDPS (2015), SIROCCO (2015), WCNC (2013, 2014), WINSYS (2009 – 2014), ALGOSENSORS (2006, 2008, 2013), CIAC (2013), CPScom (2012), SSS (2011), DISC (2011), GSN (2009, 2011), MOBISENSOR (2010), SENSORCOMM (2007 – 2010), MobiWac (2004 – 2009), MobiWorld (2008), SENSORCOMM (2007), MSWiM (2004, 2005), WMuNeP (2007), WEA (2007), DCOSS (2005).

VIIH – Reviewer for Journals:

Journal of Ambient Intelligence and Humanized Computing (AIHC), Theoretical Computer Science (TCS), Parallel and Distributed Computing (JPDC), Journal of Mobile and Ad-hoc Networks (MONET), Journal of Wireless Networks (WINE), IEEE Transactions on Mobile Computing (TMC), IEEE Transactions on Parallel and Distributed Systems, Transactions of The Society for Modelling and Simulation, Journal on Performance Evaluation, Journal of Distributed Sensor Networks, IEEE Network Magazine.

VIII – Scientific reference point in Bilateral agreements of Sapienza University of Rome with International Universities:

- University Teknologi Mara, Malaysia, since 2023
- Universiti Malaya, Malaysia, since 2024
- Universitas Sumatera Utara, Indonesia, since 2023

- Binus University, Indonesia, since 2024
- National University of Battambang, Cambodia, since 2023

Part VIII – Summary of Scientific Achievements

Product type	Number	Data Base	Start	End
Papers [journals]	48	DBLP	2002	2024
Papers [journals]	50	Scopus	2003	2024
Papers [conferences]	144	DBLP	2000	2024
Papers [conferences]	142	Scopus	2001	2024
Books [scientific]	1	DBLP	2011	2011
Chapters [scientific]	1	DBLP	2021	2021
Chapters [scientific]	3	Scopus	2016	2020
Editor of Conference Proceedings	10	DBLP	2016	2024
Editor of Conference Proceedings	11	Scopus	2016	2024

Total Impact factor (2024) JCR	182
Total Impact factor (year of publication) JCR	117
Total Citations Scopus	3175
Total Citations Google Scholar	5695
Average Citations per Product Scopus	15.33
Average Citations per Product Google Scholar	20.48
Hirsch (H) index – Scopus	31
Hirsch (H) index – Google Scholar	43
Normalized H index* Scopus	1.29
Normalized H index* Google Scholar	1.79

*H index divided by the academic seniority. From 2000 to 2024 = 24 years.

Part IX– Selected Publications

List of the 16 publications selected for the evaluation.

#	Publication	Citations		Impact Factor ⁶
		Scopus	G. Scholar	JCR / GGS
1	CHATZIGIANNAKIS, IOANNIS, Vitaletti, Andrea, Pyrgelis, Apostolos (2016). A privacy-preserving smart parking system using an IoT elliptic curve based security platform. <i>COMPUTER COMMUNICATIONS</i> , vol. 89-90, p. 165-177, ISSN: 0140-3664, doi: 10.1016/j.comcom.2016.03.014 - Articolo in rivista	108	156	2023: 4.5 2016: 3.338
2	Bourg L., Chatzidimitris T., CHATZIGIANNAKIS I., Gavalas D., Giannakopoulou K., Kasapakis V., Konstantopoulos C., Kypriadis D., Pantziou G., Zaroliagis C. (2021). Enhancing shopping experiences in smart retailing. <i>JOURNAL OF AMBIENT INTELLIGENCE AND HUMANIZED COMPUTING</i> , p. 1-19, ISSN: 1868-5137, doi: 10.1007/s12652-020-02774-6 - Articolo in rivista	8	25	2023: 3.662 2021: 7.104
3	Othon Michail, CHATZIGIANNAKIS, IOANNIS, Paul G. Spirakis (2014). Causality, influence, and computation in possibly disconnected synchronous dynamic networks. <i>JOURNAL OF PARALLEL AND DISTRIBUTED COMPUTING</i> , vol. 74, p. 2016-2026, ISSN: 0743-7315, doi: 10.1016/j.jpdc.2013.07.007 - Articolo in rivista	20	34	2023: 3.4 2014: 1.179
4	Mylonas G., Amaxilatis D., CHATZIGIANNAKIS I., Anagnostopoulos A., Paganelli F. (2018). Enabling Sustainability and Energy Awareness in Schools Based on IoT and Real-World Data. <i>IEEE PERVASIVE COMPUTING</i> , vol. 17, p. 53-63, ISSN: 1536-1268, doi: 10.1109/MPRV.2018.2873855 - Articolo in rivista	37	50	2023: 1.6 2018: 3.813
5	Amaxilatis Dimitrios, Akrivopoulos Orestis, Mylonas Georgios, CHATZIGIANNAKIS IOANNIS (2017). An IoT-based solution for monitoring a fleet of educational buildings focusing on energy efficiency. <i>SENSORS</i> , vol. 17, ISSN: 1424-8220, doi: 10.3390/s17102296 - Articolo in rivista	64	88	2023: 3.4 2017: 2.475
6	Di Luna Giuseppe Antonio, Baldoni Roberto, Bonomi Silvia, CHATZIGIANNAKIS IOANNIS (2014). Counting in anonymous dynamic networks under worst-case adversary. In: <i>Proceedings - International Conference on Distributed Computing Systems</i> . p. 338-347, Institute of Electrical and Electronics Engineers Inc., ISBN: 9781479951680, Universidad Politecnica de Madrid, esp, 2014, doi: 10.1109/ICDCS.2014.42 - Contributo in Atti di convegno	25	39	A
7	Milani Stefano, CHATZIGIANNAKIS IOANNIS (2021). Design, analysis, and experimental evaluation of a new secure rejoin mechanism for lorawan using elliptic-curve cryptography. <i>JOURNAL OF SENSOR AND ACTUATOR NETWORKS</i> , vol. 10, p. 1-19, ISSN: 2224-2708, doi: 10.3390/JSAN10020036 - Articolo in rivista	11	16	2023: 3.3 2021: 3.5
8	Akrivopoulos O., Amaxilatis D., Mavrommati I., CHATZIGIANNAKIS I. (2019). Utilising fog computing for	12	27	2023: 1.8 2019: 1.595

⁶ The Impact Factor for journal publications is indicated for the year of publication and for 2023 using JCR while for conference publication it is based on GII-GRIN-SCIE Conference Rating (CORE 2023).

	developing a person-centric heart monitoring system. JOURNAL OF AMBIENT INTELLIGENCE AND SMART ENVIRONMENTS, vol. 11, p. 237-259, ISSN: 1876-1364, doi: 10.3233/AIS-190523 - Articolo in rivista			
9	Rodriguez-Rodriguez I., CHATZIGIANNAKIS I., Rodriguez J. -V., Maranghi M., Gentili M., Zamora-Izquierdo M. -A. (2019). Utility of big data in predicting short-term blood glucose levels in type 1 diabetes mellitus through machine learning techniques. SENSORS, vol. 19, ISSN: 1424-8220, doi: 10.3390/s19204482 - Articolo in rivista	50	74	2023: 3.4 2019: 3.275
10	Angeletti Fabio, CHATZIGIANNAKIS Ioannis, Vitaletti Andrea (2018). Towards an architecture to guarantee both data privacy and utility in the first phases of digital clinical trials. SENSORS, vol. 18, ISSN: 1424-8220, doi: 10.3390/s18124175 - Articolo in rivista	20	25	2023: 3.4 2018: 3.031
11	Massri Khalil, Vitaletti Andrea, Vernata Alessandro, CHATZIGIANNAKIS IOANNIS (2016). Routing Protocols for Delay Tolerant Networks: A Reference Architecture and a Thorough Quantitative Evaluation. JOURNAL OF SENSOR AND ACTUATOR NETWORKS, vol. 5, ISSN: 2224-2708, doi: 10.3390/jsan5020006 - Articolo in rivista	16	26	2023: 3.3 2016: 3.5
12	Konstantinos Chantzis, CHATZIGIANNAKIS, IOANNIS, José D. P. Rolim (2014). Design and evaluation of a real-time locating system for wireless sensor networks. JOURNAL OF LOCATION BASED SERVICES, vol. 8, p. 97-122, ISSN: 1748-9725, doi: 10.1080/17489725.2014.922224 - Articolo in rivista	5	4	2023: 1.2 2014: 0.36
13	Scirè Alessandro, Tropeano Fabrizio, Anagnostopoulos Aris, CHATZIGIANNAKIS IOANNIS (2019). Fog-computing-based heartbeat detection and arrhythmia classification using machine learning. ALGORITHMS, vol. 12, ISSN: 1999-4893, doi: 10.3390/a12020032 - Articolo in rivista	36	43	2023: 1.8 2019: 2.2
14	Amaxilatis Dimitrios, CHATZIGIANNAKIS IOANNIS (2018). Design and analysis of adaptive hierarchical low-power long-range networks. JOURNAL OF SENSOR AND ACTUATOR NETWORKS, vol. 7, ISSN: 2224-2708, doi: 10.3390/jsan7040051 - Articolo in rivista	7	8	2023: 3.3 2018: 3.5
15	Mauro Papa, IOANNIS CHATZIGIANNAKIS, Aris Anagnostopoulos (2024). Automated Natural Language Processing-Based Supplier Discovery for Financial Services. BIG DATA, vol. 12, p. 30-48, ISSN: 2167-6461, doi: 10.1089/big.2022.0215 - Articolo in rivista	0	0	2023: 2.6 2024: 2.6
16	Jimenez Daniel, Anagnostopoulos Aris, CHATZIGIANNAKIS IOANNIS, Vitaletti Andrea (2024). FedArtML: A Tool to Facilitate the Generation of Non-IID Datasets in a Controlled Way to Support Federated Learning Research. IEEE ACCESS, ISSN: 2169-3536, doi: 10.1109/access.2024.3410026 - Articolo in rivista	0	0	2023: 3.4 2024: 3.4

Part X – Contribution to Industry

XA – Participation in the scientific board of the Sapienza Design Research (SDR)

Since 2018 I am a member of the board of the Sapienza Design Research (SDR) interdisciplinary centre working on the transformation of Italian manufacturing industry towards the realization of Industry 4.0 according to novel Design Thinking approaches. In this capacity I have collaborated with SMEs in the Lazio region and managed to establish direct contracts to further fund my research. I am also collaborating with public entities on the application of Internet of Things to ensure the sustainability of cultural heritage sites.

XB – Participation in the Creation of Technology start-ups

- Spark Works Ltd (IE), VP Engineering and co-founder. I led the research & development efforts for the award-winning diagnosis-grade heart-monitoring wearable device. I was involved from the initial user-centric design, to prototype development and finally to market. The product of Spark Works has received the Gold and Silver awards for IoT, was one of the finalists in the EIT Digital IoT Idea Challenge, Stockholm Innovation Days 2015 and was featured as a FIWARE Success Story in 2015. Spark Works has secured a total of 2,1 Mio EURO funding.
- Sensorflare PC (Greece), CEO and co-founder. I was involved in bootstrapping the company from the initial idea to the released product. I managed the daily activities of the team, lead the business development and innovation of a Smart Home cloud-based that was awarded Best Connected Home Category and Best Technical Enabler: Platform and Tools by Postscrapes Annual Internet of Things Awards 2014/2015. Sensorflare PC received the 1st SpeakToIt Prize during the Dataweek+API 2014 conference. Sensorflare PC received startup funding by Odyssey VC.
- Oplon Games PC (Greece), CTO and co-founder. I was involved in the development of a web-based high-quality gaming platform. Oplon Games received startup funding by TANEOS VC after winning the Best Business Proposal Award in the 1st Panhellenic E-Business Competition - AEGEAN Startups, November 2011, Samos Island, Greece.

XC – Participation in Expert Panels

I served as an Expert/Evaluator for the evaluation of research proposals in European and National funding instruments:

- Netherlands (NW) call 2024.
- Belgian “Strategic basic research” (SBO) Calls 2018, 2020, 2021, 2022 and 2023 that support high-quality strategic basic research.
- Paris Region “Research Fellowship Programme” Calls 2020--2024 that support high-quality postdoctoral research grants.
- EU H2020 EUROSTARS call 2024, 2023, 2020, 2017 and 2022 that Funds excellence in innovation across Europe.
- Kuwait Foundation for the Advancement of Sciences –Research Directorate for the call 2017, 2023.
- Polish National Science Center (NCN panel ST6) for the call 2017.
- EU H2020 call on Research & Innovation on Internet of Things integration and platforms (IoT-03-2017).
- EU FP7 call on Future and Emerging Technologies (FET-PROACT-2011).
- Enterprise Estonia, call 2011.

- Swiss National Science Foundation, call 2010.
- Italian Research Foundation, call 2010.

I served as an Expert/Reviewer from Feb/2016 to Jan/2018 for the H2020 research project ARMOUR “Large-Scale Experiments of IoT Security Trust”, funded under the call H2020-EU.2.1.1. - Industrial Leadership - Leadership in enabling and industrial technologies (ICT), under contract number 688237.

XD – Participation in Technology Transfer Exhibitions

- Organization and coordination of the exhibit: “Foundational Aspects of Global Computing (FLAGS)”, at 2nd Communicating European Research International Conference (CER), stand number 1.200, Brussels Exhibition Center (Heysel), Belgium, November, 2005.
- Organization and coordination of the exhibit: “Smart building monitoring through a globally-available, internet-connected WSN application (AEOLUS)”, at the ICT 2008: Europe's biggest research event for information and communication technologies, stand number J.1, Lyon, France, November, 2008.
- Organization and coordination of the exhibit: “Globally-Available Internet-Connected Ambient Spaces (CTI)”, at the FET 2009: Science beyond Fiction, The European Future Technologies Conference, stand number G-04, Prague, Czech Republic, April, 2009.
- Organization and coordination of the exhibit: Research Academic Computer Technology Institute (CTI), at the ESME 2009: Euroscience Mediterranean Event 2009, stand number A5, Athens, Greece, October, 2009.
- Organization and coordination of the exhibit: FinN: Fun In Numbers, at the ICT 2010: Europe's biggest research event for information and communication technologies, stand number R6-17, Brussels, Belgium, September, 2010.
- Organization and coordination of the exhibit: SPITFIRE: Provisioning Semantic IoT Services, at the FIA 2012 Aalborg: Future Internet Week, Hands on FIRE (Future Internet Research & Experimentation), Aalborg, Denmark, May, 2012.
- Participation in the exhibit: XR2LEARN: Extended Reality for Learning in New Dimensions, at the Immersive Tech Week 2023 in Rotterdam, the Netherlands, November 2023.

XE – Contributions to Open-Source projects

I strongly believe that technology transfer is directly supported via open-source communities. In the past years I have been involved at multiple levels with open-source projects.

- I have actively participated in the design & development of algorithmic libraries and tools such as the LEP-DAP platform (based on LEDA)
- I was one of the main contributors of the WiseLib library (C++ library for wireless sensor networks). And one of the organization admins and a mentor for the Google Summer of Code programme for multiple years.
- I am a member of the Greek open-source community. While I was at the University of Patras, I was part of the organizing team of the 1st Greek conference on free and open-source software.

XF – Patents

- SISTEMA INDOSSABILE ATTO ALLA SEGNALAZIONE VISIVA E Uditiva DEL CAMBIO DELLA DIREZIONE DI MARCIA DI VEICOLI DI PICCOLA TAGLIA / Orsini, Matteo; Paoletti, Alessio; Chatzigiannakis, Ioannis; Malakuczi, Viktor. - (2022). 202021000001991
- Sistema di sicurezza per incidenti in bicicletta / Arias, Carolina Avila; Paoletti, Alessio; Chatzigiannakis, Ioannis; Giambattista, Angela. - (2022). 202021000002840

Part XI – Full List of Publications

XIA – Monographs

[M1] O.Michail, I.Chatziannakis and P.Spirakis: “New Models for Population Protocols”. Synthesis Lectures on Distributed Computing Theory, edited by N.Lynch, Morgan & Claypool Publishers, 2011.

XIB – Books

[B1] I.Chatziannakis and P.Spirakis: “Distributed Self-organized Societies of Tiny Artefacts: Design & Implementation”. Printed by PerAda, the Future and Emerging Technologies coordination action funded by the European Commission under FP7. Lulu Publishers, Raleigh, N.C., May 2011 (ISBN 5800059245538).

XIC – Chapters in books of international circulation

[CB1] I.Chatziannakis, S.Nikolteas and P.Spirakis: “Distributed Communication Algorithms for Ad-hoc Mobile Networks”. Chapter in the Book “Current Trends in Theoretical Computer Science: The Challenge of the New Century, Vol 1: Algorithms and Complexity”, edited by G.Paun, G.Rozenberg and A.Salomaa, World Scientific Pub Co., ISBN 981-238-783-8, June 2004.

[CB2] I.Chatziannakis and S.Nikolteas: “Algorithms and Protocols for Wireless Ad hoc and Sensor networks”. Chapter in the Book “Algorithms and Protocols for Wireless Ad hoc and Sensor networks”, edited by A.Boukerche, Wiley and Sons, to appear.

[CB3] I.Chatziannakis: “Communication Algorithms for Ad Hoc Mobile Networks Using Random Walks”. Chapter in the Book “Encyclopedia of Algorithms”, edited by MingYang Kao, Springer Verlag, ISBN 978-0-387-30770-1, August 2008.

[CB4] I.Chatziannakis and E.Konstantinou: “Key Establishment Protocols for Wireless Sensor Networks”. Chapter in the Book “Security in RFID and Sensor Networks”, edited by Y.Zhang and P.Kitsos, Auerbach Publications, CRC Press, Taylor & Francis Group, ISBN 978-142006840-5, 978-1-420-06839-9, March 2009.

[CB5] P.Spirakis, O.Michail and I.Chatziannakis: “Population Protocols and Related Models”. Chapter in the Book “Theoretical Aspects of Distributed Computing in Sensor Networks”, edited by S.Nikolteas and J.Rolim, Springer-Verlag, Monographs in Theoretical Computer Science, EATCS Series, 2011 (ISBN 978-3-642-14848-4).

[CB6] A.Antoniou, E.Theodoridis, I.Chatziannakis and G.Mylonas: “Using Future Internet Infrastructure and Smartphones for Mobility Trace Acquisition and Social Interactions Monitoring”. Chapter in the Book “Future Internet Assembly”, Lecture Notes in Computer Science, Springer, Volume 7281, pp. 117-129, 2012 (ISBN 978-3-642-30240- 4).

[CB7] G.Mylonas, I.Chatziannakis, I.Mavrommati, O.Akribopoulos, M.Logaras and P.Kokkinos: “Large-scale multiplayer pervasive games: the case of the Fun in Numbers platform”. Chapter in the Book “Hyperconnectivity and the Future of Internet Communication”, IGI Global.

[CB8] I.Chatziannakis: “Apps for smart buildings: A case study on building security”. Chapter in Book “Start-Up Creation: The Smart Eco-Efficient Built Environment”. p. 465-479, Elsevier Inc., ISBN: 9780081005491, doi: 10.1016/B978-0-08-100546-0.00019- 4

[CB9] I.Chatziannakis and C.Tselios. “Internet of Everything”. Intelligent Computing for Interactive System Design: Statistics, Digital Signal Processing, and Machine Learning in Practice (1st ed.). Association for Computing Machinery, New York, NY, USA, 21- 56. DOI:<https://doi.org/10.1145/3447404.3447408>

XID – Journals

[J1] I.Chatziannakis, S.Nikolseas and P.Spirakis: “Distributed Communication Algorithms for Ad-hoc Mobile Networks”. In the Parallel and Distributed Computing Journal (JPDC), Special Issue on Mobile Ad-hoc Networking and Computing, Elsevier, 63 (1), pp. 58-74, 2003.

[J2] I.Chatziannakis, T.Dimitriou, M.Mavronicolas, S.Nikolseas and P.Spirakis: “A Comparative Study of Protocols for Efficient Data Propagation in Smart Dust Networks”. In the Parallel Processing Letters (PPL), World Scientific, 13 (4), pp. 615-627, 2003.

[J3] I.Chatziannakis and S.Nikolseas: “Design and Analysis of an Efficient Communication Strategy for Hierarchical and Highly Changing Ad-hoc Mobile Networks”. In the ACM/Baltzer Mobile Networks and Applications Journal (MONET), Special Issue on Parallel and Distributed Computing Issues in Wireless Networks and Mobile Computing, 9 (4), pp. 319-332, 2004.

[J4] I.Chatziannakis, E.Kaltsa and S.Nikolseas: “On the Effect of User Mobility and Density on the Performance of Routing Protocols for Ad-hoc Mobile Networks”. In the Journal of Wireless Communications & Mobile Computing (WMC), Wiley Interscience, 4 (6), pp. 609-621, 2004.

[J5] I.Chatziannakis, S.Nikolseas and P.Spirakis: “Smart Dust Protocols for Local Detection and Propagation”. In the ACM/Baltzer Mobile Networks and Applications Journal (MONET), Special Issue on Wireless and Networks and Mobile Computing, 10 (1), pp. 133-149, 2005.

[J6] A.Boukerche, I.Chatziannakis and S.Nikolseas: “Power-Efficient Data Propagation Protocols for Wireless Sensor Networks”. In the SCS Journal of Simulation: Transactions of the Society for Modeling and Simulation International (SIMULATION), Special Issue “On Modeling and Simulation of Emerging Wireless and Sensor Network Technologies and Applications”, 81 (6): pp. 399-411, 2005.

[J7] A.Boukerche, I.Chatziannakis and S.Nikolseas: “A New Energy Efficient and Fault tolerant Protocol for Data Propagation in Smart Dust Networks using Varying Transmission Range”. In the Journal of Computer Communications (COMCOM), Elsevier, 29 (4): pp. 477-489, 2006.

[J8] I.Chatziannakis, T.Dimitriou, S.Nikolseas and P.Spirakis: “A Probabilistic Algorithm for Efficient and Robust Data Propagation in Wireless Sensor Networks”. In the Journal of Ad hoc Networks (JADHOC), Elsevier, 4 (5): pp. 621-635, 2006.

[J9] I.Chatziannakis, A.Kinalis and S.Nikolseas: “Adaptive Techniques for Proactive Collision Avoidance for Multi-path Data Propagation in Wireless Sensor Networks”. In the Journal of Performance Evaluation: An International Journal (JPE), Special Issue on Performance Evaluation of Wireless Ad Hoc, Sensor, and Ubiquitous Networks, Elsevier, 63 (11): pp. 1074-1093, 2006.

- [J10] I.Chatziagiannakis, A.Kinalis and S.Nikolelseas: "Fault-tolerant and Efficient Data Propagation in Wireless Sensor Networks using Local, Additional Network Information". In the Parallel and Distributed Computing Journal (JPDC), Elsevier, 67: pp. 456-473, 2007.
- [J11] I.Chatziagiannakis, G.Mylonas and S.Nikolelseas: "A Model for Obstacles to be used in Simulations of Wireless Sensor Networks and its Application in studying Routing Protocol Performance". In the Simulation: Transactions of the Society for Modeling and Simulation International, 83 (8): pp. 587-608, 2007.
- [J12] I.Chatziagiannakis, A.Kinalis and S.Nikolelseas: "Adaptive Energy Management for Incremental Deployment of Heterogeneous Wireless Sensors". In the Journal of Theory of Computing Systems (TCS), Special Issue on 17th ACM Symposium on Parallelism in Algorithms and Architectures, Springer-Verlag, 42 (1): pp. 42-72, 2008.
- [J13] A.Bamis, A.Boukerche, I.Chatziagiannakis and S.Nikolelseas: "A Mobility Aware Protocol Synthesis for Efficient Routing in Ad-Hoc Mobile Networks". In the Journal of Computer Networks (COMNET), Elsevier, 52 (1): pp. 130-154, 2008.
- [J14] I.Chatziagiannakis, A.Kinalis and S.Nikolelseas: "Efficient Data Propagation Strategies in Wireless Sensor Networks Using a Single Mobile Sink". In the Journal of Computer Communications (COMCOM), Elsevier, 31 (5): pp. 896-914, 2008.
- [J15] I.Chatziagiannakis, G.Mylonas and S.Nikolelseas: "The Design of an Environment for Monitoring and Controlling Remote Sensor Networks". In the International Journal of Distributed Sensor Networks (IJDSN), Taylor & Francis, 5(3): pp. 262-282, 2009.
- [J16] C.Alvarez, I.Chatziagiannakis, A.Duch, J.Gabarro, O.Michail, M.Serna and P.Spirakis: "Computational models for networks of tiny artifacts: A survey". In the Computer Science Review (COSREV), Elsevier, 5(1): pp. 7-25, 2011.
- [J17] L.Becchetti, I.Chatziagiannakis and Y.Giannakopoulos: "Streaming techniques and data aggregation in networks of tiny artefacts". In the Computer Science Review (COSREV), Elsevier, 5(1): pp. 27-46, 2011.
- [J18] T.Baumgartner, I.Chatziagiannakis, S.Fekete, S.Fischer, C.Koninis, A.Kröller, D.Kruger, G.Mylonas and D.Pfisterer: "Distributed algorithm engineering for networks of tiny artifacts". In the Computer Science Review (COSREV), Elsevier, 5(1): pp. 85-102, 2011.
- [J19] I.Chatziagiannakis, G.Mylonas and A.Vitaletti: "Urban pervasive applications: Challenges, scenarios and case studies". In the Computer Science Review (COSREV), Elsevier, 5(1): pp. 103-118, 2011.
- [J20] O.Michail, I.Chatziagiannakis and P.Spirakis: "Mediated Population Protocols". In the Journal of Theoretical Computer Science (TCS), Elsevier, 412(22): pp. 2434-2450, 2011.
- [J21] G.Coulson, B.Porter, I.Chatziagiannakis, C.Koninis, S.Fischer, D.Pfisterer, D.Bimschas, T.Braun, P.Hurni, M.Anwander, G.Wagenknecht, S.P.Fekete, A.Kröller and T.Baumgartner: "Flexible experimentation in wireless sensor networks". In the Magazine Communications of the ACM (CACM), ACM, Volume 55(1): pp. 82-90, January 2012.

- [J22] I.Chatziagiannakis, O.Michail, S.Nikolaou, A.Pavlogiannis and P.Spirakis: “Passively Mobile Communicating Machines that Use Restricted Space”. In the Journal of Theoretical Computer Science (TCS), Elsevier, Volume 412(46): pp. 6469-6483, October 2011.
- [J23] I.Chatziagiannakis, G.Mylonas, P.Kokkinos, O.Akribopoulos, M.Logaras and I.Mavrommati: “Implementing Multiplayer Pervasive Installations based on Mobile Sensing Devices: Field Experience and User Evaluation from a Public Showcase”. In the Journal of Systems and Software (JSS), Elsevier, Volume 84(11): pp. 1989-2004, November 2011.
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