

Curriculum Vitae

PERSONAL INFORMATION

Full Name: Panagiotis Papadimitriou
Birth Date: May 31, 1977
Place of Birth: Kavala, Greece
Nationality: Greek
Languages: Greek, English, German

CONTACT INFORMATION

Prof. Panagiotis Papadimitriou
Associate Professor of Internet Technologies

University of Macedonia
Department of Applied Informatics
Egnatia 156, Thessaloniki, Greece

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WWW: <http://sites.google.com/site/panagpapadimitriou>

EDUCATION

2003–2008
Ph.D. in Electrical and Computer Engineering, Democritus University of Thrace, Xanthi, Greece

- Thesis Title: Transport Protocol Design and Performance Evaluation for Multimedia Applications in Heterogeneous Networks
- Advisor: Vassilis Tsaoussidis

2000–2001
M.Sc. in Information Technology, Department of Computer Science and Information Technology, Nottingham University, Nottingham, UK

1995–2000
B.Sc. in Computer Science, Department of Computer Science, University of Crete, Heraklio, Greece

RESEARCH INTERESTS

- Network Function Virtualization
- Software-Defined Networks
- Edge Computing
- In-Band Network Telemetry (INT)
- Datacenter Networking

RESEARCH PROJECTS

2022–2025
NEPHELE: A Lightweight Software Stack and Synergetic Meta-Orchestration Framework for the Next Generation Compute Continuum
EU Horizon Europe
Principal Investigator

2022
Optimized Virtual Network Function Placement on Computing Infrastructures
Ministry of Education, Greece
Principal Investigator

2018–2021
MESON: Optimized Edge Slice Orchestration
RESEARCH-CREATE-INNOVATE, MIA-RTDI, Greece

Project Coordinator, Principal Investigator

2019

COSMOS: Computation Offloading for Smart Touristic Sites
EU Horizon 2020 (H2020)

Project Co-Leader

2017–2019

NECOS: Novel Enablers for Cloud Slicing
EU-BRA Horizon 2020 (H2020)

Co-Principal Investigator

2014–2016

T-NOVA: Network Functions as-a-Service over Virtualised Infrastructures
EU Framework Programme 7 (FP7)

Principal Investigator

2014–2015

CONFINE: Community Networks Testbed for the Future Internet
EU Framework Programme 7 (FP7)

Principal Investigator

2013

ProCloud: Resource Procurement for Network Slicing in Multi-Provider Clouds
L3S / Ministry of Science and Culture, Lower Saxony, Germany

Principal Investigator

2011–2013

LAVINET: Enabling Large-Scale Network Virtualization
L3S / Ministry of Science and Culture, Lower Saxony, Germany

Principal Investigator

2011

G-Lab VirtuRAMA: Virtual Routers: Architecture, Management and Applications
Federal Ministry of Education and Research, Germany

Co-Principal Investigator

2010

SAIL: Scalable and Adaptive Internet Solutions
EU Framework Programme 7 (FP7)

2008–2010

4WARD: Addressing Architecture and Design for the Future Internet
EU Framework Programme 7 (FP7)

2008–2009

Virtual Routers: A Technology for Enabling Internet Innovation
Engineering and Physical Sciences Research Council (EPSRC), UK

2007 to 2008

COST290: Traffic and QoS Management in Wireless Multimedia Networks
European Coordination in the field of Scientific and Technical Research (COST)

2006–2008

Virtual Guide: Intelligent Multimedia Museum Navigation with Wireless Technology
General Secretariat for Research and Technology (GSRT), Greece

GRANTS

Title	Funding	Duration	Budget
NEPHELE	EU Horizon Europe	36 months	370.000 euros
Optimized Virtual Network Function Placement on Computing Infrastructures	Ministry of Education (Greece)	6 months	5.000 euros
MESON	RESEARCH-CREATE-INNOVATE (Greece)	36 months	202.000 euros
COSMOS	EU H2020	6 months	37.000 euros
CONFINE	EU FP7	12 months	41.000 euros
T-NOVA	EU FP7	36 months	380.000 euros
Professorial Exchange Program	DAAD (Germany)	1 month	900 euros
ProCloud	L3S/MWK (Germany)	6 months	25.000 euros

PROFESSIONAL /
RESEARCH
EXPERIENCE

University of Macedonia, Department of Applied Informatics, Greece

Associate Professor

May 2022 to present

- Head of NetCloud Research Group
- Principal Investigator of Horizon Europe NEPHELE project
- Supervision of doctoral students:
 - ◊ *Georgios Papathanail*: Doctoral student since 12/2018
 - ◊ *Kostas Papadopoulos*: Doctoral student since 6/2019
 - ◊ *Angelos Pentelas*: Doctoral student since 1/2020
 - ◊ *Ioakim Fotoglou*: Doctoral student since 1/2020
 - ◊ *Panteleimon Rodis*: Doctoral student since 1/2021
- Supervision of Master and Bachelor theses

University of Macedonia, Department of Applied Informatics, Greece

Assistant Professor

September 2018 to May 2022

- Head of NetCloud Research Group
- Scientific Coordinator of MESON project (RESEARCH-CREATE-INNOVATE)
- Co-Principal Investigator of EU-BRA H2020 NECOS project
- Co-Lead of EU H2020 COSMOS project
- Supervision of doctoral students, research assistants, and visiting researchers:
 - ◊ *Georgios Papathanail*: Doctoral student since 12/2018, funded by COSMOS/MESON projects
 - ◊ *Kostas Papadopoulos*: Doctoral student since 6/2019
 - ◊ *Angelos Pentelas*: Doctoral student since 1/2020, funded by MESON project
 - ◊ *Ioakim Fotoglou*: Doctoral student since 1/2020, funded by COSMOS/MESON projects
 - ◊ *Panteleimon Rodis*: Doctoral student since 1/2021
 - ◊ *Christos Demertzis*: Research assistant, funded by COSMOS project (6/2019 - 9/2019)
 - ◊ *Kyriakos Sgouromitis*: Research assistant, funded by COSMOS project (6/2019 - 9/2019)
 - ◊ *Lucian Beraldo*: Visiting researcher from Federal University of Sao Carlos, Brazil (9/2019 - 12/2019)
- Supervision of Master and Bachelor theses

University of Macedonia, Department of Applied Informatics, Greece

Lecturer

June 2016 to August 2018

- Co-Principal Investigator of EU-BRA H2020 NECOS project
- Supervision of Master and Bachelor theses

Leibniz Universität Hannover, Institute of Communications Technology, Germany

Assistant Professor (W1 Professor)

January 2011 to May 2016

- Head of Future Internet Group
- Supervision of doctoral students and postdocs:
 - ◊ *Zdravko Bozakov*: Doctoral student, graduated in August 2015 and employed by Dell EMC in Ireland
 - ◊ *Ahmed Abujoda*: Doctoral student, graduated in February 2016 and employed by Juniper in Germany
 - ◊ *David Dietrich*: Doctoral student, graduated in March 2016 and employed by Beuth Hochschule für Technik Berlin
 - ◊ *Zhen Cao*: Post-doctoral researcher, employed by Huawei in China
- Leader of ProCloud and LAVINET projects
- Principal Investigator of EU FP7 T-NOVA and EU FP7 CONFINE projects
- Supervision of Master and Bachelor theses

L3S Research Center, Hannover, Germany

Member

February 2012 to May 2016

- Member in the area of Next-Generation Internet (NGI)
- Engagement in interdisciplinary research with L3S members and other collaborators

University of Cambridge, Computer Laboratory, Cambridge, UK

Visiting Researcher (Host: Arjuna Sathiseelan)

October 2013

- Architecture design for software-defined crowd-shared networks

Institut Telecom, Telecom SudParis, RS2M Department, Evry, France

Research Engineer

July 2010 to December 2010

- Architecture design and prototype implementation of cloud networking across multiple network providers in EU FP7 SAIL project

Lancaster University, Computing Department, Lancaster, UK

Post-doctoral Research Associate

July 2008 to June 2010

- Design and implementation of a platform for high performance virtual routers on commodity servers
- Design, prototype implementation, and feasibility study of architecture for wide-area virtual network provisioning and management
- Delegated Task Leader in the EU FP7 4WARD project

Athena Research Center, Cultural and Educational Technology Institute, Xanthi, Greece

Research Associate

October 2006 to May 2008

- Performance analysis and experimental evaluation of transport protocols for media streaming in wired/wireless networks
- Co-supervision of a Master Thesis

Florida International University, Computing Department, Miami, FL, USA

Visiting Researcher (Host: Chi Zhang)

July 2006 to August 2006

- Dynamic adaptation of AIMD-oriented congestion control for media delivery over the Internet

Democritus University of Thrace, Electrical and Computer Engineering Department, Xanthi, Greece

Research Associate

October 2003 to June 2008

- Congestion control for media-streaming applications in the Internet
- Study of interactions between layered video adaptation and congestion control
- Co-supervision of Master and Bachelor Theses

Foundation of Research & Technology (F.O.R.T.H.), Heraklio, Greece

Software Engineer

January 2000 to June 2000

- Development of a medical application in the Machine Vision and Robotics Group

TEACHING
EXPERIENCE

University of Macedonia, Department of Applied Informatics, Greece

Assistant Professor

Winter Term, 2019–2022

- *Computer Systems*

Winter Term, 2018–2022

- *Cloud Computing Technologies and Web Analytics (MSc Applied Informatics)*

Winter Term, 2018–2020

- *Computer Networks and Communications (MSc Applied Informatics)*

Spring Term, 2018–2022

- *Cloud Computing*

- *Information and Communication Technologies in (MSc Law and Informatics)*

Spring Term, 2019–2022

- *Computer Networks for Big Data (MSc AI and Data Analytics)*

Winter Term, 2018–2019

- *Introduction to Computer Science*

Lecturer

Winter Term, 2017–2018

- *Computer Systems and Networks (MSc Applied Informatics)*

- *Cloud Computing Technologies and Web Analytics (MSc Applied Informatics)*

Winter Term, 2016–2018

- *Introduction to Computer Science*

Spring Term, 2016–2018

- *Cloud Computing*

- *Information and Communication Technologies (MSc Law and Informatics)*

Hellenic Open University, School of Science and Technology, Greece

Adjunct Professor

2017–2018

- *Software and Networking Technologies (MSc Mobile and Pervasive Computing Systems)*

Democritus University of Thrace, Departments of Civil and Electrical Engineering, Greece

Lecturer

Spring Term, 2017

- *Computer and Communication Networks*

Leibniz Universität Hannover, Institute of Communications Technology, Germany

Assistant Professor **Summer Term, 2011–2014, 2016**

- *Future Internet Communication Technologies*

Winter Term, 2011–2015

- *Network Management*

Summer Term, 2015

- *Computer Networks (Rechnernetze)*

Lancaster University, Faculty of Science and Technology, Lancaster, UK

Adjunct Lecturer **Spring/Summer Term, 2009–2010**

- *C++ Programming*
- *Advanced C++ Programming*

Lancaster University, Computing Department, Lancaster, UK

Tutor **Spring Term, 2009–2010**

- *Machine and Assembly Language Programming*

Future Internet Summer School (FISS 2009), University of Bremen, Bremen, Germany

Invited Lecturer **July 2009**

- *Router Virtualization*

Technological and Educational Institute of Kavala, Information Management Department, Kavala, Greece

Adjunct Lecturer **2004–2008**

- *Operating Systems*

Adjunct Lecturer **2003–2004**

- *Data Structures*

THESIS
EXAMINATION
COMMITTEES

Ph.D. Theses

- Spyridon Nikolaidis, “Decentralized Deep Neural Network Training via Distributed Ledger Technology”, University of Macedonia, March 2022
- Marios Avgeris, “Dynamic Resource Allocation and Computational Offloading at the Network Edge for Internet of Things Applications”, National Technical University of Athens, Greece, September 2021
- Mircea Mihai Lordache-Mica, “Towards Network Infrastructure Resilience Through Dynamic Orchestration of Lightweight Security Services”, University of Glasgow, UK, June 2021
- Sotiris Skaperas, “Real-time Detection and Optimization Algorithms for Flexible Resource Allocation in 5G Networks and Beyond”, University of Macedonia, October 2020
- Kouchaksaraei Razzaghi Hadi, “Orchestrating Network Services Using Multi-domain, Heterogeneous Resources”, University of Paderborn, Germany, September 2020
- Panagiotis Melidis, “Operation Algorithms for Energy-Efficient Backbone Networks”, Aristotle University of Thessaloniki, May 2020

- David Dietrich, “Multi-Provider Network Service Embedding”, Leibniz University Hannover, Germany, March 2016
- Ahmed Abujoda, “Software-Defined Middlebox Networking”, Leibniz University Hannover, Germany, February 2016
- Zdravko Bozakov, “Architectures for Virtualization and Performance Evaluation in Software Defined Networks”, Leibniz University Hannover, Germany, August 2015
- Emil Dimitrov, “System Design and Validation of Multi-Band OFDM Wireless Communications with Multiple Antennas”, Leibniz University Hannover, Germany, March 2013

Master Theses

- Basileios Tsogkas, “Parallelizing Entity Resolution Methods For Big Data”, University of Macedonia, February 2022
- Eleni Kelaiditi, “Network Slicing Cost Model Study and Formulation”, University of Macedonia, November 2021
- Aliko Christou, “Epistemic Network Analysis: Literature Review and Case Study”, University of Macedonia, September 2021
- Sofia Tsani, “Study and Analysis of Privacy Violations in Smart Home and Smart City Environments”, University of Macedonia, June 2021
- Maria Zygoura, “Economic Implications of Cloud Computing”, University of Macedonia, February 2021
- Anatoli Stampolou, “Experimental Study of Object Recognition on Mobile Devices using Cloud Computing”, University of Macedonia, November 2020
- Anastasios Milios, “Study of Privacy Aspects in Cloud Computing”, University of Macedonia, November 2020
- Anastasios Lamprianidis, “Study of Technologies for Transactions with Digital Currencies”, University of Macedonia, November 2020
- Konstantinos Kiriazopoulos, “5G Network Analysis and Simulation”, University of Macedonia, November 2020
- Dimitrios Psarras, “Evaluation of Light Virtualization Technologies”, University of Macedonia, September 2020
- Panteleimon Rodis, “Intelligent Virtual Network Embedding using Genetic Algorithms”, Hellenic Open University, July 2020
- Filippas Serepas, “Implementation of Internet Content Caching System at the Network Edge”, Hellenic Open University, June 2020
- Kalliopi Ioannidou, “Privacy Aspects for Internet of Things”, University of Macedonia, July 2020
- Christos Demertzis, “Implementation of Network Telemetry System with P4 Programming Language”, University of Macedonia, June 2020
- Alexandra Koulakidou, “Modern Trends and Challenges in Web Data Analysis for Social Networks”, University of Macedonia, February 2020
- Sarantis Kalafatidis, “Internet Service Load Balancing in Intelligently Programmable Networks”, University of Macedonia, February 2019

- Filippos Vambakas, “Technologies and Architectures for Wi-Fi Access Sharing”, University of Macedonia, February 2019
- Georgios Vlachavas, “Test Case Prioritization in Software Systems”, University of Macedonia, February 2019
- Efrosini Garofalaki, “Development of Serious Game with Cards”, University of Macedonia, February 2019
- Virginia Kokka, “Cloud Computing Services and Personal Data Processing, with Emphasis on Privacy Impact”, University of Macedonia, October 2018
- Paris Stamatakis, “The Internet of Things in the Commerce Sector: Smart Shopping Trolley using RFID”, University of Macedonia, June 2018
- Athanasios Giatsos, “Load Balancing in Smart Programmable Networks”, University of Macedonia, February 2018
- Gkioulan Ametoglou, “Qualitative Comparison of Alternative Internet Access Technologies”, Democritus University of Thrace, October 2017
- Christian Kehe, “Entwurf und Implementierung eines Analysesystems für digitale Radiosysteme”, Leibniz University Hannover, Germany, February 2016
- Jue Zhang, “SDN Based QoS Management for Wi-Fi Networks”, Leibniz University Hannover, Germany, December 2015
- Hossein Tavakkoli, “Efficient Resource Allocation for Flow Processing on Commodity Servers”, Leibniz University Hannover, Germany, September 2013
- Viet Tiep Bui, “Zuordnung Virtueller Netze mit Verkehrsmatrizen”, Leibniz University Hannover, Germany, January 2013

Bachelor/Diploma Theses

- Menelaos Konstantinidis, “Experimental Study of Load Balancing Mechanisms in Datacenters”, University of Macedonia, July 2021
- Apostolos Kirkimtzis, “Experimental Study of Edge Computing using Kubernetes”, University of Macedonia, February 2021
- Charalampos Dimaridis, “Study of Protocols RPL and RPL-Lite for the Internet of Things”, University of Macedonia, September 2020
- Georgios Zouros, “Design and Implementation of Reservation System Using Cloud Computing”, University of Macedonia, September 2020
- Georgios Simoglou, “Security Aspects in the Routing Protocol RPL”, University of Macedonia, February 2020
- Nikolaos Stefanidis, “Penetration Testing: Tools and Emulated Network Attacks”, University of Macedonia, January 2020
- Georgios Iakovakis, “Implementation and Performance Evaluation of Cryptographic Algorithms”, Hellenic Open University, September 2018
- Eleni Mountzia, “Elliptic Curve Cryptography and Wireless Sensor Networks”, University of Macedonia, June 2018
- Anastasios Leibadiths, “Application of Internet of Things in Smart Agricultural Environments”, University of Macedonia, February 2018
- Sophia Ninou, “Creation of Risk Indicators”, University of Macedonia, September 2016

- Frederik Schubert, “Evaluation of the Statistical Characteristics of a Data Channel in Different Mobile networks”, Leibniz University Hannover, Germany, November 2015
- Quoc Binh Trinh, “Identification and Monitoring of Elephant flows using OpenFlow”, Leibniz University Hannover, Germany, September 2014
- Philipp Sommerfeld, “Schätzung von Verkehrseigenschaften im Internet durch externe Messungen”, Leibniz University Hannover, Germany, October 2013
- Gerrit Winter, “Performance Evaluation eines Geo-Routing-Protokolls für die Fahrzeug-Fahrzeug-Kommunikation”, Leibniz University Hannover, Germany, January 2013
- Richard Neumann, “Transparent Control Message Translation for Virtual Software-Defined Networks”, Leibniz University Hannover, Germany, November 2012
- Quoc Binh Trinh, “Evaluation of Packet Generators and Link Emulators in 10G Ethernet”, Leibniz University Hannover, Germany, November 2012
- Thorsten Laude, “Koexistenzuntersuchung von WLAN-basierten Sekundärnutzersystemen mit Primärnutzersystemen im UHF-Band”, Leibniz University Hannover, Germany, October 2011

AWARDS

Best Teaching Award

MSc AIDA

Computer Networks for Big Data, MSc AI and Data Analytics, Spring Term, 2020–2021

Runner-up Best Paper Award

IFIP WWIC 2016

A. Abujoda, H. R. Kouchaksaraei, and **P. Papadimitriou**, “SDN-Based Source Routing for Scalable Service Chaining in Datacenters”, May 2016

Senior Member, December 2015

IEEE

Best Paper Award

IFIP WWIC 2012

P. Papadimitriou, I. Houidi, W. Louati, D. Zeghlache, C. Werle, R. Bless, and L. Mathy, “Towards Large-Scale Network Virtualization”, June 2012

Runner-up Poster Award

ACM SIGCOMM 2009

N. Egi, A. Greenhalgh, M. Hoerdt, F. Huici, **P. Papadimitriou**, M. Handley, and L. Mathy, “A Platform for High Performance and Flexible Virtual Routers on Commodity Hardware”, August 2009

CONFERENCE/
WORKSHOP
ORGANIZATION

18th IEEE/IFIP International Conference on Network and Service Management (CNSM 2022), Thessaloniki, November 2022

URL: <https://www.cnsm-conf.org/2022>

General Co-Chair

10th IEEE International Conference on Cloud Computing (CloudNet 2021), Virtual Conference, October 2021

URL: <https://cloudnet2021.ieee-cloudnet.org>

Organizer, Publicity Co-Chair

Technology Forum 2021, Thessaloniki, October 2021

URL: <https://technology-forum.eu>

Organizer

4th IEEE NetSoft Workshop on Advances in Slicing for Softwarized Infrastructures (S4SI 2021), Virtual Conference, June 2021

URL: <http://intrig.dca.fee.unicamp.br/s4si2021>

Organizer

2nd IFIP/IEEE Networking Workshop on Time-Sensitive and Deterministic Networking (TENSOR 2021), Virtual Conference, June 2021

URL: <https://networking.ifip.org/2021/workshops/international-workshop-on-time-sensitive-and-deterministic-networking-tensor>

Organizer, TPC Co-Chair

3rd IEEE NetSoft Workshop on Advances in Slicing for Softwarized Infrastructures (S4SI 2020), Virtual Conference, June 2020

URL: <http://intrig.dca.fee.unicamp.br/s4si2020>

Organizer, TPC Co-Chair

IFIP/IEEE Networking Workshop on Time-Sensitive and Deterministic Networking (TENSOR 2020), Virtual Conference, June 2020

URL: <http://networking.ifip.org/2020/workshops/tensor-2020.html>

Organizer, TPC Co-Chair

IEEE CNSM Workshop on Segment Routing and Service Function Chaining (SR+SFC 2019), Halifax, Canada, November 2019

URL: <http://cnsm-conf.org/2019/srsfc2019.html>

Organizer, TPC Co-Chair

IEEE CNSM Workshop on Segment Routing and Service Function Chaining (SR+SFC 2018), Rome, Italy, November 2018

URL: <http://cnsm-conf.org/2018/srsfc2018.html>

TPC Co-Chair

15th Int/nal Conference on Wired/Wireless Internet Communications (WWIC 2017), St. Petersburg, Russia, June 2017

URL: <http://wwic.ifip.org>

General Co-Chair

2nd IEEE INFOCOM Workshop on Software-Driven Flexible and Agile Networking (SWFAN 2017), Atlanta, USA, May 2017

URL: <http://www.swfan.org>

Organizer

9th IEEE Int/nal Conference on Communication Systems and Networks (COMSNETS 2017), Bangalore, India, January 2017

URL: <http://www.comsnets.org/archive/2017/>

Publicity Co-Chair

14th Int/nal Conference on Wired/Wireless Internet Communications (WWIC 2016), Thessaloniki, Greece, May 2016

URL: <http://wwic.info>

TPC Co-Chair

IEEE INFOCOM Workshop on Software-Driven Flexible and Agile Networking (SWFAN 2016), San Francisco, USA, April 2016

URL: <http://www.swfan.org/2016>

Organizer, TPC Co-Chair

NFV Workshop, Hannover, Germany, October 2015

URL: <http://nfvworkshop.wordpress.com>

Organizer

10th IFIP Int/nal Conference on Wired/Wireless Internet Communications (WWIC 2012), Santorini, Greece, June 2012

Publicity Chair

SERVICE

Technical Program Committees

- IEEE/IFIP Network Operations and Management Symposium (NOMS) 2020, 2022
- IEEE Int/nal Conference on Communications (ICC) 2011–2013, 2015–2022
- IEEE Global Telecommunications Conference (GLOBECOM) 2009–2014, 2016–2022
- IEEE Int/nal Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC) 2008, 2013–2019, 2021–2022
- IEEE Future Networks World Forum (FNWF) 2022
- IEEE International Conference on Computer, Information, and Telecommunication Systems (CITS) 2020–2022
- IEEE International Mediterranean Conference on Communications and Networking (MeditCom) 2021–2022
- Workshop on StateLess as a Service for Smart Computing (SMARTSTATE) 2022
- European Conference on Networks and Communications (EUCNC) 2015–2019, 2022
- IEEE 5G World Forum 2018–2021
- IEEE CNSM Workshop on Network Programmability (NetP 2021)
- ACM SIGCOMM Workshop on Networking for Emerging Applications and Technologies (NEAT) 2019–2020
- IEEE NETSOFT Workshop on Advances in Slicing for Softwarized Infrastructures (S4SI) 2019–2020
- IFIP Int/nal Conference on Wired/Wireless Internet Communications (WWIC) 2012–2019
- IEEE INFOCOM Workshop on Integrating Edge Computing, Caching, and Offloading in Next Generation Networks (IECCO) 2017–2019
- IEEE INFOCOM Workshop on Network Science for Communication Network (NetSciCom) 2017
- IEEE Asia Pacific Conference on Wireless and Mobile (APWiMob) 2014–2016
- Int/nal Conference on Telecommunications and Multimedia (TEMU) 2012, 2014, 2016
- IEEE Consumer Communications & Networking Conference (CCNC) 2010–2015

- IEEE Int/nal Workshop on Data Center Performance (DCPerf) 2012–2015
- IEEE Int/nal Workshop on Computer-Aided Modeling Analysis and Design of Communication Links and Networks (CAMAD) 2012, 2015
- IEEE Global Conference on Signal and Information Processing (GlobalSIP) 2015
- IEEE Int/nal Conference on Computing and Network Communications (CoCo-Net 15)
- ACM Int/nal Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services (MobiQuitous) 2014
- IEEE Int/nal Conference on Computing, Networking and Communications (I-CNC) 2012–2013
- ACM/IEEE Int/nal Conference on Connected Vehicles & Expo (ICCVE) 2012
- IEEE Int/nal Congress on Ultra Modern Telecommunications and Control Systems (ICUMT) 2010–2012
- IEEE Int/nal Conference on Cloud and Service Computing (CSC) 2011, 2012
- IEEE Int/nal Conference on Computer Communications and Networks (ICCCN) 2010
- IEEE Workshop on the Emergence of Delay-/Disruption-Tolerant Networks (E-DTN) 2009

Journal Editorial Boards

- IEEE Transactions on Network and Service Management (Associate Editor, 2021–2022)
- Journal of Sensor and Actuator Networks (MDPI), Special Issue on Network Slicing for 5G and Beyond (Guest Editor, 2020)
- Journal of Internet Engineering, (Associate Editor, 2008–2016)

REFEREE

- IEEE/ACM Transactions on Networking
- IEEE Transactions on Parallel and Distributed Systems
- IEEE Transactions on Mobile Computing
- IEEE Transactions on Multimedia
- IEEE Transactions on Vehicular Technology
- IEEE Journal on Selected Areas in Communications
- IEEE Communications Magazine
- Computer Networks (Elsevier)
- Computer Communications (Elsevier)

PROJECT PROPOSAL REVIEWER

- General Secretariat for Research and Technology (GSRT), Greece, 2020
- German Research Foundation (Deutsche Forschungsgemeinschaft – DFG), Germany, 2016
- National Science Centre (Narodowe Centrum Nauki – NCN), Poland, 2014, 2017

PROJECT
REVIEWER

- RESEARCH-CREATE-INNOVATE, MIA-RTDI, Greece, 2020

MEMBERSHIPS

- IEEE Senior Member
- ACM Member
- IEEE Communications Society
- IEEE Technical Committee on Network Operation and Management (CNOM)
- IEEE Flexible Addressing, Routing and Management across Limited Domains (ARMS)
- IRTF Global Access to the Internet for All (GAIA)

PUBLICATIONS

Conference/Workshop Papers (Peer-reviewed)

- [A1] G. Papathanail, I. Dimolitsas, I. Fotoglou, D. Dechouniotis, S. Papavassiliou, and **P. Papadimitriou**, “Towards Secure and Optimized Cross-Slice Communication Establishment”, **IEEE NetSoft International Workshop on Edge Network Softwarization (ENS 2022)**, Milan, Italy, June 2022.
- [A2] G. Papathanail, A. Pentelas and **P. Papadimitriou**, “Towards Fine-Grained Resource Allocation in NFV Infrastructures”, **40th IEEE Global Communications Conference (GLOBECOM 2021)**, Madrid, Spain, December 2021, pp. 1–6.
- [A3] K. Papadopoulos, **P. Papadimitriou**, and C. Papagianni, “PFA-INT: Lightweight In-Band Network Telemetry with Per-Flow Aggregation”, **IEEE NFV-SDN 2021**, Heraklion, Greece, November 2021, pp. 60–66.
- [A4] P. Rodis and **P. Papadimitriou**, “Intelligent Network Service Embedding Using Genetic Algorithms”, **26th IEEE Symposium on Computers and Communications (ISCC 2021)**, Athens, Greece, September 2021, pp. 1–7.
- [A5] G. N. Kumar, K. Katsalis, **P. Papadimitriou**, P. Pop, and G. Carle, “Failure Handling for Time-Sensitive Networks using SDN and Source Routing”, **IEEE Conference on Network Softwarization (NetSoft 2021)**, Virtual Conference, June-July 2021, pp. 226–234 (Acceptance rate: $18/89=20.2\%$).
- [A6] L. Beraldo, A. Pentelas, F. Verdi, **P. Papadimitriou**, and C. Marcones, “Tenant-Oriented Resource Optimization for Cloud Network Slicing with Performance Guarantees”, **4th IEEE NetSoft Workshop on Advances in Slicing for Softwarized Infrastructures (S4SI 2021)**, Virtual Conference, June 2021, pp. 38–44.
- [A7] A. Pentelas and **P. Papadimitriou**, “Service Function Chain Graph Transformation for Enhanced Resource Efficiency in NFV”, **20th IFIP/IEEE Networking Conference**, Virtual Conference, June 2021, pp. 1–9 (Acceptance rate $41/158=25.9\%$).

- [A8] A. Pentelas and **P. Papadimitriou**, “Network Service Embedding for Cross-Service Communication”, **IFIP/IEEE International Symposium on Integrated Network Management (IM 2021)**, Virtual Conference, May 2021, pp. 424–430 (Acceptance rate: **46/191=24.1%**).
- [A9] G. N. Kumar, K. Katsalis, and **P. Papadimitriou**, “Coupling Source Routing with Time-Sensitive Networking”, **IFIP/IEEE Networking Workshop on Time-Sensitive and Deterministic Networking (TENSOR 2020)**, Virtual Conference, June 2020, pp. 797–802.
- [A10] I. Fotoglou, G. Papathanail, A. Pentelas, **P. Papadimitriou**, V. Theodorou, D. Dechouniotis, and S. Papavassiliou, “Towards Cross-Slice Communication for Enhanced Service Delivery at the Network Edge”, **IEEE NetSoft Workshop on Advances in Slicing for Softwarized Infrastructures (S4SI 2020)**, Virtual Conference, June 2020, pp. 22–28.
- [A11] I. Dimolitsas, D. Dechouniotis, V. Theodorou, **P. Papadimitriou**, and S. Papavassiliou, “A Multi-Criteria Decision Making Method for Network Slice Edge Infrastructure Selection”, **IEEE NetSoft Workshop on Advances in Slicing for Softwarized Infrastructures (S4SI 2020)**, Virtual Conference, June 2020, pp. 1–7.
- [A12] G. Papathanail, I. Fotoglou, C. Demertzis, A. Pentelas, K. Sgouromitis, **P. Papadimitriou**, D. Spatharakis, I. Dimolitsas, D. Dechouniotis, and S. Papavassiliou, “COSMOS: An Orchestration Framework for Smart Computation Offloading in Edge Clouds”, **IEEE/IFIP NOMS Workshop on Orchestration for Software Defined Infrastructures (O4SDI 2020)**, Virtual Conference, April 2020, pp. 1–6.
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- Network Virtualization and Beyond, Invited Talk, **Space Internetworking Center (SPICE)**, Xanthi, Greece, June 2013.
- Multi-Domain Virtual Network Embedding with Limited Information Disclosure, **IFIP Networking 2013**, New York, USA, May 2013.
- Towards Virtual Networks with Advanced Programmability and Control, **Bell**

Labs, Murray Hill, New Jersey, USA, May 2013.

- Towards Wide-Area Network Virtualization, **Dagstuhl Seminar on Future Internet**, Schloss Dagstuhl, Germany, March 2013.
- Towards Large-Scale Network Virtualization, **10th IFIP Int/nal Conference on Wired/Wireless Internet Communications (WWIC 2012)**, Santorini, Greece, June 2012.
- Network Virtualization for Internet Innovation, **Workshop Web Science - Interdisziplinarität und Synergien**, L3S Research Center, Hannover, Germany, March 2012.
- Modern Research Topics in Operating Systems, **Electrical and Computer Engineering Department, Democritus University of Thrace**, Xanthi, Greece, March 2011.
- Views and Perspectives on Future Internet, **Workshop Web Science - Interdisziplinarität und Synergien**, L3S Research Center, Hannover, Germany, March 2011.
- High Performance and Flexible Software Virtual Routers on Commodity Hardware, **Institute for Communication Technology, Leibniz Universität Hannover**, Hannover, Germany, March 2011.
- High Performance and Flexible Software Virtual Routers on Multi-core PCs, **CNRS SAMOVAR, Telecom SudParis**, Evry, France, December 2010.
- Virtual Network Provisioning and Fault-Management across Multiple Domains, **Distinguished Speaker Series, Electrical and Computer Engineering Department, Democritus University of Thrace**, Xanthi, Greece, November 2010.
- Adaptive Virtual Network Provisioning, **ACM SIGCOMM Workshop on Virtualized Infrastructure Systems and Architectures (VISA 2010)**, New Delhi, India, September 2010.
- Leveraging Network and Router Virtualization for a Future Internet, **Institute for Communication Technology, Leibniz Universität Hannover**, Hannover, Germany, June 2010.
- Architecture and Protocol Design Perspectives for a Future Internet, **Athens Information Technology**, Athens, Greece, April 2010.
- High Performance and Flexible Software Virtual Routers on Multi-core PCs, **Colloquium Series, Electrical and Computer Engineering Department, Democritus University of Thrace**, Xanthi, Greece, April 2010.
- High Performance Software Virtual Routers on Commodity Hardware, **Future Internet Summer School (FISS 2009)**, Bremen, Germany, July 2009.
- A Network Virtualization Architecture for a Future Internet, **CAKES Research Group, Computing Department, Lancaster University**, Lancaster, UK, June 2009.
- Implementing Network Virtualization for a Future Internet, **20th ITC Specialist Seminar on Network Virtualization**, Hoi An, Vietnam, May 2009.

- Network and Router Virtualization Towards a Future Internet, **COMNET Research Group, Electrical and Computer Engineering Department, Democritus University of Thrace**, Xanthi, Greece, January 2009.
- Transport Protocol Design and Performance Evaluation for Multimedia Applications in Heterogeneous Internetworks, **Electrical and Computer Engineering Department, Democritus University of Thrace**, Xanthi, Greece, October 2008.
- An Integrated Smooth Transmission Control and Temporal Scaling Scheme for MPEG-4 Streaming Video, **IEEE Int/nal Conference on Multimedia & Expo (ICME 2008)**, Hannover, Germany, June 2008.
- A Rate Control Scheme for Adaptive Video Streaming over the Internet, **42nd IEEE Int/nal Conference on Communications (ICC 2007)**, Glasgow, Scotland, June 2007.
- A Quality Adaptation Scheme for Internet Video Streams, **5th Int/nal Conference on Wired/Wireless Internet Communications (WWIC 2007)**, Coimbra, Portugal, May 2007.
- Enhancing Video Streaming Delivery over Wired/Wireless Networks, **13th European Wirelss Conference (EW 2007)**, Paris, France, April 2007.
- Transport-layer Perspectives for the Interplanetary Internet, **COMNET Research Group, Electrical and Computer Engineering Department, Democritus University of Thrace**, Xanthi, Greece, December 2006.
- Evaluation of Transport Services for VoIP, **41st IEEE Int/nal Conference on Communications (ICC 2006)**, Istanbul, Turkey, June 2006.
- Evaluating TCP Mechanisms for Real-Time Streaming over Satellite Links, **4th IEEE Int/nal Conference on Wired/Wireless Internet Communications (WWIC 2006)**, Bern, Switzerland, May 2006.
- The Impact of End-to-end vs. Link-layer Mechanisms on Real-Time Performance over Wireless Links, **20th IEEE Int/nal Conference on Advanced Information Networking and Applications (AINA 2006)**, Vienna, Austria, April 2006.
- On Transport-layer Mechanisms for Real-Time Application QoS, **COMNET Research Group, Electrical and Computer Engineering Department, Democritus University of Thrace**, Xanthi, Greece, December 2005.
- The Impact of Network and Protocol Heterogeneity on Real-Time Application QoS, **10th Int/nal Symposium on Computers and Communications (ISCC 2006)**, Cartagena, Spain, June 2005.

PANELS

- Student Mentoring Panel, **10th IEEE International Conference on Cloud Computing (CloudNet 2021)**, November 2021
- Distinguished Expert Panel on “Softwarization and Slicing in 6G Networks and Network 2030”, **4th IEEE NetSoft Workshop on Advances in Slicing for Softwarized Infrastructures**, June 2021

- Expert Panel on “Experimental Facilities and Network Virtualization”, **20th**
ITC Specialist Seminar on Network Virtualization, May 2009