

Georgios Z. Papadopoulos

Associate Professor

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Greek, Born September 9, 1988



At a glance

My research interests span primarily in the area of Industrial Internet of Things (IIoT), 6TiSCH, Low-Power Wide-Area Network (LPWAN), Deterministic Networks and Smart Grid. I am especially interested in highly reliable wireless communication, in ultra-low jitter performance (deterministic communication) and in energy efficient algorithms.

Professional experience

- 06/16 - present **Associate Professor**, IMT Atlantique, Rennes, France,
Subject: "Internet of Things".
- 01/16 - 05/16 **Postdoctoral Research Associate**, Faculty of Engineering, University of Bristol, UK,
Subject: "Security and Networking in Internet of Things".
- 10/15 - 12/15 **Postdoctoral Research Engineer**, ICube Laboratory, University of Strasbourg, France,
Subject: "Characterization of an IoT / WSN testbed (*i.e.*, link quality, stability, symmetry)".
- 09/12 - 09/15 **Ph.D. Candidate**, ICube Laboratory, University of Strasbourg, France,
Subject: "Improving the medium access in WSNs under dynamic traffic and mobile assumptions".
- 09/13 - 09/15 **Teaching Assistant**, Faculty of Mathematics & Computer Science, University of Strasbourg, France,
Subject: "Computer Networks, Advanced Networks, Internet of Things".
- 10/12 - 07/13 **Research Intern**, Department of Telematics Engineering, University Carlos III of Madrid, Spain,
Subject: "Evaluation of network Traffic Generators (e.g., Iperf, Mgen) for WLAN & LAN environments".
- 10/11 - 05/12 **Research Intern**, Mobile & Wireless Network R&D, NEC Laboratories Europe, Heidelberg, Germany,
Subject: "Innovative approaches in Overlapping BSS for contention based systems in IEEE 802.11".

Education

- 2015 (3 years) **Ph.D. in Computer Science**, ICube Laboratory, University of Strasbourg, France,
Thesis title: "Improving Medium Access for Dynamic Wireless Sensor Networks.",
Best Ph.D. Thesis Award for 2015 granted by the **University of Strasbourg**, France.
Thesis supervisor: Prof. Thomas Noël & Dr. Antoine Gallais
- 2012 (1 year) **M.Sc. in Telematics Engineering**, Department of Telematics, University Carlos III of Madrid, Spain,
Thesis title: "Experimental Assessment of Traffic Generators."
Thesis supervisor: Dr. Pablo Serrano Yáñez-Mingot
- 2011 (4 years) **B.Sc. in Computer Science**, Department of Informatics, Alexander T.E.I. of Thessaloniki, Greece,
Thesis title: "On the Enhancement of IEEE 802.11 Overlapping APs Capacity Sharing."
Thesis supervisor: Dr. Xavier Costa-Pérez & Dr. Periklis Chatzimisios
- 2010 (1 semester) **Erasmus (exchange student)**, Department of Informatics & Applied Business, University College Gent, Belgium.

Highlights

Awards, Grands & Scholarships

- Mar 2018 **Recipient of the AIS**, Allocation d'Installation Scientifique (Équipement Jeune Chercheur), granted by the **Rennes Métropole, France**.
- July 2017 **Recipient of the ANR JCJC**, National Grant for Young Researchers, granted by the **French National Research Agency**.
- Dec. 2016 **Recipient of the Stratégie D'attractivité Durable (SAD)**, Regional Grant for Young Researchers, granted by the **Brittany Region, France**.
- June 2016 **Best Ph.D. Thesis Award** for 2015, granted by the **University of Strasbourg, France**.
- Nov 2014 **Best Student Paper Award** @ Sensor Networks Track, IEEE **SENSORS'14** - Valencia, Spain.
- Jun 2014 **Best Paper Award**, IEEE IFIP **Med-Hoc-Net'14** - Piran, Slovenia.
- Sept 2012 **Scholarship**: French State under the Excellence Initiative (**Initiatives d'excellence, IdEx**) program.
- Oct 2011 **Scholarship**: Greek State Scholarship Foundation (**I.K.Y.**) for the performance of the academic year 2009-2010 during the B.Sc. studies at Alexander T.E.I. of Thessaloniki, Greece.

Scientific visits

- Mar 2018 **Visiting scholar**, *1 week* - *Erasmus+*, University of Buenos Aires, Buenos Aires, Argentina.
- Nov 2013 **Visiting scholar**, *3 weeks*, Computer Network Lab, Inje University, Busan, Korea.
- Mar 2013 **Visiting scholar**, *1 week*, University College of Ghent, Ghent, Belgium.

Panelist

- May 2017 **Panel**, "*Exploring Excited Career Paths for Young Engineers & Scientists*", IEEE ICC 2017, Paris, France.

Invited Talks

- Jan 2018 Enabling Determinism in 6TiSCH Industrial Networks @ Inria Lille-Nord Europe, France
- Jul 2017 Industrial IoT: From best-effort to strict guarantees @ Summer School on Emerging Technologies for 5G and Internet of Things, organized by Hellenic Open University, Thessaloniki, Greece
- Dec 2016 Toward Quality of Service in IoT @ NIST Laboratories, Gaithersburg, Maryland, U.S.A.
- Oct 2015 Can experiments lead to scientific results? @ FIT IoT-LAB Workshop, Inria Lille-Nord Europe, France.
- May 2015 On Enhancement of MAC for Bursty Traffic in Mobile WSNs @ Inria Lille-Nord Europe, France.
- May 2014 WSNs for Wildlife Monitoring @ Department of Informatics, A.T.E.I. of Thessaloniki, Greece.
- Nov 2013 WSNs & IoTs @ Reunion of IdEx Ph.D. candidates at European Doctoral College, Strasbourg, France.
- Sep 2013 Runtime Traffic Auto-adaptations for MAC protocols @ SenZations 2013, Palić, Serbia.
- Mar 2013 Social Media @ International week, University College of Ghent - Ghent, Belgium.

Teaching

Responsibilities

2017 - 2018 **Coordinator ELU 608 module: Internet of Things**, *IMT Atlantique*, (1st & 2nd year), 42 h.
Coordinator: Final Projects (S5), *IMT Atlantique*, (3rd year).

2016 - 2017 **Coordinator F2R 421 module: Mobile Networks**, *IMT Atlantique*, (3rd year), 15 h.
Coordinator: Inter-semester, *IMT Atlantique*, (1st & 2nd year), 22 h.
Coordinator: Final Projects (S5), *IMT Atlantique*, (3rd year).

Courses - Lectures

2017 - 2018 **Spring: Internet of Things (Lectures & Lab Sessions)**, *IMT Atlantique*, (1st & 2nd year), 18 h.
Fall: Internet of Things (Lectures & Lab Sessions), *IMT Atlantique*, (1st & 2nd year), 15 h.
Spring: Networking Project (Lab Sessions), *IMT Atlantique*, (1st year), 24 h.
Fall: Networking Project (Lab Sessions), *IMT Atlantique*, (1st year), 21 h.
Fall: Ad Hoc Networks (Lectures), *IMT Atlantique*, (3rd year), 9 h.
Fall: Performance Evaluation (Lectures), *IMT Atlantique*, (1st year), 6 h.
Fall: Computer Networks (Lectures), *IMT Atlantique*, (1st year), 6 h.

2016 - 2017 **Spring: Local Networks (Lectures)**, *IMT Atlantique*, (1st & 2nd year), 21 h.
Fall: Mobile Networks (Lectures & Lab Sessions), *IMT Atlantique*, (3rd year), 15 h.
Fall: Ad Hoc Networks (Lectures), *IMT Atlantique*, (3rd year), 4.5 h.
Fall: Performance Evaluation (Lectures), *IMT Atlantique*, (1st year), 6 h.

2014 - 2015 **Computer Networks (Lab session)**, *University of Strasbourg*, M.Sc. (1st year), 12 h.
Advanced networks (Lab session), *Télécom Physique Strasbourg*, (3rd year), 8 h.
TCP/IP (Lab session), *Télécom Physique Strasbourg*, (2nd year), 4 h.
English for Computer Science (Lectures), *University of Strasbourg*, B.Sc. (3rd year), 5 h.
Internet of Things (Lectures & Lab session), *University of Strasbourg*, M.Sc. (2nd year), 18 h.
Networks and systems security (Lab session), *University of Strasbourg*, M.Sc. (1st year), 17 h.

2013 - 2014 **Computer Networks (Lab session)**, *University of Strasbourg*, M.Sc. (1st year), 24 h.
TCP/IP (Lab session), *Télécom Physique Strasbourg*, (2nd year), 16 h.
Networks and systems security (Lab session), *University of Strasbourg*, M.Sc. (1st year), 18 h.
English for Computer Science (Lectures), *University of Strasbourg*, B.Sc. (3rd year), 10 h.

2012 - 2013 **Social Media (Lectures)**, *University College of Ghent*, B.Sc. (3rd year), 6 h.

Students

I have been privileged to serve as advisor for (and to collaborate with) the following great people (listed in chronological order):

Visiting Scholars

March 2018 **Diego Dujovne**, *Visiting Professor*, Universidad Diego Portales, Santiago, Chile,
Subject: "IoT Convergence and Divergence".

Postdoctoral Fellows

06/17 - **Remous-Aris Koutsiamanis**,
present **Subject:** "Toward Realization of Industry 4.0: Deterministic Wireless Networks".
Co-advisor: Prof. Nicolas Montavont (IMT Atlantique).

Ph.D. Candidates

12/17 - **Guillaume Le Gall**,
present **Subject:** "Toward Wireless Battery Management System in Electrical Vehicles".
Co-advisors: Nicolas Montavont (IMT Atlantique) & Dominique Poissonnier (Texas Instrument).

12/17 - **Renzo Efraín Navas**,
present **Subject:** "Improving Resilience of the Industrial Internet of Things".
Co-advisors: Frédéric Cuppens (IMT Atlantique), Nora Cuppens (IMT Atlantique), Laurent Toutain (IMT Atlantique), Georg Sigl (TUM).

10/17 - **Tomas Lagos Jenschke**,
present **Subject:** "Toward Deterministic and Predictable Industrial 4.0".
Co-advisor: Nicolas Montavont (IMT Atlantique).

02/16 - **Vasileios Kotsiou**,
present **Subject:** "Deterministic Performance for LPLN with 6TiSCH: Characterization and Prediction".
Co-advisors: Fabrice Theoleyre (University of Strasbourg) & Periklis Chatzimisios (ATEI of Thessaloniki).

Bachelor (B.Sc.) and Master (M.Sc.) Students

04/18 - **Eduardo Ingles Sanchez (Research Intern)**, *M.Sc.*,
present **Subject:** "RPL Bootstrapping phase: DODAG Network Selection".
Co-advisor: Nicolas Montavont, IMT Atlantique.

02/18 - **Agustin Picard (Research Intern)**, *M.Sc.*,
present **Subject:** "High Precession Localization in Wireless Networks".
Co-advisor: Nicolas Montavont, IMT Atlantique.

02/18 - **Cristian Alderete (Research Intern)**, *M.Sc.*,
present **Subject:** "Toward Wireless Battery Management System in Electrical Vehicles".
Co-advisor: Nicolas Montavont, IMT Atlantique.

10/17 - 03/18 **Chenyang Ji (Research Intern)**, *B.Sc.*,
(6 months) **Subject:** "Load Balancing in RPL-based Networks: Traffic-aware Objective Function".
Co-advisor: Nicolas Montavont, IMT Atlantique.

02/17 - 07/17 **Julian Martin Del Fiore (Research Intern)**, *M.Sc.*,
(6 months) **Subject:** "Toward Reliable and Deterministic Networks in Industrial-IoT applications".
Co-advisor: Nicolas Montavont, IMT Atlantique.

05/16 - 08/16 **Tadanori MATSUI (Research Intern)**, *M.Sc.*,
(4 months) **Subject:** "Toward Deterministic and Predictable Networks in Industrial-IoT applications".
Co-advisors: Nicolas Montavont & Géraldine Texier, IMT Atlantique.

04/16 - 09/16 **Alexandros Mavromatis (Research Intern)**, *B.Sc.*,
(6 months) **Subject:** "Synchronization optimization in multi-hop TSCH networks".
Co-advisors: Xenofon Fafoutis & George Oikonomou, University of Bristol.

11/13 - 06/14 **Vasileios Kotsiou (M.Sc. thesis)**, *M.Sc.*,
(6 months) **Subject:** "Optimizing ContikiMAC Protocol for Bursty Traffic in Mobile Wireless Sensor Networks".

10/13 - 03/14 **Kosmas Kritsis (B.Sc. thesis), B.Sc.**,
(6 months) **Subject:** "Performance Evaluation Methods in Ad-Hoc and Wireless Sensor Networks: A Literature Study".
Co-advisor: Antoine Gallais, University of Strasbourg.

List of Refereed Publications

Book Chapters [b]

- 2017 [t34-b1] "*Communication architectures and technologies for advanced Smart Grid Services*", F. Lemercier, G. Habault, G. Z. Papadopoulos, P. Maille, P. Chatzimisios & N. Montavont, To appear in **Transportation and Power Grid in Smart Cities: Communication Networks and Services**, John Wiley, 2017.

Journals [j], Magazines [m]. Surveys [s] & Letters [l]

- 2018 [t33-s1] "*A Tutorial on Performance Evaluation and Validation Methodology for Low-Power and Lossy Networks*", K. Kritsis, G. Z. Papadopoulos, A. Gallais, P. Chatzimisios and F. Theoleyre, In **IEEE Communications Surveys and Tutorials**, 2018.
- 2017 [t32-l2] "*Interconnection of Smart Grid and Electric Vehicles with a Charging System*", G. Habault, G. Le Gall, G. Z. Papadopoulos, N. Montavont and P. Chatzimisios, In **IEEE COMSOC MMTC Communications - Frontiers (E-letter)**, 2017.
- [t31-j4] "*Monitoring Traffic Optimization in Smart Grid*", G. Habault, M. LeFrancois, F. Lemercier, N. Montavont, P. Chatzimisios and G. Z. Papadopoulos, In **IEEE Transactions on Industrial Informatics**, 2017.
- [t30-j3] "*Thorough IoT testbed Characterization: from Proof-of-concept to Repeatable Experimentations*", G. Z. Papadopoulos, A. Gallais, G. Schreiner, E. Jou & T. Noel, In **Elsevier Computer Networks**, vol. 119, pp. 86-101, June 2017.
- [t29-l1] "*Privacy Leakage of Physical Activity Levels in Wireless Embedded Wearable Systems*", X. Fafoutis, L. Marchegiani, G. Z. Papadopoulos, R. Piechocki, T. Tryfonas & G. Oikonomou, In **IEEE Signal Processing Letters**, vol. 24, pp. 136-140, February 2017.
- 2016 [t28-j2] "*Low-Power Neighbor Discovery for Mobility-Aware Wireless Sensor Networks*", G. Z. Papadopoulos, V. Kotsiou, A. Gallais, P. Chatzimisios & T. Noël, In **Elsevier Ad Hoc Networks**, vol. 48, pp. 66-79, September 2016.
- [t27-m1] "*Performance Evaluation Methods in Ad-Hoc and Wireless Sensor Networks: A Literature Study*", G. Z. Papadopoulos, K. Kritsis, A. Gallais, P. Chatzimisios & T. Noël, In **IEEE Communications Magazine**, vol. 54, pp. 122-128, January 2016.
- 2015 [t26-j1] "*Wireless Medium Access Control under Mobility and Bursty Traffic Assumptions in WSNs*", G. Z. Papadopoulos, V. Kotsiou, A. Gallais, P. Chatzimisios & T. Noël, In **Springer Mobile Networks & Applications**, vol. 20, pp. 649-660, October 2015.

Standardization Efforts

- * "*Traffic-aware Objective Function*", C Ji, R. A. Koutsiamanis, G. Z. Papadopoulos, D. Dujovne and N. Montavont, **IETF ROLL Working Group**, draft-ji-roll-traffic-aware-objective-function-01, 21 March 2018
draft-ji-roll-traffic-aware-objective-function-00, 06 December 2017.
- * "*RPL DAG Metric Container (MC) Node State and Attribute (NSA) object type extension*", R. A. Koutsiamanis, G. Z. Papadopoulos, N. Montavont and P. Thubert, **IETF ROLL Working Group**, draft-koutsiamanis-roll-nsa-extension-01, 17 January 2018
draft-pkm-roll-nsa-extension-00, 26 October 2017.
- * "*Exploiting Packet Replication and Elimination in Complex Tracks in 6TiSCH LLNs*", G. Z. Papadopoulos, N. Montavont and P. Thubert, **IETF 6TiSCH Working Group**, draft-papadopoulos-6tisch-pre-reqs-01, 27 December 2017
draft-papadopoulos-6tisch-pre-reqs-00, 03 July 2017.

Conferences [c] and Workshops [w]

- 2018 [t25-c18] *"Improving LoRa Network Capacity Using Multiple Spreading Factor Configurations"*,
D. Zorbas, G. Z. Papadopoulos, Patrick Maille, Nicolas Montavont and C. Douligeris
To appear in Proc. **ICT** - Saint-Malo, France, June 2018.
- 2018 [t24-c17] *"LOST: Localized Blacklisting Aware Scheduling Algorithm for IEEE 802.15.4-TSCH Networks"*,
D. Zorbas, V. Kotsiou, F. Theoleyre, G. Z. Papadopoulos and C. Douligeris
To appear in Proc. **WD** - Dubai, UAE, April 2018.
- [t23-c16] *"Local or Global Radio Channel Blacklisting for IEEE 802.15.4-TSCH Networks?"*,
D. Zorbas, G. Z. Papadopoulos, and C. Douligeris
To appear in Proc. **IEEE ICC** - Kansas City, USA, May 2018.
- 2017 [t22-c15] *"LABEL: Link-based Adaptive BLacklisting Technique for 6TiSCH Wireless Industrial Networks"*,
V. Kotsiou, G. Z. Papadopoulos, P. Chatzimisios and F. Theoleyre
In Proc. **ACM MSWiM** - Miami Beach, USA, November 2017.
- [t21-c14] *"An Efficient Electric Vehicle Charging Architecture based on LoRa Communication"*,
A. Ouya, B. Martinez De Aragon, C. Bouette, G. Habault, N. Montavont and G. Z. Papadopoulos
To appear in Proc. **IEEE SmartGridCom** - Dresden, Germany, October 2017.
- [t20-c13] *"Link Quality and Path Based Clustering in IEEE802.15.4-2015 TSCH Networks"*,
A. Mavromatis, G. Z. Papadopoulos, X. Fafoutis, A. Goulianos, G. Oikonomou, P. Chatzimisios and T. Tryfonas
In Proc. **IEEE ISCC** - Heraklion, Crete, Greece, July 2017.
- [t19-c12] *"Leapfrog Collaboration: Toward Determinism and Predictability in Industrial-IoT applications"*,
G. Z. Papadopoulos, T. Matsui, P. Thubert, G. Texier, T. Watteyne & N. Montavont
In Proc. **IEEE ICC** - Paris, France, May 2017.
- [t18-c11] *"Is Local Blacklisting Relevant in Slow Channel Hopping Low-Power Wireless Networks?"*,
V. Kotsiou, G. Z. Papadopoulos, P. Chatzimisios & F. Theoleyre
In Proc. **IEEE ICC** - Paris, France, May 2017.
- 2016 [t17-c10] *"Guard Time Optimisation and Adaptation for Energy Efficient Multi-hop TSCH Networks"*,
G. Z. Papadopoulos, A. Mavromatis, X. Fafoutis, N. Montavont, R. Piechocki, T. Tryfonas & G. Oikonomou
In Proc. **IEEE WF-IoT** - Reston, VA, USA, December 2016.
- [t16-c9] *"A Mobility-Supporting MAC Scheme for Bursty Traffic in IoT and WSNs"*,
G. Z. Papadopoulos, V. Kotsiou, A. Gallais, G. Oikonomou, P. Chatzimisios, T. Tryfonas & T. Noël,
In Proc. **IEEE GLOBECOM** - Washington, D.C. USA, December 2016.
- [t15-c8] *"Experimental Validation of a Distributed Self-Configured 6TiSCH with Traffic Isolation in Low Power Lossy Networks"*,
Fabrice Theoleyre & G. Z. Papadopoulos,
In Proc. **ACM MSWiM** - Malta, November 2016.
- [t14-w3] *[invited] "Importance of Repeatable Setups for Reproducible Experimental Results in IoT"*,
G. Z. Papadopoulos, A. Gallais, G. Schreiner & T. Noël,
In Proc. **ACM PE-WASUN** - Malta, November 2016.
- [t13-c7] *"Guard Time Optimisation for Energy Efficiency in IEEE 802.15.4-2015 TSCH Links"*,
G. Z. Papadopoulos, A. Mavromatis, X. Fafoutis, R. Piechocki, T. Tryfonas & G. Oikonomou,
In Proc. **EAI InterIoT** - Paris, France, October 2016.
- [t12-c6] *"BMFA: Bi-Directional Multicast Forwarding Algorithm for RPL-based 6LoWPANs"*,
G. Z. Papadopoulos, A. Georgallides, T. Tryfonas & G. Oikonomou,
In Proc. **EAI InterIoT** - Paris, France, October 2016.
- 2015 [t11-c5] *"Optimizing the Handover Delay in Mobile WSNs"*,
G. Z. Papadopoulos, V. Kotsiou, A. Gallais, P. Chatzimisios & T. Noël,
In Proc. **IEEE WF-IoT** - Milan, Italy, December 2015.
- [t10-c4] *"Distributed Adaptive Scheme for Reliable Data Collection in Fault Tolerant WSNs"*,
G. Z. Papadopoulos, N. Pappas, A. Gallais, T. Noël & V. Angelakis,
In Proc. **IEEE WF-IoT** - Milan, Italy, December 2015.

- [t9-w2] *"Live Adaptations of Low-power MAC Protocols"*,
G. Z. Papadopoulos, A. Gallais, G. Schreiner & T. Noël,
In Proc. **ACM S3** - Paris, France, September 2015.
- 2014 [t8-c3] *"Toward a Packet Duplication Control for Opportunistic Routing in WSNs"*,
G. Z. Papadopoulos, J. Beaudaux, A. Gallais, P. Chatzimisios & T. Noël,
In Proc. **IEEE GLOBECOM** - Austin, TX USA, December 2014.
- [t7-c2] *"Enhancing ContikiMAC for Bursty Traffic in Mobile Sensor Networks"*,
Best Student Paper Award @ Sensor Networks Track,
G. Z. Papadopoulos, A. Gallais, T. Noël, V. Kotsiou & P. Chatzimisios,
In Proc. **IEEE SENSORS** - Valencia, Spain, November 2014.
- [t6-w1] *"T-AAD: Lightweight Traffic Auto-Adaptations for Low-power MAC Protocols"*,
Best Paper Award,
G. Z. Papadopoulos, J. Beaudaux, A. Gallais & T. Noël,
In Proc. **IEEE IFIP Med-Hoc-Net** - Piran, Slovenia, June 2014.
- 2013 [t5-c1] *"Adding value to WSN simulation using the IoT-LAB experimental platform"*,
G. Z. Papadopoulos, J. Beaudaux, A. Gallais, T. Noël & G. Schreiner,
In Proc. **IEEE WiMob** - Lyon, France, October 2013.

Demonstrations [d], Posters [p] & Competitions [c] in International Conferences

- 2017 [t4-p2] *"Poster: 4th Industrial Revolution: Toward Deterministic Wireless Industrial Networks"*,
T. Matsui, G. Z. Papadopoulos, P. Thubert, T. Watteyne & N. Montavont,
In Proc. **EWSN** - Uppsala, Sweden, February 2017.
- [t3-c1] *"Dependability Competition: Controlled Replication for Higher Reliability and Predictability in Industrial IoT Networks"*,
H. Jiang, Z. Brodard, T. Chang, A. Bouabdallah, N. Montavont, G. Texier, P. Thubert, T. Watteyne & G. Z. Papadopoulos,
In Proc. **EWSN** - Uppsala, Sweden, February 2017.
- 2016 [t2-p1] *"Poster Abstract: Impact of Guard Time Length on IEEE 802.15.4e TSCH Energy Consumption"*,
A. Mavromatis, G. Z. Papadopoulos, X. Fafoutis, A. Elsts, G. Oikonomou & T. Tryfonas,
In Proc. **IEEE SECON** - London, UK, June 2016.
- 2015 [t1-d1] *"Demo Abstract: Live Adaptations of Low-power MAC Protocols"*,
G. Z. Papadopoulos, A. Gallais, G. Schreiner & T. Noël,
In Proc. **ACM MobiCom** - Paris, France, September 2015.

National [n] Conferences

- 2017 [t2-n2] *"Vers les Réseaux Industriels Déterministes"*,
M. Kersalé, G. Z. Papadopoulos, J. M. Del Fiore, P. Thubert and N. Montavont,
Conférence Francophone sur les Réseaux de Communication (**CoRes**) - Quiberon, France.
- 2013 [t1-n1] *"Auto-configuration Proactive de la Couche MAC pour les Réseaux de Capteurs Sans Fil à Trafic Variable"*,
J. Beaudaux, G. Z. Papadopoulos, A. Gallais & T. Noël,
Journées Francophones Mobilité et Ubiquité (**UbiMob**) - Nancy, France.

Project Implication

- 03/18 - 06/20 **Équipement Jeune Chercheur**, *Principal Investigator*,
Allocation d'Installation Scientifique (AIS) 2018,
Rennes Métropole Grant for Young Researchers - **40.00 €** .
- 12/17 - 11/20 **Enabling Wireless Battery Management System (BMS) in Electrical Vehicles**,
CIFRE: Private Contract with Industrial Partner - **120.000 €** .
- 10/17 - 09/20 **TPI: Toward Deterministic and Predictable Industrial 4.0**, *Principal Investigator*,
Agence Nationale de Recherche (ANR) JCJC 2017, Acceptance Rate 14.1%,
French National Grant for Young Researchers - **241.056 €** .
- 07/17 - 12/18 **Smart Cyber-Physical Environments for Industry of the Future (SCEIF)**,
Projet de l'Académie Franco-Allemande (AFA),
French-Germany Academy - **20.000 €** .
- 10/17 - 09/18 **IFIGENI: Industrie du Futur, Ingénierie et GENie Industriel**,
Programme Industrie du Futur - Appel à projets interne du Fonds d'amorçage de l'IMT,
Internal Institute Mines-Télécom (IMT) call - **5.000 €**.
- 06/17 - 11/18 **MoTIF: Mobilité et Temps réel pour l'Industrie du Futur**, *Principal Investigator*,
Stratégie D'attractivité Durable (SAD) 2016 (9687) - Volet 2,
Brittany Region Grant for Young Researchers - **68.250 €**.

Past project involvements

- 01/16 - 05/16 **RERUM:**, REliable, Resilient and secUre IoT for sMART city applications, FP7 European Project
(2007-2013 grant number 609094).
- 09/12 - 12/15 **FIT**, Investissements d'avenir, Equipex - Future Internet of Things.
- 10/15 - 12/15 **Memorandum of Understanding (private collaboration)**, between ICube Laboratory, University of
Strasbourg, France and Institute for Information Industry (III), Taiwan.
- 10/12 - 05/14 **EXPRESS**, (PHC, programme STAR), EXPerimental REsearch in Sensor Systems.
- 10/10 - 05/11 **FLAVIA**, Flexible Architecture for Virtualizable future wireless Internet Access, FP7 European Project.

Scientific activities

Editorial Duties

Editor: Wireless Networks, Springer, since April of 2018

Editor: Internet Technology Letters, Wiley Online Library, since March of 2018

Organization Committee membership

General Co-Chair: AdHoc-Now 2018

Publicity Co-Chair: IEEE CSCN 2018

Workshops Co-Chair: IEEE ISCC 2017

Technical Co-Chair: IEEE GlobalSIP 2017

TPC membership

2018 IEEE CSCN, IEEE GLOBECOM, IEEE SenseApp, AdHoc-Now

2017 IEEE ISCC, ACM PE-WASUN, IEEE GlobalSIP, CoRes, IEEE ICC, WiOpt, ICT

2016 IEEE CCNC, IEEE CSCN, IEEE GLOBECOM, EAI InterIoT, IWCMC, IEEE CSE, ICT

2015 ACM CoNEXT Shadow TPC

Session Chair

IEEE GLOBECOM'17, RESCOM'16, EAI InterIoT'15, IEEE SENSORS'14, IFIP Med-Hoc-Net'14

Volunteering

IEEE WiMob 2013

External reviewer

- Journals MDPI Sensors: 2018 (2), 2017 (5), 2016 (1)
IEEE Transactions on Industrial Informatics (TII): 2018 (1), 2017 (2)
IEEE Internet of Things Journal (IoT-J): 2018 (1), 2016 (1)
IEEE Communications Magazine: 2018 (1), 2017 (1)
Elsevier Future Generation Computer Systems (FGCS): 2017 (2)
IEEE/ACM Transactions on Networking (TON): 2017 (1), 2016 (1)
IEEE Sensors Journal: 2017 (1), 2016 (1)
Elsevier Computer Networks (COMNET): 2017 (1), 2014 (1)
Internet Technology Letters, Wiley: 2018 (1)
IEEE Access: 2017 (1)
Elsevier Ad Hoc Networks (ADHOC): 2017 (1)
Elsevier Journal of Network and Computer Applications (JNCA): 2017 (1)
IEEE Transactions on Industrial Electronics (TIE): 2017 (1)
IEEE Communications Letters: 2016 (3), 2015 (1), 2014 (1)
Elsevier Sensors and Actuators A: Physical (SNA): 2016 (1)
Hindawi International Journal of Distributed Sensor Networks (IJDSN): 2016 (1)
Elsevier Computer Communications (COMCOM): 2015 (1)
Inderscience Publ. International Journal of Ad Hoc & Ubiquitous Computing (IAHUC): 2015 (1), 2013 (1)
Inderscience Publishers International Journal of Sensor Networks (IJSNET): 2015 (1)
Hindawi Journal of Sensors: 2015 (1)
Springer Annals of Telecommunications (ANTE): 2015 (1)
Springer Journal of Network and Systems Management (JONS): 2015 (1)
IEEE Journal of Biomedical & Health Informatics (J-BHI): 2013 (1)
- Conferences **2018:** IEEE CSCN, IEEE GLOBECOM (1), AdHoc-Now, IEEE SenseApp
2017: ACM PE-WASUN (2), IEEE INFOCOM (1), IEEE ICC (4), IEEE ISCC (3), WiOpt (5), ICT (2), CoRes (3)
2016: EAI InterIoT (4), IEEE CCNC (4), IEEE CSCN (2), IEEE CSE (3), IEEE GLOBECOM (4), IEEE VTC-Fall (1), IWCMC (5), ICT (4)
2015: IEEE CCNC (1), IEEE GLOBECOM (1)
2014: IEEE ETFA (1), IWCMC (1)
2013: IFIP SustainableIT (1)

Memberships

2010 - present **IEEE**, *Member*.

2011 - present **IEEE Communications Society**, *Member*.

2013 - present **IEEE Sensors Council**, *Member*.

2015 - present **IEEE Internet of Things Community**, *Member*.

2010 - 2012 **IEEE Student Branch at ATEI of Thessaloniki**, *Co-founder, Chair, Mentor*.

Languages

Greek, Russian, Turkish - Mother Tongue (trilingual), **English** - Excellent, **French** - Intermediate

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- Xavier Pérez Costa **Chief Researcher, Mobile & Wireless Network R&D**, NEC Laboratories Europe, Heidelberg, Germany.
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Interests & hobbies

Reading, chess, coin selection, Formula 1, basketball, movies, traveling, photography.

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