

# CURRICULUM VITAE

## VASOS VASSILIOU

### ADDRESS

#### Work:

Computer Science Department  
University of Cyprus  
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### RESEARCH INTERESTS

Protocol Design and Performance aspects of Networks (fixed, mobile, wireless), in particular:

- Wireless Sensor Networks
- Internet of Things
- Mobility Management
- Performance Control
- QoS Adaptation and Control
- Resource Allocation Techniques

### EDUCATION

**Georgia Institute of Technology**, Atlanta, GA

Ph.D. in Electrical Engineering and Computer Engineering, August 2002

**Georgia Institute of Technology**, Atlanta, GA

MSc degree in Electrical Engineering, June 1999

**University of South Florida**, Tampa, FL

BSc degree in Electrical Engineering, May 1997

**Higher Technical Institute**, Nicosia, Cyprus

HND diploma in Electrical Engineering, June 1993

### PROFESSIONAL EXPERIENCE

9/19 – now      **University of Cyprus**, Nicosia, Cyprus

Associate Professor, Computer Science Department  
Co-Director of Networks Research Laboratory

*Teaching in the Postgraduate and Undergraduate programs.  
Supervising researchers.*

- 11/17 – now **RISE Center of Excellence** in Research and Innovation on Interactive Media, Smart Systems and Emerging Technologies, Nicosia, Cyprus  
Principal Investigator & Research Group Leader, Smart Networked Systems Group  
*Member of the Scientific and Technical Committee.  
Performing Research in IoT and 5G.*
- 9/16 – now **Cyprus National Research and Educational Network (CyNet)**, Nicosia Cyprus.  
Chairman of the Board of Directors (Appointed to the board by the Senate of the University of Cyprus)  
*Guiding the National Research and Educational Network (NREN) to meet the challenges of the Future Internet. Overseeing the deployment of a 2.4Mln Euro Private Optical Network and the Establishment of an Academic Cybersecurity Incident Response Team (CSIRT) with 680K Euro funding.*
- 8/11 – 9/19 **University of Cyprus**, Nicosia, Cyprus  
Assistant Professor, Computer Science Department  
Co-Director of Networks Research Laboratory  
*Teaching in the Postgraduate and Undergraduate programs.  
Supervising researchers.*
- 12/13 – 01/16 **UBINEC Ltd**, Paphos, Cyprus  
Co-Founder and Chief Scientific Officer  
*Scientific Overview and Business Development of the VIRIDOM Home Energy Management solution.*
- 9/13 – 6/16 **Open University of Cyprus**, Nicosia, Cyprus  
Adjunct Faculty, Information and Communication Systems Program and Wireless Communications Systems Program
- 8/05 – 8/11 **University of Cyprus**, Nicosia, Cyprus  
Lecturer, Computer Science Department
- 1/04 – 8/05 Visiting Lecturer, Computer Science Department
- 9/02 – 1/04 **Intercollege**, Nicosia, Cyprus  
Assistant Professor, Computer Science Department
- 1/03 – 5/03 **University of Cyprus**, Nicosia, Cyprus  
Special Teaching Staff, Computer Science Department
- 9/00 – 8/02 **Georgia Institute of Technology**, Atlanta, GA  
Graduate Research Assistant, Computer Networking Lab  
*Researcher on Siemens AG project: "Methods for Flexible Rerouting in DiffServ/MPLS based Radio Access Networks." Work focused on the development of a suitable signaling protocol for an MPLS/DiffServ architecture with mobility handled by Mobile IP.*
- 9/99 – 9/00 Graduate Research Assistant, Mobile Multimedia and High Speed Networking Lab  
*Researcher on NSF project: "Issues on QoS Stability, Sensitivity, Flow and Congestion Control in Wireless Broadband Networks." Work focused on Wireless ATM and the characterization of events during QoS adaptation using control theory concepts and techniques  
Evaluated the performance of the ABR ad hoc network testbed.*

- 1/99 – 6/99    **Special Projects in Ad-Hoc Networks, Mobile Multimedia and High Speed Networking Lab**
- Participated in the implementation of the Associativity Based Routing (ABR) Protocol into a testbed comprised of laptop computers.*
- Evaluated the effects of periodic beaconing on the battery life of laptop computers when forming an ad-hoc network.*
- Investigated the field of ad hoc networks for wireless ATM.*
- 1/99 – 6/99    **BellSouth Mobility DCS, Atlanta, GA**
- 6/98 – 9/98    **RF Engineer (Co-op)**
- Performed propagation studies using PlaNet™. Evaluated potential cell site locations.*
- Analyzed drive test data for system optimization. Performed statistical analysis of network traffic and forecasting. Generated monthly coverage reports and maps using MapInfo™*
- 9/98 – 12/98    **Nortel Networks, Linecard Development Group, Alphar., GA**
- Firmware Engineer (Co-op)*
- Installed a new Automated Testing Platform for the Linecard products. Assisted in the design testing of the Japanese version of a linecard.*
- 1/98 – 6/98    **Georgia Institute of Technology, Atlanta, GA**
- Graduate Teaching Assistant, School of Electrical and Computer Engineering

## MEMBERSHIPS

- Senior Member, **Institute of Electrical and Electronics Engineers (IEEE)**, since April 2019; Member 2002-2009, Student Member 1997-2002. Membership#: 40198164.
- Senior Member, **Association for Computing Machinery (ACM)**, since June 2019; Member 2002-2009; Student Member 1997-2002. Membership#: 5245345.
- Elected **Member of the Executive Committee of the IEEE Cyprus Section**, since 2010
- Elected **Treasurer of the Executive Committee of the IEEE Cyprus Section**, Jan 2018 – Jan 2020
- Elected **Chair of the Communications Chapter, Cyprus Section** since 2013
- IEEE Communications Society (COMSOC) member since 1997.
- IEEE Computer Society member since 2010
- IEEE Computational Intelligence Society (CIS) member since 2010
- Member of the IEEE Technical Committees on: Computer Communications (TCCC), Internet (TCI), Multimedia Computing (TCMC)
- Member of the IEEE Communities on: Smart Cities, Internet of Things, Future Networks
- ACM SIGCOMM member since 2004, SIGMOBILE member, since 2004.
- Member, **Institute of Engineering and Technology (IET)**, former IEE, 2002-2013; Associate Member 1999-2002; Student Member 1995-1999. Membership# 36609837

- Academic Advocate of the Information Systems and Control Association (ISACA), since 2013
- Member of the IBM Academic Initiative, since 2013

## HONORS and AWARDS

- **1st Prize Award for Best Poster/Demo in the Innovation Track** for the work "*Lightweight Intrusion Detection System for WSNs and the Internet of Things*" at the 4th Innovation and Entrepreneurship Forum 2019, University of Cyprus, April 19, 2019.
- **Best Paper Award** for paper "*Estimating Queue Formation Rate in Wireless Sensor Networks Using a Fluid Dynamic Model*" at 20th IEEE International Symposium on Computers and Communication (ISCC '15), 6-9 July 2015, Larnaca, Cyprus
- Recipient of partial **Cyprus-America Scholarship** for Graduate Studies funded by the U.S. Agency for International Development. Administered in Cyprus by the **Fulbright Commission**, 1997-1999.
- **Infrastructure Grant** by the University of Cyprus (totaling 56000 euro) utilized to expand the experimental part of the Networks Research Lab into mobile technologies (IEEE 802.11g/n, ZigBee, Wireless Sensor Networks, Vehicular Networks, and Mobile IPv6), 2007-2009

## RESEARCH PROGRAM PARTICIPATION

### Current European Projects:

- 05/18 – 04/21 **DELTA - Future tamper-proof Demand rEsponse framework through seLf-configured, self-opTimized and collAborative virtual distributed energy nodes** (H2020, LCE01, Grant agreement ID: 773960), **Participant**.
- 12/17 – 11/20 **SENDING – Sector Skills Alliance for the Design and Delivery of Innovative VET Programs to Data Science and Internet of Things Professionals** (ERASMUS+ KA2, Grant Agreement 2017-3184/001-001), **PI**.
- 11/17 – 10/24 **RISE - Centre of Excellence on Interactive Media, Smart Systems and Emerging Technologies** (H2020, Widening Participation Teaming Project, Grant Agreement 739578), **co-PI, Scientific and Technical Committee, Group Leader**.
- 01/17 – 06/20 **VISORSURF - A Hardware Platform for Software-driven Functional Metasurfaces**, (H2020, Future Emerging Topics call (FETOPEN), Grant Agreement no. 736876), **Participant**.
- 01/19 – 12/20 **CYBERSAFETY II– Safer Internet for Kids** continuation (CEF TELECOM, DSI: Safer Internet, Grant Agreement 2018-CY-IA-0012), **co-PI**

09/18 – 08/20 **Establishment of Cypriot Academic CSIRT** (CEF TELECOM, DSI: Cyber Security, Grant Agreement 2017-CY-IA-0121), **PI**.

#### **Past European Projects:**

07/16 – 12/18 **CYBERSAFETY – Safer Internet for Kids** (CEF TELECOM, DSI: Safer Internet, Grant Agreement 2015-CY-IA-0034), **co-PI**

09/08 – 02/12 **GINSENG - Performance Control in Wireless Sensor Networks**, (FP7 ICT, 2008-1011, Grant Agreement 224282), **PI**

03/08 – 03/10 **C-CAST - Context Casting providing an end-to-end context-aware communication framework** (FP7 ICT, 2008-2010, Grant agreement 216462), **co-PI**.

03/06 – 02/08 **C-MOBILE - Advanced MBMS for the Future Mobile World**. (FP6 IST 2006-2008, Grant agreement 027423), **Participant**

03/04 – 06/06 **B-BONE: Broadcasting and Multicasting over Enhanced UMTS Mobile Broadband Networks** (FP6 IST 2004-2006, Grant agreement 507607), **Participant**

09/02 – 05/04 **SEACORN: Simulation of Enhanced UMTS access and CORE Networks** (FP5 IST 2001-2004 Grant agreement 34900), **Participant**

#### **European Networks of Excellence:**

01/06 – 02/08 **CRUISE**, CReating Ubiquitous Intelligent Sensing Environments (Network of Excellence on the Application and Communication aspects of Wireless Sensor Networking (FP6 NoE), **PI**.

01/04 – 06/06 **E-NEXT**: Network of Excellence in Emerging Networking Experiments and Technologies (FP6-NoE), **PI**.

05/04 – 11/04 **NEXWAY**: Network of Excellence in Wireless Applications and Technology (FP5-NoE), **co-PI**.

#### **Locally-Funded Projects:**

05/19 - -5/21 **SMIDS**: Detecting Malicious Interventions in Wireless Sensor Networks and the Internet of Things (UCY Internal Grant), **PI**.

01/09 – 02/11 **MIND2C**: Mimicking Nature for Designing Robust Congestion Control Mechanisms in Self-Organized Autonomous Decentralized Networks (Cyprus Research Promotion Foundation– ΤΠΕ/ΕΠΙΚΟΙ/0308(BE)/03), **co-PI**.

10/05 – 03/09 **NET6**: Next Generation IPv6 Research Network. (Cyprus Research Promotion Foundation – ΕΡΥΔΙ/0205/06), **PI**.

10/04 – 10/06 **BINTEO**: VIDEO Distribution in New-Generation Mobile Cellular Networks (GPRS/UMTS) (Cyprus Research Promotion Foundation – ΠΛΗΡΟ/0104/12), **co-PI**.

10/04 – 10/06 **ADAVIDEO**: Adaptive Methods for the Transmission of Video Streams in Wireless Networks, University of Cyprus, Small Research Projects, **co-PI**.

**COST Actions:**

03/16 – 03/20 **COST CA15104**: Inclusive Radio Communication Networks for 5G and beyond (**IRACON**), **MC Member**

05/11 – 05/15 **COST IC 1004**: Cooperative Radio Communications for Green Smart Environments, **MC Member**

11/10 – 11/14 **COST IC 1003**: European Network on Quality of Experience in Multimedia Systems and Services (**Qualinet**), **MC Member**

05/10 – 05/14 **COST IC 0906**: Wireless Networking for Moving Objects (**WiNeMO**), **Substitute MC Member**

12/06 – 12/10 **COST IC 2100**: Pervasive Mobile & Ambient Wireless Communications, **MC Member**

06/04 – 06/08 **COST 290**: Traffic and QoS Management in Wireless Multimedia Networks (**Wi-QOST**), **Substitute MC Member**

**ADMINISTRATIVE EXPERIENCE - UNIVERSITY COMMITTEES**

- **Co-Director, Networks Research Laboratory** – NetRL (since 2009)
- **Member of the Postgraduate Studies Committee** of the Department of Computer Science (since 2012)
- **Chairman of the Board of Directors of the Cyprus National Research and Educational Network (CyNet)**. Appointed to the board by the Senate of the University of Cyprus (since September 2016)
- **Member of the Senate Committee on “Campus Organization and Building Development (EOKTA)”** as the representative of the School of Theoretical and Applied Sciences (Sept. 2017-Sept. 2020)
- **Member of the Senate Committee on “International Relations”** as the representative of the School of Theoretical and Applied Sciences (April 2016-June 2019)
- **Member of the Board of Directors of the Centre for Teaching & Learning** as the representative of the School of Theoretical and Applied Sciences (April 2017 – July 2018)
- **Member of the Council of the School of Pure and Applied Sciences**, as the representative of the CS department (Jan. 2013 – Jan. 2015)

- **Member of the Senate Committee on “Public Relations”** as the representative of the School of Theoretical and Applied Sciences (April 2013 – April 2015)
- **Member of the Senate Committee on “University and the Society”** as the representative of the School of Theoretical and Applied Sciences (April 2013 - April 2015)
- **Member of the “Student Disciplinary Committee” of the Senate**, as the representative of the School of Theoretical and Applied Sciences (March 2011 - March 2013)
- **Member of the Office for Alumni Affairs** as the representative of the School of Theoretical and Applied Sciences (2008-2012)
- **Coordinator of the High School Teachers’ Pre-Service Program** for the Department of Computer Science (2007-2010)
- **Committee Chair of the Organizing Committee for the Annual “LOGIPAIGNION” Computer Games Competition** (2010, 2011, 2012, 2017)
- Organizing Committee member for the Annual “LOGIPAIGNION” Computer Games Competition (2009, 2013, 2016)
- Member of the Execution Committee for the Network IP Telephony project “Upgrade and Extension of Network Infrastructure: Supply of Equipment and Network Services” ADSOD038/11 (2013)
- Member of the Specifications Committee for the Tender for the Supply of a Backup System to UCY as part of the strategic Infrastructure and the eUniversity project ADSOD 068/11 (2012)
- Member of the Specifications Committee for PC, Servers and related Systems Tenders (2008, 2009)
- Member of the Evaluation Committee for Printers, Scanners and Plotters Tenders (2008, 2009)

## **PROFESSIONAL SERVICES AND TECHNICAL CONSULTING**

- **Hiring Committee External Member** at Neapolis University Paphos for the position of Lecturer in Distributed Systems/Databases/Big data (Jan 2019)
- **Member of** KY.Σ.A.T.Σ (Cyprus Council for the Recognition of Higher Education Qualifications) Judgment and Review Committees for Computer Engineering degrees (since 2012 - 2018)
- **Appointed Member by the Council of Ministers of the Republic of Cyprus** to the Advisory Board of the **Office of the Commissioner for Electronic Communications and Postal Regulation (OCECPR)** of Cyprus (July 2012 – July 2014)

- **Technical Expert** for the evaluation of proposals submitted to the Ministry of Commerce, Cyprus under the program "Support of Business Innovation" (2016-2017)
- **Technical Expert** for the evaluation of proposals submitted to the Ministry of Commerce, Cyprus under the program "Support of Business Innovation" (2012-2013)
- **EUROSTARS Technical Expert** (January 2013 - ), evaluated proposals in the 4<sup>th</sup> (10/2015) and 5<sup>th</sup> (10/2016) cut-offs
- **Independent Expert** for the evaluation of proposals for the Credits & Projects 2018 Program of the Fund for Scientific Research – **FNRS Belgium** (2018)
- **Independent Expert** for the evaluation of proposals for the Universitas Seed Grant program of the University of **Nicosia Research Foundation** (2016)
- **Independent Expert** for the evaluation of proposals for the **METRANS** Transportation Center (2014)
- **Independent Expert** for the evaluation of proposals for the **Croatian Science Foundation (CSF)** (2011)
- **Independent Expert** for the Evaluation of proposals in the Physical Sciences division of the Free Competition of the **Netherlands Organization for Scientific Research (NWO)** (2009)
- **Technical consultant** of the Cyprus Police Force (Sector D, Telecommunications Department) for the GPS-based Navigation and Fleet Control System and Automatic Number Plate Recognition Systems (2008)
- **External Assessor** for MSc in Computer Science with concentrations in Cyber Security, Mobile Systems at University of Nicosia, Cyprus (August 2014)
- **External Assessor** for M.Sc. Program in Applied Science (Software and Systems for Mobile Networks) at University College Cork, Ireland (March 2009)
- **External Assessor** for Diploma Program in Information and Communication Technologies at Intercollege, Cyprus (April 2006)

## **JOURNAL EDITORIAL BOARDS**

- Guest Editor for Special Issue "Responsible Smart Information Systems", **American Journal of Networks and Communications**, Science Publishing Group. Publication Q3 2020.
- **Guest Editor** for Special Issue "Machine Learning for Intelligent Wireless Communications and Networking", **Annals of Telecommunications**, Springer. Publication Q1 2020.
- Member of the **Editorial Board** of the **International Journal of Sensors Wireless Communications And Control**, Bentham Publishers, (Jan 2019)
- **Associate Editor** of the **Journal of Computer Communications**, Elsevier – IF 2.6 (since 2018)



- Member of the **Editorial Review Board** of the **Journal of Computer Science**, The Science Publications (since 2014).
- Member of the **Editorial Review Board** of the International **Journal of E-Health and Medical Communications**, IGI-Global (since 2011)
- **Associate Editor** of the **Journal of Telecommunication Systems**, Modeling, Analysis, Design and Management, Springer – IF 1.5 (since 2006)

## CONFERENCE ORGANIZATION

- **General Co-Chair**, EAI Fabulous 2020 Conference, June 1-3 2020.
- **Poster and Demo Chair**, IEEE 16th International Conference on Distributed Computing in Sensor Systems (**DCOSS 2020**), May 25-27 2020, Los Angeles, California, USA.
- **Workshop Co-Chair**, Workshop on Intelligent Systems for IoT (**ISIoT 2020**), May 25-27, 2020, Los Angeles, California, USA. (in conjunction with DCOSS '20)
- **Steering Committee Member**, Mediterranean Communications Networking Conference (**MED-COM-NET**), Since 2019.
- **Workshops and Special Sessions Co-Chair**, IEEE International Workshop on Computer-Aided Modeling Analysis and Design of Communication Links and Networks, (**CAMAD2019**), 11-13 September 2019, Limassol, Cyprus.
- **Workshop Co-Chair**, Workshop on Intelligent Systems for IoT (**ISIoT 2019**), 28-31 May 2019, Santorini, Greece. (in conjunction with DCOSS '19)
- **TPC Co-Chair**, 24th International Conference on Telecommunications (**ICT 2017**), May 3-5, 2017, Limassol, Cyprus.
- **Tutorials co-Chair**, 16<sup>th</sup> International Symposium on Signal Processing and Information Technology (**ISSPIT 2016**), 12-14 Dec. 2016, Limassol Cyprus.
- **General co-Chair**, 8<sup>th</sup> IFIP International Conference on New Technologies, Mobility and Security (**NTMS 2016**) 21-23 November 2016, Limassol, Cyprus.
- **Local co-Chair**, 12<sup>th</sup> International Wireless Communications & Mobile Computing Conference (**IWCMC 2016**) 5 – 9 September 2016, Paphos, Cyprus.
- **Track co-chair** 18th Mediterranean Electrotechnical Conference (**MELECON 2016**), 18 – 20 April 2016, Limassol, Cyprus.
- **TPC Co-Chair**, 20th IEEE International Symposium on Computers and Communication (**ISCC '15**), 6-9 July 2015, Larnaca, Cyprus.
- **Workshops Chair**, International Conference on Distributed Computing in Sensor Systems (DCOSS 2015) June 10 - 12 2015., Fortaleza, Brazil.

- **Workshop Co-Chair**, 7th International Workshop on Performance in Wireless Sensor Networks (**PWSN 2015**), 12 June, 2015, Fortaleza, Brazil. (in conjunction with DCOSS '15)
- **Workshop Co-Chair**, 6th International Workshop on Performance in Wireless Sensor Networks (**PWSN 2014**), 28 May, 2014, Marina Del Rey, CA, USA. (in conjunction with DCOSS '14)
- **Workshop Co-Chair**, 5th International Workshop on Performance in Wireless Sensor Networks (**PWSN 2013**), 23 May, 2013, Cambridge, MA, USA. (in conjunction with DCOSS '13)
- **Vice-General Chair**, The 15th ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (**MSWiM 2012**), 21-25 October 2012, Paphos, Cyprus.
- **TPC Co-Chair**, 11th Annual Mediterranean Ad Hoc Networking Workshop (**MEDHOCNET '12**), 19-22 June 2012, Ayia Napa, Cyprus.
- **Workshop Co-Chair**, 4th International Workshop on Performance in Wireless Sensor Networks (**PWSN 2012**), 18 May, 2012, Hangzhou, China. (in conjunction with DCOSS '12)
- **Workshop Co-Chair**, 3rd International Workshop on Performance in Wireless Sensor Networks, **PWSN 2011**, 29 June, 2011, Barcelona, Spain. (in conjunction with DCOSS '11, the 7th IEEE International Conference on Distributed Computing in Sensor Systems)
- **Local Organizing Committee Chair**, 18th International Conference on Telecommunications (**ICT 2011**), 8-11 May 2011, Ayia Napa, Cyprus.
- **Sponsorship co-Chair**, 7th European Conference on Wireless Sensor Networks, **EWSN 2010**, Coimbra, Portugal.
- **Steering Committee Member**, 12<sup>th</sup> European Wireless Conference 2006 (**EW 2006**), 2-5 April, 2006, Athens, Greece.
- **Local Organizing Chair**, 11<sup>th</sup> European Wireless Conference (**EW 2005**), April 10-13, 2005, Nicosia, Cyprus.

## **TECHNICAL PROGRAM COMMITTEE MEMBERSHIP**

**IEEE GLOBECOM SAC IoT** - IEEE Global Communications Conference. 9-13 December 2019, Waikoloa, HI, USA

**COCONET 2019** - Third International Conference on Computing and Network Communications, December 18-21, 2019, Kerala, India.

**IEEE APACE 2019** - 2019 IEEE Asia-Pacific Conference on Applied Electromagnetics, 25 - 27 Nov 2019, Malaysia.

**IEEE MENACOM 2019** - Middle East & North Africa COMMUNICATIONS Conference, 19-21 November 2019, Manama, Bahrain

**IEEE ICCVE 2019** – International Conference on Connected Vehicles and Expo, 4-8 November 2019, Graz, Austria

**IEEE CAMAD 2019** - IEEE International Workshop on Computer-Aided Modeling Analysis and Design of Communication Links and Networks, 11-13 September 2019, Limassol, Cyprus.

**IEEE PIMRC 2019** - 30th Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, September 8-11, 2019, Istanbul, Turkey.

**ISCC 2019** – 24th Symposium on Computers and Communications, June 29- July 3, 2019, Barcelona, Spain.

**ISNCC 2019** - International Symposium on Networks, Computers and Communications, 18-20 June 2019, Istanbul, Turkey.

**IEEE DCOSS 2019** – 15<sup>th</sup> International Conference on Distributed Computing in Sensor Systems, May 29-31 2019. Santorini Island, Greece

**ICC MWN 2019** – 53rd IEEE International Conference on Communications, Mobile and Wireless Networks Symposium, 20-24 May 2019, Shanghai, China

**ICC DDINS 2019** – 53rd IEEE International Conference on Communications, 1st International Workshop on Data Driven Intelligence for Networks and Systems, 20-24 May 2019, Shanghai, China

**IEEE VTC-Spring 2019** - IEEE 89th Vehicular Technology Conference, 28 April – 1 May 2019, Kuala Lumpur, Malaysia

**WCNC 2019** - IEEE Wireless Communications and Networking Conference, 15-18 April 2019, Marrakech, Morocco

**ICT 2019** - 26th International Conference on Telecommunications, April 8-10, 2019, Ha Noi, Vietnam.

**GIIS 2018** - Global Information Infrastructure and Networking Symposium, October 23-25, Thessaloniki, Greece

**EECSI 2018** - 5th International Conference on Electrical Engineering, Computer Science and Informatics, October 16-18, 2018, Malang, Indonesia.

**ICACCI 2018** - International Conference on Advances in Computing, Communications and Informatics, 19-22 September 2018, Bangalore, India

**CAMAD 2018** - IEEE International Workshop on Computer-Aided Modeling Analysis and Design of Communication Links and Networks, 17-19 September 2018, Barcelona, Spain

**PIMRC 2018** –29th Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, September 9-12, 2018, Bologna, Italy.

**COCONET 2018** - Second International Conference on Computing and Network Communications, August 15-17, 2018, Astana, Kazakhstan

**WINSYS 2018** - the 15<sup>th</sup> International Conference on Wireless Networks and Mobile Systems, 26-28 July 2018, Porto, Portugal

**ISCC 2018** – 23rd IEEE Symposium on Computers and Communications, 25-28 June 2018, Natal, Brazil.

**ISNCC2018** - International Symposium on Networks, Computers and Communications – Smart Communications Systems Track, 19-21 June 2018, Rome, Italy

**VTC Spring 2018** - IEEE 87th Vehicular Technology Conference, 3–6 June 2018, Porto, Portugal

**ICCISN 2018** - International Conference on Computer Intelligent Systems & Networking, January 3-5 2018, Sousse, Tunisia

**ICACCI 2017** - International Conference on Advances in Computing, Communications and Informatics, 13-16 September 2017, Karnataka, India

**WINSYS 2017** - the 14<sup>th</sup> International Conference on Wireless Networks and Mobile Systems, 24-26 July 2017, Madrid, Spain

**ISCC 2017** - 22nd IEEE Symposium on Computers and Communications, 3-6 July 2017, Heraklion, Crete, Greece

**MoCS 2017** – 7th Workshop on Management of Cloud and Smart City Systems, July 2017, Heraklion, Greece, in conjunction with the 22nd IEEE Symposium on Computers and Communications (ISCC 2017).

**CAMAD 2017** - The 22<sup>nd</sup> IEEE International Workshop on Computer-Aided Modeling Analysis and Design of Communication Links and Networks, 19-21 June 2017, Lund, Sweden

**ISTA'16** - International Symposium on Intelligent Systems Technologies and Applications, September 21-24, 2016, Jaipur, India

**ISCC 2016** - 21st IEEE Symposium on Computers and Communications, 27-30 June 2016, Messina, Italy.

**MoCS 2016** - Sixth Workshop on Management of Cloud and Smart City Systems, June 27 2016, Messina, Italy in conjunction with the twenty first IEEE Symposium on Computers and Communications (ISCC 2016).

**IEEE ICC 2016 E-Health** - IEEE International Conference on Communications, 23-27 May 2016, Kuala Lumpur, Malaysia

**ICT 2016** – 23rd International Conference on Telecommunications (ICT 2016), 16-18 May 2016, Thessaloniki, Greece

**S-IoT'2016** -2016 International Workshop on Scalable Internet of Things (held in conjunction with MoWNet'2016), April 11-13, 2016, Cairo, Egypt,

**DoCEIS'16** - 7th Advanced Doctoral Conference on Computing, Electrical and Industrial Systems, 11-13 April 2016, Lisbon, Portugal.

**IEEE WCNC 2016** - IEEE Wireless Communications and Networking Conference, 3-6 April 2016, Doha, Qatar.

**GIIS 2015** - The 6th Global Information Infrastructure and Networking Symposium, 28-30 October 2015, Guadalajara, Mexico

**ICCVE 2015** - The 4th International Conference on Connected Vehicles & Expo (in conjunction with the 2nd APEC Internet of Vehicles Symposium) October 19-23, 2015, Shenzhen, China.

**IEEE Healthcom 2015** -IEEE 17th International Conference on e-Health Networking, Applications and Services, 14 - 17 October 2015, U.S.A, Boston, MA.

**ICCCN 2015** - The 24th International Conference on Computer Communications and Networks, August 3 – August 6, 2015, Las Vegas, Nevada, USA.

**ICTMC 2015** - International Conference on Theory and Practice in Modern Computing, 22 – 24 July 2015, Las Palmas de Gran Canaria, Spain.

**MobiMWareHN 2015** - ACM International Workshop on Mobility and MiddleWare Management in HetNets (held in conjunction with ACM MobiHoc 2015), June 22-25, 2015, Hangzhou, China.

**IEEE WCNC 2015** - IEEE Wireless Communications and Networking Conference: Mobile and Wireless Networks, 9-12 March 2015, New Orleans, LA USA

**ICCAAD 2015** - International Conference on Computer Applications & Aided Diagnosis, 18-19 January 2015, Sousse, Tunisia

**CAMAD 2014** - The International Workshop on Computer-Aided Modeling Analysis and Design of Communication Links and Networks, 1-3 December 2014, Athens, Greece

**Globecom 2014**, GLOBECOM, Symposium on Selected Areas in Communications, – eHealth Track, 8-12 December 2014, Austin, TX, USA

**HEALTHCOM 2014** – IEEE 16th International Conference on e-Health Networking, Applications and Services, 15-18 October 2014, Natal, RN, Brazil

**GIIS 2014** - Global Information Infrastructure and Networking Symposium, September 15-19, 2014, Montreal, Canada

**LCN 2014** - The 39th IEEE Conference on Local Computer Networks, 8-11 September 2014, Edmonton, Canada

**WINSYS 2014** - International Conference on Wireless Information Networks and Systems, 28-30 August 2014, Vienna, Austria

**ISCC 2014** - 19th IEEE International Symposium on Computer and Communications, 23-26 June 2014, Madeira, Portugal

**ADHOCNOW 2014** - 13th International Conference on Ad-Hoc Networks and Wireless, 22-27 June 2014, Benidorm, Spain

**WCNC 2014** - IEEE Wireless Communications and Networking Conference: Mobile and Wireless Networks, 6-9 April 2014, Istanbul, Turkey

**ICCVE 2013** - 2013 International Conference on Connected Vehicles & Expo, 2-6 December 2013, Las Vegas

**HP-MOSys 2013** - 2nd ACM Workshop on “High Performance Mobile Opportunistic Systems”, 3-8 November 2013, Barcelona, Spain

**GIIS 2013** - The 4th Global Information Infrastructure and Networking Symposium, 28-31 October 2013, Trento Italy

**HEALTHCOM 2013** - 15th IEEE International Conference on e-Health Networking, Application & Services, 9-12 October 2013, Lisbon, Portugal

**VCA 2013** - Second International Workshop on Vehicular Communications and Applications, 7-11 October 2013, Goettingen, Germany

**CAMAD 2013** - The International Workshop on Computer-Aided Modeling Analysis and Design of Communication Links and Networks, 25-17 September 2013, Berlin, Germany

**ISWCS 2013** - International Symposium on Wireless Communications Systems, 27-30 August 2013, Ilmenau, Germany

**TPMC 2013** - IADIS International Conference on Theory and Practice in Modern Computing 2013, 22-24 July, Prague, Czech Republic

**ISCC 2013** - 18th IEEE Symposium on Computers and Communications. 7-10 July 2013, Split Croatia

**MED-HOC-NET 2013** - 12th Annual Mediterranean Ad Hoc Networking Workshop, 24-26 June 2013, Ajaccio, Corsica, France

**ISCI 2013** - IEEE Symposium on Computers & Informatics, 7-9 April, Langkawi, Malaysia

**EUC 2012** - 10th IEEE/IFIP International Conference on Embedded and Ubiquitous Computing, 5-7 December 2012, Paphos, Cyprus

**WCNC 2012** - IEEE Wireless Communications and Networking Conference: Mobile and Wireless Networks (WCNC 2012), 1-4 June 2012, Paris, France

**ICUMT 2011** - The 3rd International Congress on Ultra Modern Telecommunications and Control Systems (ICUMT), 5-7 October 2011, Budapest, Hungary

**WPMC 2011** - The 14th International Symposium on Wireless Personal Multimedia Communications, October 2011, France

**PWSN 2011** - 3rd International Workshop on Performance in Wireless Sensor Networks (PWSN), 29 June, 2011, Barcelona, Spain

**HOBSENSE 2011** - 1st IEEE Workshop on Holistic Building Intelligence through Sensing Systems (HOBSENSE), 29 June, 2011, Barcelona, Spain

**ICC 2011 SAC EH** - IEEE International Conference on Communications (ICC 2011) Symposium on Selected Areas in Communications, e-Health Track, June 5-9, 2011, Kyoto, Japan

**ICT 2011** - 18th International Conference on Telecommunications (ICT 2011), 8-11 May 2011, Ayia Napa, Cyprus

**PIMRC 2010** - 21st Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC 2010), 26-30 September 2010, Istanbul, Turkey

**MobiFNet 2010** - The First International Workshop on Mobility in Future Networks. In conjunction with FutureTech 2010, 21-23 May 2010, Busan, Korea

**ISCCSP 2010** - The 4th International Symposium on Communications, Control and Signal Processing (ISCCSP 2010), 3-5 March 2010, Limassol, Cyprus

**ITAB 09** - 9th International Conference on Information Technology and Applications in Biomedicine, November 5-7, 2009, Larnaca, Cyprus

**MASS09** - Sixth IEEE International Conference on Mobile Ad-hoc and Sensor Systems, October 12-15, 2009, Macau, SAR, P.R.C

**DWSAN4CIP09** - International Workshop on Dependable Wireless Sensor and Actuator Networks or Critical Infrastructure Protection, November 10, 2009, Madrid, Spain

**WPMC09** - The 12th International Symposium on Wireless Personal Multimedia Communications, September 7 - 10, 2009, Sendai, Japan

**WOC09** - The Ninth IASTED International Conference on Wireless and Optical Communications, July 6 - 8, 2009. Banff, Alberta, Canada

**LBSA 09** - Workshop on "Location-based services (LBS) and applications", September 22, 2009, Vienna, Austria

**IWCMC 2009** - Cross-Layer Optimized Wireless Networks Symposium, June 21-24, 2009, Leipzig, Germany

**ICT 09** - The Sixteenth IEEE International Conference on Telecommunications, 25 - 27 May, 2009, Marrakech, Morocco

**ICA3PP 08** - 8th international Conference on Algorithms and Architectures for Parallel processing, June 9-11 2008, Ayia Napa, Cyprus

**BWA 08 Workshop** - 3rd IEEE BWA Workshop, co-located with IEEE ICC 2008, May 2008, Beijing, PRC

**WOC 08** - The Eighth IASTED International Conference on Wireless and Optical Communications, May 26 - 28, 2008, Quebec City, Canada

**ICA3PP 08** - 8th International Conference on Algorithms and Architectures for Parallel Processing, June 9-11, 2008, Ayia Napa, Cyprus

**BWA 07 Workshop** - 2nd IEEE BWA Workshop, co-located with IEEE CCNC 2008, 12 January 2008, Las Vegas, Nevada, USA

**PIMRC 2007**- 18th IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, September, 3-7, 2007, Athens, Greece

**EW 2007** - 13th European Wireless Conference, April 1-4, 2007, Paris France

**VTC-Spring 2007**- IEEE 65th Vehicular Technology Conference VTC2007-Spring, 22 - 25 April 2007, Dublin, Ireland

**MCWC2006** - Mobile Computing and Wireless Communications International Conference, 17-20 September 2006, Amman, Jordan

**GLOBECOM 2006** - 49th Annual IEEE GLOBECOM conference, November 27-December 1 2006, San Francisco, CA.

**PIMRC2006** - 17th IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, September, 11-14, 2007, Helsinki, Finland

**EW 06** - 12th European Wireless Conference, April 2 - 5, 2006 - Athens, Greece

**WNET 06** - The IASTED International Conference on Wireless Networks and Emerging Technologies, July 3 - 5, 2006, Banff, Alberta, Canada

**ISYC 06** - International Conference on Intelligent Systems And Computing: Theory And Applications, 6-7 July 2006, Ayia Napa, Cyprus

**WEMIC 06** - First Wireless Euro-Mediterranean International Conference (WEMIC 2006), 27-29 March 2006, Amman, Jordan

**WMSCI 06** - The 10th World Multi-Conference on Systemics, Cybernetics and Informatics, 16-19 July, 2006, Orlando, Florida, USA

**PIMRC 05** - The 16th Annual IEEE International Symposium on Personal Indoor and Mobile Radio Communications, September 11 - 14, 2005, Berlin, Germany

**WNET 05** - The IASTED International Conference on Wireless Networks and Emerging Technologies, July 19-21, 2005, Banff, Alberta, Canada

**EW 05** - 11th European Wireless Conference, April 2005, Nicosia, Cyprus

**WNET 04** - The IASTED International Conference on Wireless Networks and Emerging Technologies, July 8-10, 2004, Banff, Alberta, Canada

**ICWN 03** - International Conference on Wireless Networks, June 23 - 26, 2003, Las Vegas, Nevada, USA

**Reviewer (in addition to above) for:** Healthcom 2018, Globecom 2017, SmartIoT 2017, EW2015, LCN 2015, GIIS 2015, WMSCI 2014, VTC2013-Fall, VTC2012-Spring, DOCeis 2012, MobiWAC 2012, LATINCOM 2012, ICC2012 (AHSN and WN), VTC Fall 2011, ISWCS 2010, VTC Spring 2011, VTC Fall 2010, MASS 2010, VTC-Spring 09, WCNC 09, WPMC 08, ISWCS 08, VTC-Fall 2008, WOC 2008, ICA3PP2008, VTC-Spring 2008, BWA 2007, ISWCS 07, VTC-Fall 2007, WCNC 2007, VTC-Spring 2007, OPODIS06, MCWC06, GLOBECOM06, WNET06, PIMRC06, EW06, WEMIC06, WWIC06, PIMRC05, EW05, Networking05, ISCC05, AICCSA05, COMNET 6/04, WNET04, Networking 2004, ISCC2004, WWIC2004, ICC2004, ISCC 2003, INFOCOM 2003, IFIP Networking '02, INFOCOM 2000, IEEE PIMRC '00, and AMOC '00.

**Journal Reviewer** (year of review):

IEEE Access (2018), InderScience International Journal of Sensor Networks (2016), Elsevier Ad-Hoc Networks (2014, 2012), International Journal of Computer Mathematics (2013, 2012, 2011, 2009, 2008), African Journal of Mathematics and Computer Science Research (2014), Ad Hoc and Sensor Wireless Networks (2012), Computer Communications Journal (2010), Journal of Network and Computer Applications (2011), ACM Transactions on Sensor Networks (2010), EURASIP Journal on Wireless Communications and Networking (2012, 2010), Transactions on Mobile Computing (2006) Elsevier Computer Networks Journal (2011, 2010, 2006), IEEE JSAC Wireless Series (2006), IEEE Communications Surveys and Tutorials (2004).

## **PUBLICATIONS**

### **Book chapters**

- BC.5 S. Abadal, C. Liaskos, A. Pitsillides, **V. Vassiliou**, J. Sole-Pareta, A. Cabellos-Aparicio, E. Alarcon, "Terahertz Programmable Metasurfaces: Networks inside Networks", *In Nanoscale Networking and Communications Handbook*. USA: CRC Press. Publication: 2019
- BC.4 Z. Zinonos, C. Chysostomou, and **V. Vassiliou**, "Fuzzy Logic Control for Mobility Support in Industrial Wireless Sensor Networks," *in Cooperative Robots and Sensor Networks*, Anis Koubaa and Abdemajid Khelil (Eds), *Springer*, ISBN: 978-3-642-55028-7, 2014, pp 205-230.
- BC.3 C. Sergiou and **V. Vassiliou**, "Efficient Node Placement for Congestion Control in Wireless Sensor Networks", *in Wireless Sensor Networks - Technology and Applications*, Mohammad Matin (Ed.), ISBN: 978-953-51-0676-0, InTech. Publication Date: 18 Jul. 2012.
- BC.2 J. Antoniou, V. Papadopoulou, **V. Vassiliou** and A. Pitsillides, "Network Selection and Handoff in Wireless Networks: a Game Theoretical Approach" *in Game Theory*



for *Wireless Communications and Networking*, Y. Zhang and M. Guizani Eds., Auerbach Publications, CRC Press, Taylor & Francis Group, ISBN: 9781439808894. Publication Date: 21 Jun. 2011.

- BC.1 C.-K. Toh and **V. Vassiliou**, "The Effects of Beaconing on the Battery Life of Ad hoc Mobile Computers" in *Ad Hoc Networking*, C.E. Perkins Ed., Boston MA: Addison-Wesley Longman Publishing Co., 2001, pp. 299-321.

## Editorials / Proceedings

- EP.10 C. Verikoukis, V. Vassiliou and P. Bellavista, Proceedings of the 24<sup>th</sup> International Conference on Telecommunications (ICT 2017), IEEE.
- EP.9 E. Kyriakides et al., Proceedings of the 18th Mediterranean Electrotechnical Conference (MELECON 2016), IEEE.
- EP.8 **V. Vassiliou** and H. Wang, Proceedings of the 20th IEEE International Symposium on Computers and Communication (ISCC '15), IEEE.
- EP.7 E. Nakamura, J. Sa Silva, and **V. Vassiliou**, Proceedings of the 7th International Workshop on Performance in Wireless Sensor Networks (PWSN 2015), IEEE.
- EP.6 C. Psounis and **V. Vassiliou**, Proceedings of the 6th International Workshop on Performance in Wireless Sensor Networks (PWSN 2014), IEEE.
- EP.5 U. Roedig and **V. Vassiliou**, Proceedings of the 5th International Workshop on Performance in Wireless Sensor Networks (PWSN 2013), IEEE.
- EP.5 **V. Vassiliou**, G. Heijenk, J. C. de Oliveira, Proceedings of the 11th Annual Mediterranean Ad Hoc Networking Workshop (MEDHOCNET '12), IEEE.
- EP.4 **V. Vassiliou**, L. Wolf, S. Kahnere, Proceedings of 4th International Workshop on Performance in Wireless Sensor Networks (PWSN 2012), IEEE.
- EP.3 **V. Vassiliou**, R. Vida, J. S. Silva, Proceedings of 3rd International Workshop on Performance in Wireless Sensor Networks (PWSN 2011) IEEE.
- EP.2 G. Giambene, M. C. Aguayo Torres, E. Monteiro, M. Ries, and **V. Vassiliou**, (Section Editors), "*Packet Scheduling and Congestion Control*" section, in Book "*Traffic and QoS Management in Wireless Multimedia Networks: COST 290 Final Report*" (Y.Koucheryavy et. al. Eds., 340 Pages) Lecture Notes in Computer Science, Springer-Verlag, New York, USA, 2009, ISBN-10: 0387855726, pp. 13-88.
- EP.1 F. Barcelo-Arroyo, M. C. Aguayo Torres, K. Al-Begain, I. Martin-Escalona and **V. Vassiliou**, (Section Editors), "*Mobility Support*" section, in Book "*Traffic and QoS Management in Wireless Multimedia Networks: COST 290 Final Report*" (Y.Koucheryavy et. al. Eds., 340 Pages) Lecture Notes in Computer Science, Springer-Verlag, New York, USA, 2009, ISBN-10: 0387855726, pp. 151-200.

## Journal Publications

- J.14 C. Ioannou and **V. Vassiliou**, "Security Agent Location in the Internet of Things," accepted to *IEEE Access*. Preprint available doi:10.1109/ACCESS.2019.2928414.
- J.13 C. Sergiou, **V. Vassiliou** and A. Paphitis, "Congestion Control in Wireless Sensor Networks through Dynamic Alternative Path Selection" *Elsevier Computer Networks Journal*, Volume 75, Part A, December 2014, pp. 226-238
- J.12 C. Sergiou, P. Antoniou and **V. Vassiliou**, "A Comprehensive Survey of Congestion Control Protocols in Wireless Sensor Networks ", *IEEE Communications Surveys and Tutorials*, Volume: 16, Issue: 4, Apr. 2014, pp. 1839-1859
- J.11 Z. Zinonos, C. Chysostomou, and **V. Vassiliou**, "Wireless Sensor Networks Mobility Management using Fuzzy Logic," *Elsevier Ad Hoc Networks Journal*, Volume 16, May 2014, Pages 70-87

- J.10 T. O'Donovan et al., "The GINSENG System for Wireless Monitoring and Control: Design and Deployment Experiences," *ACM Transactions on Sensor Networks (TOSN)*, vol. 10, no. 1, Feb. 2013, pp. 1 – 40.
- J.9 C. Sergiou and **V. Vassiliou**, "Estimating Maximum Traffic Volume in Wireless Sensor Networks Using Fluid Dynamics Principles," *IEEE Communications Letters*, vol. 17, no. 2, Feb. 2013, pp. 257-260.
- J.8 C. Sergiou, **V. Vassiliou**, and A. Paphitis, "Hierarchical Tree Alternative Path (HTAP) Algorithm for Congestion Control in Wireless Sensor Networks," *Elsevier Ad Hoc Networks Journal*, vol. 11, no. 1, Jan. 2013, pp. 257-272.
- J.7 F. J. Velez, O. Cabral, F. Merca and **V. Vassiliou**, "Service Characterization for Cost Benefit Optimization of Enhanced UMTS", *Telecommunication Systems Journal*, Apr. 2012, pp. 31-45.
- J.6 J. Antoniou, V. Papadopoulou, **V. Vassiliou** and A. Pitsillides, "Cooperative User-Network Interactions in Next Generation Communication Networks", *Computer Networks Journal*, vol. 54, no. 13, Sep. 2010, pp. 2239–2255.
- J.5 B.C. Sreenan, J.S. Silva, L. Wolf, R. Eiras, T. Voigt, U. Roedig, **V. Vassiliou** and G. Hackenbroich, "Performance Control in Wireless Sensor Networks: the Ginseng Project," *IEEE Communications Magazine*, vol. 47, no. 8, pp. 1 -4.
- J.4 **V. Vassiliou** and Z. Zinonos, "An Analysis of the Handover Latency Components in Mobile IPv6", *Journal of Internet Engineering*, vol. 3, no. 1, Dec. 2009, pp. 230-240.
- J.3 **V. Vassiliou** and A. Pitsillides, "Supporting Mobility Events within a Hierarchical Mobile IP-over-MPLS Network", *Journal of Communications (JCM)*, Vol.2, Issue: 2, Mar. 2007, pp. 61-70.
- J.2 R. Vida, et al., "Mobile and Ambient Environments of the Future: Research Challenges for Wireless Ad-Hoc and Sensor Networks," *China Communications Journal*, vol. 3, no 3, Jun. 2006, pp. 99-106.
- J.1 D. A. Barlow, **V. Vassiliou**, S. Krasser, H. Owen, , J Grimminger, H-P Huth, and J. Sokol, "Traffic Engineering Based on Local States in Internet Protocol-Based Radio Access Networks," *Journal of Communications and Networks*, Vol. 7, No 3, , Sep. 2005, pp377-384.

## Conference Publications

(complete paper submission with peer review and complete paper published in the proceedings)

- C.73 A. Nicolaou, N. Temene, C. Sergiou, C. Georgiou, and **V. Vassiliou**, "Utilizing Mobile Nodes for Network Recovery in Wireless Sensor Networks," *30th Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC 2019)*, 8-11 September 2019, Istanbul, Turkey.
- C.72 Z. Zinonos and **V. Vassiliou**, "Mobility Management Solutions in Industrial Wireless Sensor Networks" in *Proc. 1<sup>st</sup> Workshop on Intelligent Systems for IoT (ISIoT2019)*, held in conjunction with the 15th International Conference on Distributed Computing in Sensor Systems (DCOSS19), May 29-31, 2019, Santorini, Greece.
- C.71 C. Ioannou and **V. Vassiliou**, "Classifying Security Attacks in IoT Networks Using Supervised Learning," in *Proc. 1<sup>st</sup> Workshop on Intelligent Systems for IoT (ISIoT2019)*, held in conjunction with the 15th International Conference on Distributed Computing in Sensor Systems (DCOSS19), May 29-31, 2019, Santorini, Greece.
- C.70 A. Nicolaou, N. Temene, C. Sergiou, C. Georgiou, and **V. Vassiliou**, "Utilizing Mobile Nodes for Congestion Control in Wireless Sensor Networks (Poster)", in *Proc. 15<sup>th</sup> International Conference on Distributed Computing in Sensor Systems (DCOSS 2019)*, May 29-31 2019. Santorini Island, Greece

- C.69 C. Ioannou and **V. Vassiliou**, "An Intrusion Detection System for Constrained WSN and IoT Nodes Based on Binary Logistic Regression", in *Proc. 21st ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM 2018)*, October 28th - November 2nd, 2018, Montreal, Canada
- C.68 Z. Zinonos, **V. Vassiliou**, and K. Christodoulou, "Reliable Mobility Support for e-Health Monitoring: A Performance Evaluation", in *Proc. IEEE 2018 Innovations in Intelligent Systems and Applications (INISTA 2018)*, 3-5 July, 2018, Thessaloniki, Greece.
- C.67 C. Ioannou, **V. Vassiliou**, and C. Sergiou, "An Intrusion Detection System for Wireless Sensor Networks", in *Proc. 24th International Conference on Telecommunications (ICT 2017)*, 3-5 May 2017, Limassol, Cyprus.
- C.66 C. Sergiou, **V. Vassiliou**, C. Georgiou, C. Ioannou, N. Temene, A. Paphitis, "Competition: Dynamic Alternative Path Selection in Wireless Sensor Networks", *14th Conference on Embedded Wireless Systems and Networks – Dependability Competition (EWSN 2017)*, Feb. 20-22, 2017, Upsalla, Sweden.
- C.65 C. Sergiou, **V. Vassiliou**, and A. Paphitis, "Evaluation of a Fluid Dynamic Model in Wireless Sensor Networks for the Estimation of Maximum Traffic Volume," in *Proc. 8th IFIP International Conference on New Technologies, Mobility and Security (NTMS 2016)*, 21-23 November 2016, Limassol, Cyprus.
- C.64 C. Ioannou, **V. Vassiliou**, and C. Sergiou, "RMT, a Wireless Sensor Network Monitoring Tool", in *Proc. 19th ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM '16)*, 13-17 Nov 2016, Malta.
- C.63 C. Ioannou and **V. Vassiliou**, "The Impact of Network Layer Attacks in Wireless Sensor Networks", in *Proc. The International Workshop on Secure Internet of Things 2016 (SIoT 2016) in conjunction with the European Symposium on Research in Computer Security (ESORICS 2016)*, 26-30 Sept. 2016, Heraklion, Crete
- C.62 C. Sergiou, **V. Vassiliou**, and A. Paphitis, "RF Energy Harvesting in Wireless Sensor Networks for Critical Aircraft Systems - An Experimental Approach", in *Proc. 4th IEEE International Conference on Wireless for Space and Extreme Environments (WiSEE '16)*, 26-29 September 2016, Aachen, Germany.
- C.61 C. Sergiou, A. Bozic, C. Panagiotou, A. Paphitis, and **V. Vassiliou**, "Wireless Sensor and Actuators Networks for Intra-Vehicle Applications", in *Proc. 14th International Conference on Space Operations (SpaceOps 2016)*, 16-20 May 2016, Daejeon, Republic of Korea.
- C.60 C. Sergiou, **V. Vassiliou**, A. Paphitis, "Estimating Queue Formation Rate in Wireless Sensor Networks Using a Fluid Dynamic Model," in *Proc. 20th IEEE International Symposium on Computers and Communication (ISCC '15)*, 6-9 July 2015, Larnaca, Cyprus.
- C.59 Z. Zinonos, **V. Vassiliou**, C. Chrysostomou, "Adaptive Fuzzy Logic Mobility Management for WSN," in *Proc. Distributed Computing in Sensor Systems (DCOSS), 2014 IEEE International Conference on*, pp.302-307, 26-28 May 2014, Los Angeles.
- C.58 Z. Zinonos and **V. Vassiliou**, "Handoff Algorithms for Industrial Mobile Wireless Sensor Networks," in *Proc. Sixth IFIP International Conference on New Technologies, Mobility and Security (NTMS 2014)*, 30 Mar.-2 Apr. 2014, Dubai, UAE.
- C.57 C. Sergiou and **V. Vassiliou**, "HRTC: A Hybrid Algorithm for Efficient Congestion Control in Wireless Sensor Networks," in *Proc. Sixth IFIP International Conference on New Technologies, Mobility and Security (NTMS 2014)*, 30 Mar.-2 Apr. 2014, Dubai, UAE.
- C.56 Z. Zinonos, C. Chrysostomou, and **V. Vassiliou**, "Handoff Triggering for Wireless Sensor Networks with Performance Needs," in *Proc. 18th IEEE Symposium on Computers and Communications. (ISCC 2013)*, 7-10 July 2013, Split Croatia.

- C.55. Z. Zinonos, C. Chrysostomou, and **V. Vassiliou**, "Controlling the Handoff Procedure in an Oil Refinery Environment Using Fuzzy Logic," in *Proc. 10th IEEE/IFIP International Conference on Embedded and Ubiquitous Computing (EUC 2012)*, 5-7 December 2012, Paphos, Cyprus.
- C.54. Z. Zinonos, **V. Vassiliou**, and T. Christofides, "Radio Propagation in Industrial Wireless Sensor Network Environments: From Testbed to Simulation Evaluation," in *Proc. 7th ACM workshop on Performance Monitoring and Measurement of Heterogeneous Wireless and Wired Networks (in conjunction with MSWiM 2012) - PM2HW2N '12*, pp. 125-132, 21-26 October 2012, Paphos Cyprus.
- C.53. C. Sergiou, and **V. Vassiliou**, "Tree-Forming Schemes for Overload Control in Wireless Sensor Networks", in *Proc. 11th International 11th Annual Mediterranean Ad Hoc Networking Workshop (MED-HOC-NET '12)*, 19-22 June 2012, Ayia Napa, Cyprus.
- C.52. C. Sergiou, and **V. Vassiliou**, "Source-based Routing Trees for Efficient Congestion Control in Wireless Sensor Networks", in *Proc. 4th International Workshop on Performance Control in Wireless Sensor Networks (in conjunction with DCOSS 2012) - PWSN 2012*, 18 May 2012, Hangzhou, China.
- C.51. Z. Zinonos, C. Chrysostomou, and **V. Vassiliou**, "Mobility Management in WSNs Using Fuzzy Logic: An Industrial Application Scenario," in *Proc. Distributed Computing in Sensor Systems (DCOSS), 2012 IEEE 8th International Conference on*, pp.284-286, 16-18 May 2012, Hangzhou, China.
- C.50. C. Sergiou, and **V. Vassiliou**, "Performance Evaluation of the DAIPaS Congestion Control Algorithm in Wireless Sensor Networks", in *Proc. 3rd International Workshop on Performance Control in Wireless Sensor Networks (in conjunction with DCOSS 2011) - PWSN 2011*, 29 June 2011, Barcelona, Spain.
- C.49. Z. Zinonos, and **V. Vassiliou**, "S-GinMob: A Soft Handoff Solution for Mobile Users in Industrial Environments", in *Proc. 3rd International Workshop on Performance Control in Wireless Sensor Networks (in conjunction with DCOSS 2011) - PWSN 2011*, 29 June 2011, Barcelona, Spain.
- C.48. C. Sergiou, and **V. Vassiliou**, "Study of Lifetime Extension in Wireless Sensor Networks through Congestion Control Algorithms", in *Proc. 16th IEEE Symposium on Computers and Communications (ISCC '11)*, 28 June-1 July 2011, Kerkyra, Greece.
- C.47. R. Silva, Z. Zinonos, J. Sa Silva, **V. Vassiliou**, and J. Brandao, "Mobility in WSNs for Critical Applications", in *Proc. 16th IEEE Symposium on Computers and Communications (ISCC '11)*, 28 June-1 July 2011, Kerkyra, Greece.
- C.46. C. Sergiou, and **V. Vassiliou**, "DAIPaS: A Performance Aware Congestion Control Algorithm in Wireless Sensor Networks," in *Proc. 18th International Conference on Telecommunications (ICT 2011)*, 8-11 May 2011, Ayia Napa, Cyprus.
- C.45. Z. Zinonos, R. Silva, **V. Vassiliou**, J. S. Silva, "Mobility Solutions for Wireless Sensor and Actuator Networks with Performance Guarantees," in *Proc. 18th International Conference on Telecommunications (ICT 2011)*, 8-11 May 2011, Ayia Napa, Cyprus.
- C.44. M. Koutroullos, C. Sergiou, and **V. Vassiliou**, "Mobile-CC: Introducing Mobility to WSNs for Congestion Mitigation in Heavily Congested Areas," in *Proc. 18th International Conference on Telecommunications (ICT 2011)*, 8-11 May 2011, Ayia Napa, Cyprus.
- C.43. C. Sergiou, M. Koutroullos, and **V. Vassiliou**, "Mobile-CC: A Congestion Mitigation Approach using Mobile Nodes in Wireless Sensor Networks (Poster)," in *Proc. 10th ACM/IEEE Conference on Information Processing in Sensor Networks (IPSN 2011)*, Chicago, IL, April 12-14 2011.
- C.42. Z. Zinonos **V. Vassiliou**, C. Ioannou and M. Koutroullos, "Dynamic Topology Control for WSNs in Critical Environments," in *Proc. Third International Workshop on Wireless Sensor Networks: Theory and Practice (WSN 2011) in conjunction with NTMS 2011*, Paris, France, February 7-10, 2011.

- C.41. Z. Zinonos and **V. Vassiliou**, "Inter-Mobility Support in Controlled 6LoWPAN Networks," in *Proc. Workshop on Ubiquitous Computing and Networks (UbiCoNet 2010) in conjunction with GLOBECOM 2010*, Miami, FL, December 10, 2010.
- C.40. T. O'Donovan, J. Brown, U. Roedig, C. Sreenan, J do Ó, A. Dunkels, A. Klein, J.S. Silva, **V. Vassiliou**, and L. Wolf, "GINSENG: Performance Control in Wireless Sensor Networks (POSTER)," in *Proc. Seventh Annual IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON 2010)*, Boston, MA, 21-25 June 2010.
- C.39. C. Sergiou and **V. Vassiliou**, "Alternative Path Creation vs Data Rate Reduction for Congestion Mitigation in Wireless Sensor Networks (Poster)," in *Proc. 9<sup>th</sup> ACM/IEEE Conference on Information Processing in Sensor Networks (IPSN 2010)*, Stockholm, Sweden, April 12-16 2010.
- C.38. C. Sergiou and **V. Vassiliou**, "Energy Hole Prevention in Wireless Sensor Networks (Poster)," in *Proc. 9<sup>th</sup> ACM/IEEE Conference on Information Processing in Sensor Networks (IPSN 2010)*, Stockholm, Sweden, April 12-16 2010.
- C.37. C. Sergiou and **V. Vassiliou**, "Energy Utilization of HTAP under Specific Node Placements in Wireless Sensor Networks," in *Proc. 16<sup>th</sup> European Wireless 2010 (EW 2010)*, Lucca, Italy, April 12-16 2010.
- C.36. **V. Vassiliou** and C. Sergiou, "Performance Study of Node Placement for Congestion Control in Wireless Sensor Networks," in *Proc. 2nd International Workshop on Wireless Sensor Networks: theory and practice (WSN 2009)*, December 22, 2009, Cairo, Egypt
- C.35. C. J. Sreenan, U. Roedig, J. Brown, C. A. Boano, A. Dunkels, Z. He, T. Voigt, **V. Vassiliou**, J. Sa Silva, L. Wolf, O. Wellnitz, R. Eiras, G. Hackenbroich, A. Klein and D. Agrawal, "Performance Control in Wireless Sensor Networks (POSTER)," in *Proc. Sixth Annual IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON 2009)*, Rome, Italy, 22-25 June 2009.
- C.34. **V. Vassiliou**, J. Pallares, J. Gonçalves, P. Van Der Kreeft, N. Ramati, "Context-aware Media Delivery Architecture," in *Proc. ICT Mobile Summit 2009, Santander, Spain, June 2009*
- C.33. C. Christophorou, A. Pitsillides and **V. Vassiliou**, "An Enhanced Radio Resource Allocation Approach for Efficient MBMS Service Provision in UTRAN," in *Proc. 19th Annual International Symposium on Personal Indoor and Mobile Radio Communications (PIMRC2008)*, Cannes, France, September 2008.
- C.32. A. Panayides, C. Christophorou, J. Antoniou, A. Pitsillides, **V. Vassiliou**, "Power Counting for Optimized Capacity in MBMS Enabled UTRAN," in *Proc. 19th IEEE Symposium on Computers and Communications (ISCC'08)*, Marrakech, Morocco, July 6 - 9, 2008.
- C.31. A. Xeros, M. Andreou, M. Lestas, G. Papageorgiou, **V. Vassiliou**, A. Pitsillides, "Time Constrained Message Delivery Probability in VANETS," in *Proc. 4th Workshop on Vehicle Communications (V2VCOM 2008)*, Eindhoven, Netherlands, June 3, 2008.
- C.30. M. Hadjiona, C. Georgiou, M. Papa and **V. Vassiliou**, "A Hybrid Fault-Tolerant Algorithm for MPLS Networks," in *Proc. 6th International Conference on Wired/Wireless Internet Communications (WWIC 2008)*, Tampere, Finland, May 28-30, 2008
- C.29. C. Sergiou, **V. Vassiliou**, A. Pitsillides, "Reliable Data Transmission in Event-based Sensor Networks during Overload Situation," in *Proc. 2nd International Workshop on Performance Control in Wireless Sensor Networks (PWSN 2007)*, Austin, Texas, October 23, 2007.
- C.28. P. Antoniou, **V. Vassiliou**, A. Pitsillides, "ADIVIS: A Novel Adaptive Algorithm for Video Streaming over the Internet," in *Proc. 18th Annual International Symposium on Personal Indoor and Mobile Radio Communications (PIMRC2007)*, Athens, Greece, September 2007

- C.27. P. Antoniou, A. Pitsillides, **V. Vassiliou**, "Adaptive Feedback Algorithm for Internet Video Streaming based on Fuzzy Rate Control," in *Proc. 12th IEEE Symposium on Computers and Communications (ISCC'07)*, July 1-4 2007, Aveiro, Portugal
- C.26. **V. Vassiliou** and Z. Zinonos, "An Experimental Analysis of the Mobile IPv6 Handover Latency Components," in *Proc. 1st ERCIM Workshop on eMobility (in conjunction with WWIC2007)*, Coimbra, Portugal, May 21, 2007.
- C.25. P. Antoniou, **V. Vassiliou**, A. Pitsillides, "Delivering Adaptive Scalable Video over the Wireless Internet," in *Proc. 1st ERCIM Workshop on eMobility (in conjunction with WWIC2007)*, Coimbra, Portugal, May 21, 2007.
- C.24. M. Neophytou, K. Stavrou, **V. Vassiliou** and A. Pitsillides, "The Importance of Adaptive Applications in Mobile Wireless Networks," in *Proc. Symposium on QoS in Wireless Multimedia Networks, part of the 2006 International Conference on Software, Telecommunications and Computer Networks (SoftCom 2006)*, Split - Dubrovnik, Croatia, September 29-October 1, 2006
- C.23. M. Hadjiona, C. Georgiou and **V. Vassiliou**, "A Hybrid Fault-Tolerant Algorithm for MPLS Networks," in *Proc. 2006 International Conference on Software, Telecommunications and Computer Networks (SoftCom 2006)*, Split - Dubrovnik, Croatia, September 29-October 1, 2006
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