

# Vasos VASSILIOU • Associate Professor • University of Cyprus

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## Work Experience

2019-now	Associate Professor, Department of Computer Science, University of Cyprus Director of Networks Research Laboratory
2017-now	Founding Academic Member, CYENS Centre of Excellence, Nicosia, CY Research Group Leader, Smart Networked Systems Multidisciplinary Research Group
2016-now	Member of Board of Directors, Cyprus Research and Academic Network (CYNET) (appointed by the UCY Senate)
2011-2019	Assistant Professor, Department of Computer Science, University of Cyprus
2014-2017	Co-Founder and Chief Scientific Officer, UBINEC Ltd, Cyprus
2013-2016	Adjunct Faculty, Information and Communication Systems Program and Wireless Communications Systems Program, Open University of Cyprus
2012-2014	Member of Advisory Board of the Office of the Commissioner for Electronic Communications and Postal Regulation (OCECPR) of Cyprus (Appointed by the Council of Ministers of the Republic of Cyprus)
2005-2011	Lecturer, Department of Computer Science, University of Cyprus
2004-2005	Visiting Lecturer, Department of Computer Science, University of Cyprus
2003-2004	Adjunct Professor, Department of Computer Science, University of Cyprus
2002-2004	Assistant Professor, Department of Computer Science, Intercollege
1999-2002	Graduate Research Assistant, Georgia Institute of Technology, Atlanta, GA, USA
1998-1999	RF Engineer (Co-Op), BellSouth Mobility, Atlanta, GA, USA
1998	Firmware Engineer (Co-Op), Nortel Networks, Alpharetta, GA, USA
1998	Graduate Teaching Assistant, Georgia Institute of Technology, Atlanta, GA, USA
1993-1995	First Lieutenant, Army Corps of Engineers, Cyprus National Guard

## Education

1999-2002	Ph.D., Department of Electrical and Computer Engineering, Georgia Inst. of Technology, GA, USA
1997-1999	M.Sc., Department of Electrical and Computer Engineering, Georgia Inst. of Technology, GA, USA
1995-1997	B.Sc., Department of Electrical and Computer Engineering, University of South Florida, FL, USA
1990-1993	HND, Electrical Engineering, Higher Technical Institute, Nicosia, CY

## Professional Memberships

- Senior Member, Institute of Electrical and Electronics Engineers (IEEE), since April 2019; Member 2002-2019, Student Member 1997-2002.
- Senior Member, Association for Computing Machinery (ACM), since June 2019; Member 2002-2019; Student Member 1997-2002.
- 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 2013-2023

## Professional Service (selected)

- Guest Editor of Special Issue on “Distributed Machine Learning and Federated Learning for network optimization towards 6G”, Electronics Journal, MDPI (2022)
- Guest Editor of Sustainable Computing: Informatics and Systems (SUSCOM), Elsevier (2021)
- Associate Editor of Computers Journal, MDPI, (2020)
- Guest Editor for Special Issue “Responsible Smart Information Systems”, American Journal of Networks and Communications, Science Publishing Group.
- Guest Editor for Special Issue "Machine Learning for Intelligent Wireless Communications and Networking", Annals of Telecommunications, Springer.
- Associate Editor of the Journal of Computer Communications, Elsevier (since 2018)
- Associate Editor of the Journal of Telecommunication Systems, Modeling, Analysis, Design and Management, Springer (since 2006)
- Steering Committee Member, Mediterranean Communications Networking Conference (MED-COM-NET), Since 2019.
- General Chair, The 24th International Federation for Information Processing (IFIP) Networking 2025 Conference (IFIP-NETWORKING 2025), June 2025, Cyprus

- Workshop Co-Chair, Workshop on Intelligent Systems for IoT (ISIoT 2024), April/May 2024, Abu Dhabi, UAE. (in conjunction with DCOSS '24)
- General Vice-Chair, The 20th International Wireless Communications & Mobile Computing Conference (IWCMC 2024), 7–31 May 2024, Ayia Napa, Cyprus
- Workshop Co-Chair, Workshop on Intelligent Systems for IoT (ISIoT 2023), June 2023, Pafos, Cyprus. (in conjunction with DCOSS '23)
- General Co-Chair, IEEE 19th International Conference on Distributed Computing in Sensor Systems (DCOSS 2023), 19-21 June 2023, Paphos, Cyprus.
- General Co-Chair, 20<sup>th</sup> Mediterranean Communication and Computer Networking Conference (MedComNet 2022), June 2022, Paphos, Cyprus.
- Workshop Co-Chair, 3rd Workshop on Intelligent Systems for IoT (ISIoT 2021), May 2021, Online. (in conjunction with DCOSS '21)

### **Administrative Activities (selected)**

- Member of the Senate Committee on “Information Systems” (Sept. 2019–May 2023, May 2023-May 2025)
- Chair of the Postgraduate Studies Committee of the Department of Computer Science (Nov. 2019 – Sep 2023)
- Member of the Council of the Graduate School of the University of Cyprus (since Nov. 2019 – Sep 2023)
- Member of the Postgraduate Studies Committee of the Department of Computer Science (Nov. 2012 – Nov. 2019)
- Vice Chairman of the BoD of CyNet). Appointed by the Senate of the University of Cyprus (since Feb. 2021)
- Chairman of the BoD of CyNet). Appointed by the Senate of the University of Cyprus (Sep. 2016 – Feb 2021)
- Member of the Senate Committee on “Campus Organization and Building Development (EOKTA)” (Sept. 2017 - June 2019)
- Member of the Board of Directors of the Centre for Teaching & Learning (April 2017 – July 2018)
- Member of the Senate Committee on “International Relations” (April 2016 - June 2019)
- Member of the Council of the School of Pure and Applied Sciences (Jan. 2013 – Jan. 2015)
- Member of the Senate Committee on “Public Relations” (April 2013 – April 2015)
- Member of the Senate Committee on “University and the Society” (April 2013 - April 2015)
- Member of the “Student Disciplinary Committee” of the Senate (March 2011 - March 2013)
- Member of the Office for Alumni Affairs (2008 - 2012)

### **Technical Consulting (selected)**

- Mentor of Junior Achievement JA StartUP Program (2021)
- Member of External Advisory Board of ENTRANCE Erasmus+ Key Action 2 Strategic Partnerships 2020 Programme (Nov. 2020 – Oct. 2022)
- Mentor of Cyprus Entrepreneurship Competition (CyEC) Program (Fall 2020)
- Juror of EUvsVirus Hackathon, Health & Life Domain (April 2020)
- 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)
- Technical Expert for the evaluation of proposals submitted to the Ministry of Commerce, Cyprus under the program "Support of Business Innovation" (2016-2017, 2012-2013)
- EUROSTARS Technical Expert (January 2013 - ), evaluated proposals in the 4<sup>th</sup> (10/2015), 5<sup>th</sup> (10/2016) and 10<sup>th</sup> (2/2021) 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)
- Member of External Advisory Board of SCIENT “A European University-Business Alliance aiming to foster young SCIENTists’ ENTrepreneurial spirit” ERASMUS+ KA2 Strategic Partnerships for Higher Education programme. (Jan. 2015 – Dec 2017)
- 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)

### Awards and Distinctions

- 3<sup>rd</sup> Prize in Cyprus Entrepreneurship Competition 2021 for the Business Idea: IDS4IoT Cybersecurity Solution for the Internet of Things, December 15, 2021, Nicosia, Cyprus.
- Best Paper Award for paper "*Social-Aware Clustering for D2D Multicast Content Sharing in 5G Networks*" at Global Information Infrastructure Networking Symposium (GIIS 2020), October 28-30, 2020, Tunis, Tunisia
- 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.

### Keynotes, Panels, and Invited Talks (selected)

Invited Talk on "Creating Immersive and Accessible Experiences in the Metaverse", at the 5G and the Metaverse conference, 4 April 2023, Patras, Greece.

Invited Talk on "Metaverse and Smart Cities: A Realist's View", Reflect Festival, 21 October 2022, Limassol,

Invited Panelist, to the Cyprus Forum and Tech Island side event "Connecting the Dots", September 2022, Limassol, Cyprus.

Invited Talk on "Internet of Things Challenges and Opportunities," Graduate Seminar, MSc Information Systems and Digital Innovation, Neapolis University Paphos, November 25, 2021, Cyprus.

Invited Talk on "Enabling Reliable and Secure Communication between Things in 5G and beyond Networks," Winter School on "Emerging Technologies for 5G and IoT", TeamUP5G MSCA ITN, December 14, 2020, Thessaloniki, Greece.

Invited Talk on "The use of IoT and Data Science in Food Management and Food Waste," EIT Climate-KIC Young Innovators 2020, December 5, 2020, Cyprus.

Invited Talk on "Network Forensics for the Internet of Things," CYNET-CSIRT Malware Analysis and Digital Forensics Cybersecurity Event, November 26, 2020, Nicosia, Cyprus.

Invited Talk on "Internet of Things Challenges and Opportunities," Graduate Seminar, MSc Information Systems and Digital Innovation, Neapolis University Paphos, November 4, 2020, Cyprus.

Keynote Talk on "Performance Control, Reliability and Security in Wireless Sensor Networks and the Internet of Things," IEEE International Workshop on Computer-Aided Modeling Analysis and Design of Communication Links and Networks, (CAMAD2019), 13 September 2019, Limassol, Cyprus.

Invited Talk on "What is a Smart City?" Workshop on Smart Cities, July 13, 2019, Athienou, Cyprus.

Invited Talk on "Smart Technologies for Smart Cities," Climathon 2018, October 26, 2018, Nicosia, Cyprus.

Invited Talk on "Blockchain-based Secure Decentralization for the Internet-of-Things," 1<sup>st</sup> Decentralized Conference, November 2, 2017, Limassol, Cyprus.

Invited Talk on "From Academic to Entrepreneur – It all starts from an idea," RPF Entrepreneurship Workshop – June, 2016, Nicosia, Cyprus.

Invited Talk on "Developing solutions for Smart Networked Environments," Climate Launchpad BootCamp 2015, Kalopanagiotis, Cyprus.

### Research Projects (selected)

- **01/23-12/26 - PI, METACITIES** - MetaCities Excellence Hub in South-Eastern Europe. (HORIZON-WIDERA-2022 ACCESS-04-01)
- **01/23-12/25 – PI, ADROIT6G** Distributed Artificial Intelligence-driven open and programmable architecture for 6G networks (HORIZON-JU-SNS-2022-STREAM-B-01-01)
- **11/17-04/25 – Co-PI, RISE** - Centre of Excellence on Interactive Media, Smart Systems and Emerging Technologies (H2020, Widening Participation Teaming Project, Grant Agreement 739578)
- **10/24-10/25 – Co-PI, CYBERSAFETY V**– Safer Internet for Kids continuation
- **09/22-09/24 – Co-PI, CYBERSAFETY IV**– Safer Internet for Kids continuation

- **01/21–09/22 - Co-PI YBERSAFETY III**– Safer Internet for Kids continuation (CEF TELECOM, DSI: Safer Internet, Grant Agreement 2020-CY-IA-0069)
- **09/18–05/21- PI, Establishment of Cypriot Academic CSIRT** (CEF TELECOM, DSI: Cyber Security, Grant Agreement 2017-CY-IA-0121)
- **01/19–12/20 – Co-PI, CYBERSAFETY II– Safer Internet for Kids** continuation (CEF TELECOM, DSI: Safer Internet, Grant Agreement 2018-CY-IA-0012)
- **12/17–11/20 – PI, 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)
- **09/08–02/12 – PI, GINSENG** - Performance Control in Wireless Sensor Networks, (FP7 ICT, 2008-1011, Grant Agreement 224282)
- **03/08–03/10 – Co-PI, C-CAST** - Context Casting providing an end-to-end context-aware communication framework (FP7 ICT, 2008-2010, Grant agreement 216462).
- **10/23–9/25 – PI, EE-REGISTRY:** Automation of Company Registration and Number Assignment Processes, (Electronic Communications Commissioner's Office)
- **02/23–01/25 – PI, MITIS:** Extension of the Information and Communication Technologies Observatory Platform (Electronic Communications Commissioner's Office)
- **01/23–04/23 – PI, ANT-PANEL:** Platform for the Collection and Statistical Analysis of Broadband Connectivity Measurements, (Electronic Communications Commissioner's Office)
- **01/23–04/23 – PI, EE-BI:** Consultation on the Design of a Big-Data Business Intelligence Solution, (Electronic Communications Commissioner's Office)
- **12/21–12/23 – PI, CTIP:** Cyber-Threat Intelligence Platform, (Digital Security Authority)
- **02/21–01/23 – PI, ICTOU:** Information and Communication Technologies Observatory Update (Electronic Communications Commissioner's Office)
- **04/20–03/22 – PI, IDS4IoT:** Computational and Artificial Intelligence Solutions for Intrusion Detection in Internet of Things (UCY Post Doctoral ONISILOS Grant to Dr. Christiana Ioannou)
- **05/19–04/21 – PI, SMIDS:** Detecting Malicious Interventions in Wireless Sensor Networks and the Internet of Things (UCY Internal Grant)
- **01/09–02/11 – Co-PI, MIND2C:** Mimicking Nature for Designing Robust Congestion Control Mechanisms in Self-Organized Autonomous Decentralized Networks (Cyprus Research Promotion Foundation – TΠE/ETIKOI/0308(BE)/03)
- **10/05–03/09 – PI, NET6:** Next Generation IPv6 Research Network. (Cyprus Research Promotion Foundation – EPYΔI/0205/06)
- **10/04–10/06 – Co-PI, BINTEO:** VIDEO Distribution in New-Generation Mobile Cellular Networks (GPRS/UMTS) (Cyprus Research Promotion Foundation – ΠAHP0/0104/12)
- **10/04–10/06 – Co-PI, ADAVIDEO:** Adaptive Methods for the Transmission of Video Streams in Wireless Networks, University of Cyprus, Small Research Projects

**Publications (selected)** - Google Scholar Citations: 2,615; h-index: 26; i10-index: 64 | Total Journals: 39; Peer-reviewed Conference Proceedings: 111; Editorials: 12; Book Chapters: 5; Combined Publications: over 150

- N. Temene, A. Naoum, C. Sergiou, C. Georgiou, V. Vassiliou, "A fault tolerant node placement algorithm for WSNs and IoT networks," *Computer Networks*, Volume 254, 2024, 110835, <https://doi.org/10.1016/j.comnet.2024.110835>.
- I. Ioannou *et al.*, "DeepRISBeam: Deep Learning-Based RIS Beam Management for Radio Channel Optimization," in *IEEE Access*, vol. 12, pp. 81646-81681, 2024, doi: 10.1109/ACCESS.2024.3411929
- I. Ioannou, S. Javaid, C. Christophorou, V. Vassiliou, A. Pitsillides and Y. Tan, "A Distributed AI Framework for Nano-Grid Power Management and Control," in *IEEE Access*, vol. 12, pp. 43350-43377, 2024, doi: 10.1109/ACCESS.2024.3377926.
- T. Ahmad *et al.*, "A Novel Self-Calibrated UWB Based Indoor Localization Systems for Context-Aware Applications," in *IEEE Transactions on Consumer Electronics*, doi: 10.1109/TCE.2024.3369193.
- I. Ioannou, P. Nagaradjane, P. Angin, P. Balasubramanian, K. Jeyagopal Kavitha, P.i Murugan, V. Vassiliou, "GEMPLIDS-MIOT: A Green Effective Machine Learning Intrusion Detection System based on Federated Learning for Medical IoT network security hardening," *Computer Communications*, Vol. 218, 2024, Pages 209-239, <https://doi.org/10.1016/j.comcom.2024.02.023>.
- S. V. J. Rani *et al.*, "A Novel Deep Hierarchical Machine Learning Approach for Identification of Known and Unknown Multiple Security Attacks in a D2D Communications Network," in *IEEE Access*, vol. 11, pp. 95161-95194, 2023, doi: 10.1109/ACCESS.2023.3308036.
- W. A. Aziz, I. Ioannou, M. Lestas, H. K. Qureshi, A. Iqbal and V. Vassiliou, "Content-Aware Network Traffic Prediction Framework for Quality of Service-Aware Dynamic Network Resource Management," in *IEEE Access*, vol. 11, pp. 99716-99733, 2023, doi: 10.1109/ACCESS.2023.3309002.

- Abdullah Bin Masood, Ammar Hasan, Vasos Vassiliou, and Marios Lestas, "A Blockchain-Based Data-Driven Fault-Tolerant Control System for Smart Factories in Industry 4.0" *Elsevier Computer Communications Journal, Volume 204, 2023, pp. 158-171*, <https://doi.org/10.1016/j.comcom.2023.03.017>.
- Waqar Ali Aziz, Vasos Vassiliou, Taqwa Saeed, Andreas Pitsillides, Marios Lestas, "On the use of Intelligent Metasurfaces in Data centers," *ITU Journal on Future and Evolving Technologies, Volume 4, Issue 1, March 2023, pp. 102-115*, <https://doi.org/10.52953/WAXE8722>.
- N. Ashraf, T. Saeed, H. Taghvace, S. Abadal, V. Vassiliou, C. Liaskos, A. Pitsillides, and M. Lestas, "Intelligent Beam Steering for Wireless Communication Using Programmable Metasurfaces" in *IEEE Transactions on Intelligent Transportation Systems*, vol. 24, no. 5, pp. 4848-4861, May 2023, doi: 10.1109/TITS.2023.3241214.
- S.V. Jansi Rani, I. Ioannou, P. Nagaradjane, C. Christophorou, V. Vassiliou, S. Charan, S. Prakash, N. Parekh, and A. Pitsillides, "Detection of DDoS attacks in D2D communications using machine learning approach," *Computer Communications*, Vol. 198, 2023, Pages 32-51, <https://doi.org/10.1016/j.comcom.2022.11.013>.
- R. Kishore, I. Ioannou, C. Christophorou, N. Prabagarane, V. Vassiliou, S. Vignesh, H. Vinayak, S. Venkatesh, and A. Pitsillides, "A Security Protocol for D2D Communications in 5G Networks using Elliptic Curve Cryptography", *International Journal of Information Security*, Vol 11, pp. 1389–1408, October 2022, <https://doi.org/10.1007/s10207-022-00620-8>
- I. Ioannou, C. Christophorou, V. Vassiliou, M. Lestas and A. Pitsillides, "Dynamic D2D Communication in 5G/6G using a Distributed AI Framework," in *IEEE Access*, vol. 10, pp. 62772-62799, 2022, doi: 10.1109/ACCESS.2022.3182388.
- I. Ioannou, C. Christophorou, V. Vassiliou, and A. Pitsillides, "A novel Distributed AI framework with ML for D2D communication in 5G/6G networks," *Elsevier Computer Networks Journal*, vol. 211, 2022, <https://doi.org/10.1016/j.comnet.2022.108987>.
- I. Ioannou, C. Christophorou, V. Vassiliou, and A. Pitsillides, "A Distributed AI/ML Framework for D2D Transmission Mode Selection in 5G and Beyond," *Elsevier Computer Networks Journal*, vol. 210, 2022, <https://doi.org/10.1016/j.comnet.2022.108964>
- N. Temene, C. Sergiou, C. Ioannou, C. Georgiou, and V. Vassiliou, "A Node Placement Algorithm Utilizing Mobile Nodes in WSN and IoT Networks," *Telecom Journal, Special Issue on IoT Applications and Industry 4.0*, Telecom 2022, 3, 17-51. <https://doi.org/10.3390/telecom3010002>
- N. Temene, C. Sergiou, C. Georgiou, and V. Vassiliou, "A Survey on Mobility in Wireless Sensor Networks," *Elsevier Ad Hoc Networks Journal*, Volume 125, 2022, <https://doi.org/10.1016/j.adhoc.2021.102726>.
- P. Rahimi, C. Chrysostomou, H. Bin Pervaiz, V. Vassiliou, "Joint Radio Resource Allocation and Beamforming Optimization for Industrial IoT in SDN-based Virtual Fog-RAN 5G-and-Beyond Wireless Environments," in *IEEE Transactions on Industrial Informatics*, vol. 18, no. 6, pp. 4198-4209, June 2022, doi: 10.1109/TII.2021.3126813.
- C. Ioannou, and V. Vassiliou, "Network Attack Classification in IoT Using Support Vector Machines," *Journal of Sensor and Actuator Networks*, 10(3):58, Sept. 2021, <https://doi.org/10.3390/jsan10030058>
- C. Charilaou, S. Lavdas, A. Khalifeh, V. Vassiliou, and Z. Zinonos. Firmware Update Using Multiple Gateways in LoRaWAN Networks. *Sensors*, 21(19):6488, Sept. 2021, <https://doi.org/10.3390/s21196488>.
- I. Ioannou, C. Christophorou, V. Vassiliou, and A. Pitsillides, "Distributed Artificial Intelligence Solution for D2D Communication in 5G Networks," in *IEEE Systems Journal*, vol. 14, no. 3, pp. 4232-4241, Sept. 2020
- C. Ioannou and V. Vassiliou, "Security Agent Location in the Internet of Things," in *IEEE Access*, vol. 7, pp. 95844-95856, 2019.
- 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
- 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
- Z. Zinonos, C. Chysostomou, and V. Vassiliou, "Wireless Sensor Networks Mobility Management using Fuzzy Logic," *Elsevier Ad Hoc Networks Journal*, Volume 16, May 2014, p 70-87.
- 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.