

# Dr. Nikolaos I. Miridakis

## PERSONAL DETAILS

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**Birth Date** 5 September 1982  
**Birth Place** Cholargos, Attica  
**Work Address** Dept. Informatics and Computer Engineering, University of West Attica, Greece  
**E-mail** nikozm@uniwa.gr  
**Personal Webpage** <https://sites.google.com/site/nikolaosmiridakis>

## ACADEMIC POSITIONS

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ASSISTANT PROFESSOR 11/09/2020 – TODAY

Dept. Informatics and Computer Engineering, University of West Attica, Greece.  
Area of expertise: Wireless and Mobile Communication Systems.

**Courses (undergraduate):** Advanced networking technologies; Digital communications; Digital signal processing; Internet of Things; Mobile communication networks.

**Courses (postgraduate):** Mobile communication networks and applications; Sensor networks and Internet of Things.

VISITING PROFESSOR 13/12/2018 – TODAY

University of Piraeus, Dept. Informatics. Postgraduate course ‘Digital Culture, Smart Cities, IoT, and Advances Digital Technologies - M2M Communications’.

PRIOR EXPERIENCE 2007 – 2020

VISITING PROFESSOR (2014 – 2015) & (2016 – 2017)

Kingston University and Piraeus University of Applied Sciences. Postgraduate course ‘Wireless Communications and Networks’ of the M.Sc. program ‘Networking and Data Communications’.

TEACHING FELLOW 2018 – 2020

Dept. Electrical and Electronic Engineering, University of West Attica.

**Laboratory courses:** Wireless Radio Propagation; Introduction to Telecommunications; Antennas; Wide-band Transmission Technologies; Communication Systems and Networks; Stochastic Signals; Automatic Control Systems II; Advanced Automatic Control Systems.

TEACHING FELLOW 2007 – 2018

Dept. Computer Systems Engineering, Piraeus University of Applied Sciences.

**Laboratory courses:** Microelectronics; Digital Communications; Digital Signal Processing; Signals and Systems; Automatic Control Systems; Circuit Theory; Modern Design (via Autocad and Eagle software packages); Project Management.

## THESES SUPERVISION

To date, he has been the main supervisor of one (1) undergraduate thesis, one (1) postgraduate thesis, and a co-supervisor of two (2) postgraduate dissertations and six (6) undergraduate theses.

## RESEARCH ACTIVITY

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## RESEARCH INTERESTS

His research activity lies in the general field of wireless communication networks and signal processing with a particular emphasis on wireless wide-band networks, next-generation networks, wireless sensor networks, free-space optics, wireless cooperative communications.

In particular, his current research interest is focused on communication quality optimization, radio resource allocation and management, power control, admission control, interference management in wireless telecommunication systems, cooperative communication systems, cognitive radio communication, hardware impairments at the wireless transceiver, wireless channel fading modeling, and statistical signal processing.

## DISTINGUISHED RESEARCH ASSOCIATE

FEB. 2019 – FEB. 2022

Distinguished Research Associate, Institute of Physical Internet, School of Electrical and Information Engineering, Jinan University, China.

Role: conduct of research, participation in national and international research projects, papers, and patents.

## RESEARCH (FUNDED) PROJECTS

- **NSFC, Title: Research on Energy Harvesting and Security Communication Based on Power Convergence Metasurface**  
Duration: 01/01/2021 – 31/12/2024

Role: Senior Researcher. Budget: 560K RMB ( $\approx$  72K EUR).

- **H2020, Project Title: A holistic and Scalable Solution for Research, Innovation and Education in Energy Transition.**  
Duration: 01/05/2019 – 30/04/2021

Role: Senior Researcher. Budget: 1,99 M EUR).

- **NSRF 2014-2020, University of Western Macedonia, Greece. Title: A 5G Vehicular Network Architecture through Edge Computing for Novel Services.**  
Principal Investigator: Dr. Angelos Michalas.

Duration: 01/03/2020 – 30/05/2021 Role: Senior Researcher.

- **Guangdong Science and Technology Plan Project, Title: Key Optical Wireless Converged Technologies for Distributed 5G Systems**  
Duration: 01/01/2019 – 31/12/2021

Role: Senior Researcher. Fund Source: Guangdong Province, China. Coordinator: Sun Yat-Sen University, Budget: 30M RMB ( $\approx$  3.8M EUR).

- **Service Digitalization for the Region of Western Macedonia**  
Duration: 13/02/2017 – 13/08/2017

Senior Researcher. Role: Data Analysis and Method Development for Service Digitalization for the Region of Western Macedonia. This project was funded by the Region of Western Macedonia.

Principal Investigator: Dr. Angelos Michalas.

- **Energy Harvesting and Information Transfer in Cooperative Cognitive Radio Networks**  
Duration: 01/02/2016– 31/01/2017

Senior Researcher. Role: Lead post-doctoral research. This project was funded by the Nazarbayev University, Kazakhstan.

Principal Investigator: Dr. Theodoros A. Tsiftsis.

- **Quality of Service for 4G Wireless Networks**  
Duration: 01/10/2013 – 31/12/2014

Senior Researcher. Role: Lead post-doctoral research.

Principal Investigator: Dr. Angelos Michalas.

- **S-PORT – A Safe, Automated, and Cooperative Environment for the Method Development of Risk Assessment, Creation of Business Continuity Plan and Disaster Recovery Centers for Port Information Systems**  
Duration: 24/01/2011 – 23/04/2012

Senior Researcher. Role: ‘Current status and user requirements, Cooperative tool analysis - Basic S-PORT system design, Interactive tools and services development, Integration of individual systems and tools, Preparatory pilot phase, Demonstration, Evaluation and Optimization’.

Principal Investigator: Dr. Despoina Polemi.

## INTERNATIONAL DISTINCTIONS

- Best Editor Award (IEEE Communications Letters), 2021.
- IEEE Senior Member (since April of 2019).
- Exemplary Reviewer by the scientific journals IEEE Transactions on Communications, IEEE Transactions on Vehicular Technology, and Elsevier Physical Communication in 2017.

## CITATIONS OF PUBLISHED WORK (10 DEC. 2022)

- Google Scholar
  - 987 citations with h-index  $h = 15$
- Scopus
  - 746 citations with h-index  $h = 12$

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## SCIENTIFIC AND PROFESSIONAL POSITIONS

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### EDITORIAL ACTIVITIES FOR INTERNATIONAL SCIENTIFIC JOURNALS

- IEEE Transactions on Communications (Jan. 2022 – today)
- IEEE Communications Letters, Editor (Jan. 2019 – June 2022).

### REVIEWER FOR INTERNATIONAL SCIENTIFIC JOURNALS

Since 2010, he has reviewed over 150 articles for the following prestigious international scientific Journals: IEEE Transactions on Communications, IEEE Journal on Selected Areas in Communications, IEEE Journal of Selected Topics in Signal Processing, IEEE Transactions on Wireless Communications, IEEE Transactions of Information Theory, IEEE Transactions on Vehicular Technology, IEEE Transactions on Signal Processing, OSA/IEEE Journal of Lightwave Technology, IEEE Signal Processing Letters, IEEE Communications Letters, IEEE Wireless Communications Letters, IET Communications, IET Electronics Letters, IET Signal Processing, EURASIP Journal on Wireless Communications and Networking, Wireless Communications and Mobile Computing, Wireless Personal Communications.

### INTERNATIONAL CONFERENCE PROCEEDINGS

Since 2010, he has served either as a member of technical program committee (TPC) and/or as a reviewer at the most prestigious IEEE conferences regarding telecommunications: ICC, GLOBECOM, WCNC, PIMRC, VTC Spring, VTC Fall.

### PROFESSIONAL POSITIONS AND/OR DEVELOPMENT (FUNDED) PROJECTS

#### **Program “Student Internship for the University of West Attica”**

**Duration: (01/11/2021 – today)**

Role: Principal Investigator with respect to the Department of Informatics and Computer Engineering.

#### **Development, Installation and Management of the Measurement Network for Non-Ionizing Radiation from Antennas of Mobile Telephony**

**Duration: (13/02/2017 – 30/06/2017) & (16/10/2017 – 16/01/2018)**

Senior Researcher. Role: ‘Installation of new measurement stations, Additional measurements, Development of web-based software, Scientific support for telecommunication issues’.

Principal Investigator: Dr. Christos Douligeris.

#### **External Evaluation of National Research Project: ‘Heraclitus II - Key framework for doctoral research at the National Technical University of Athens’**

**Duration: (01/09/2014 – 30/11/2014) & (01/09/2015 – 30/10/2015)**

External Evaluator. Role: Deliverable of the middle and final evaluation report.

#### **Hellenic Army Research Center**

**Duration: 12/10/2012 – 12/6/2013**

During his military service, he served at the Hellenic Army Research Center, where he participated in the management, upgrading and support of the Wired Classified Network at the Army General Staff. In addition, he received the honorary distinction of the Sergeant military rank for his service.

**HERMIS - Provision of measurement, recording, control and publication services of the measurement results of electromagnetic radiation in the environment****Duration: 10/12/2013 – today**

Senior Researcher. Role: ‘Participating in measurements, Writing technical reports’.

Principal Investigator: Dr. Christos Douligeris.

**Measurement of electromagnetic radiation in the environment and, in general, provision of services for the recording of the measurements, their control and the publication of derived results****Duration: 15/09/2011 – 14/09/2013**

Senior Researcher. Role: ‘Project Supervision, Participation in Measurements, Writing Reports, Writing Deliverables’.

Principal Investigator: Dr. Christos Douligeris.

**Provision of services for the measurement, recording, control and publication of measurement results of electromagnetic radiation in the environment****Duration: 01/01/2010 – 14/09/2011**

Senior Researcher. Role: ‘Project Supervision, Participation in Measurement, Writing Reports, Writing Deliverables’.

Principal Investigator: Dr. Christos Douligeris.

**Technical Networking Support****Duration: 08/06/2007 – 10/10/2007**

Technical Staff. Role: Technical networking support at the technical Dept. of telecommunications service provider Tellas S.A.

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## PUBLICATIONS

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### BOOKS

- B3** Anastasia Veloni, **Nikolaos I. Miridakis**, and Eryso Boukouvala, ‘*Digital and Statistical Signal Processing*,’ CRC Press, 2018.
- B2** Anastasia Veloni and **Nikolaos I. Miridakis**, ‘*Digital Signal Processing (in Greek)*,’ Tziola Publications, 2018.
- B1** Anastasia Veloni and **Nikolaos I. Miridakis**, ‘*Digital Control Systems: Theoretical Problems and Simulation Tools*,’ CRC Press, 2017.

### BOOK CHAPTERS

- CB1** **Nikolaos I. Miridakis** and Dimitrios D. Vergados, ‘Successive Interference Cancellation for multi-user MIMO-OFDM ad-hoc networks: A Performance-Complexity Tradeoff,’ *Springer, Book Chapter, E-Business and Telecommunications Communications in Computer and Information Science*, vol. 314, 2012, pp. 519-533.

## INTERNATIONAL PEER-REVIEWED SCIENTIFIC JOURNALS

- J48 Nikolaos I. Miridakis**, Theodoros A. Tsiftsis and Rugui Yao, ‘Zero Forcing Uplink Detection through Large-Scale RIS: System Performance and Phase Shift Design,’ *IEEE Transactions on Communications*, accepted for publication, Nov. 2022.
- J47** Xudong Li, Ye Fan, Rugui Yao, Peng Wang, Nan Qi, **Nikolaos I. Miridakis**, and Theodoros A. Tsiftsis, ‘RSMA-Enabled Secure and Efficient Cognitive Satellite Terrestrial Networks,’ *IEEE Transactions on Vehicular Technology*, vol. 71, no. 11, pp. 11756-11771, Nov. 2022.
- J46** Jiahui Feng, Zheng Shi, Guanghua Yang, **Nikolaos I. Miridakis**, Shaodan Ma, and Theodoros A. Tsiftsis, ‘Outage Performance of Cross-Packet HARQ,’ *IEEE Wireless Communications Letters*, vol. 11, no. 7, pp. 1423-1427, Jul. 2022.
- J45** Xudong Li, Rugui Yao, Ye Fan, Peng Wang, Nan Qi, **Nikolaos I. Miridakis**, and Theodoros A. Tsiftsis, ‘Secure Spectrum-Energy Efficiency Tradeoff Based on Stackelberg Game in a Two-way Relay Cognitive Satellite Terrestrial Network,’ *IEEE Wireless Communications Letters*, vol. 11, no. 8, pp. 1679-1683, Aug. 2022.
- J44 Nikolaos I. Miridakis**, Zheng Shi, Theodoros A. Tsiftsis, and Guanghua Yang, ‘Extreme Age of Information for Wireless-Powered Communication Systems,’ *IEEE Wireless Communications Letters*, vol. 11, no. 4, pp. 826-830, Apr. 2022.
- J43 Nikolaos I. Miridakis**, Theodoros A. Tsiftsis, and Guanghua Yang, ‘Non-Linear Age of Information: An Energy Efficient Receiver-Centric Approach,’ *IEEE Wireless Communications Letters*, accepted for publication, Dec. 2021.
- J42 Nikolaos I. Miridakis**, Theodoros A. Tsiftsis, Guanghua Yang, Panagiotis A. Karkazis, and Helen C. Leligou, ‘Semi-Blind Multiuser Detection Under the Presence of Reconfigurable Intelligent Surfaces,’ *IEEE Wireless Communications Letters*, accepted for publication, Oct. 2021.
- J41** Theodoros A. Tsiftsis, Constantinos Valagiannopoulos, Hongwu Liu, Alexandros-Apostolos A. Boulogeorgos, and **Nikolaos I. Miridakis**, ‘Metasurface-Coated Devices: A New Paradigm for Energy-Efficient and Secure 6G Communications,’ *IEEE Vehicular Technology Magazine*, accepted for publication, Oct. 2021.
- J40** Emmanouel T. Michailidis, **Nikolaos I. Miridakis**, Angelos Michalas, Emmanouel Skondras, Dimitrios J. Vergados, and Dimitrios D. Vergados, ‘Energy Optimization in Massive MIMO UAV-Aided MEC-Enabled Vehicular Networks,’ *IEEE Access*, vol. 9, pp. 117388 - 117403, Aug. 2021.
- J39 Nikolaos I. Miridakis**, Emmanouel T. Michailidis, Angelos Michalas, Emmanouel Skondras, Dimitrios J. Vergados, and Dimitrios D. Vergados, ‘Performance of Uplink NOMA with User Mobility Under Short Packet Transmission,’ *Wireless Personal Communications*, accepted for publication, Aug. 2021.
- J38** Emmanouel Skondras, Emmanouel T. Michailidis, Angelos Michalas, Dimitrios J. Vergados, **Nikolaos I. Miridakis**, and Dimitrios D. Vergados, ‘A Network Slicing Framework for UAV-aided Vehicular Networks,’ *MDPI Drones*, Special Issue on Unmanned Aerial Vehicle-Assisted Cooperative Air and Ground Communications, Jul. 2021.
- J37** Emmanouel T. Michailidis, **Nikolaos I. Miridakis**, Angelos Michalas, Emmanouil Skondras, and Dimitrios J. Vergados, ‘Energy Optimization in Dual-RIS UAV-Aided MEC-Enabled Internet of Vehicles,’ *MDPI Sensors*, Special Issue on UAV-Based Technology for IoT, vol. 21, no. 13, Jun. 2021.
- J36** Emmanouil Skondras, Angelos Michalas, Dimitrios J. Vergados, Emmanouel T. Michailidis, **Nikolaos I. Miridakis**, and Dimitrios D. Vergados, ‘Network Slicing on 5G Vehicular Cloud Computing Systems,’ *MDPI Electronics*, Special Issue on Toward a New Era of Radio Access Technologies for 5G and Beyond, vol. 10, no. 12, Jun. 2021.

- J35 Nikolaos I. Miridakis**, Theodoros A. Tsiftsis, and Guanghua Yang, ‘Moment-based Spectrum Sensing Under Generalized Noise Channels,’ *IEEE Communications Letters*, accepted for publication, Sep. 2020.
- J34 Nikolaos I. Miridakis**, Theodoros A. Tsiftsis, and Guanghua Yang, ‘Generalized Energy Detection Under Generalized Noise Channels,’ *IEEE Wireless Communications Letters*, vol. 9, no. 12, pp. 2020-2024, Dec. 2020.
- J33** Yan Li, **Nikolaos I. Miridakis**, Theodoros A. Tsiftsis, Guanghua Yang, and Minghua Xia, ‘Air-to-Air Communications Beyond 5G: A Novel 3D CoMP Transmission Scheme,’ *IEEE Transactions on Wireless Communications*, vol. 19, no. 11, pp. 7324-7338, Nov. 2020.
- J32** Shengyao Wang, Rugui Yao, Theodoros Tsiftsis, **Nikolaos I. Miridakis**, and Nan Qi, ‘Signal Detection in Uplink Time-Varying OFDM Systems Using RNN with Bidirectional LSTM,’ *IEEE Wireless Communications Letters*, vol. 9, no. 11, pp. 1947-1951, Nov. 2020.
- J31** Nan Qi, **Nikolaos I. Miridakis**, Ming Xiao, Theodoros A. Tsiftsis, Rugui Yao, and Shi Jin, ‘Traffic-aware Two-stage Queueing Communication Networks: Queue Analysis and Energy Saving,’ *IEEE Transactions on Communications*, vol. 68, no. 8, pp. 4919 - 4932, Aug. 2020.
- J30 Nikolaos I. Miridakis**, Theodoros A. Tsiftsis and Guanghua Yang, ‘Leveraging on the Impact of Imperfect Channel Estimation for MIMO Relaying Systems,’ *IEEE Access*, vol. 7, pp. 127809 - 127815, Sep. 2019.
- J29** Rugui Yao, Yuxin Zhang, Shengyao Wang, Nan Qi, **Nikolaos I. Miridakis**, and Theodoros A. Tsiftsis, ‘Deep Neural Network Assisted Approach for Antenna Selection in Untrusted Relay Networks,’ *IEEE Wireless Communications Letters*, vol. 8, no. 6, pp. 1644 - 1647, Dec. 2019.
- J28 Nikolaos I. Miridakis**, Theodoros A. Tsiftsis, and Hui-Ming Wang, ‘Zero Forcing Detection For Short Packet Transmission Under Channel Estimation Errors,’ *IEEE Transactions on Vehicular Technology*, vol. 68, no. 7, pp. 7164 - 7168, Apr. 2019.
- J27 Nikolaos I. Miridakis** and Theodoros A. Tsiftsis, ‘A New Interweave Cognitive Radio Scheme for Out-band Energy Harvesting Systems,’ *IEEE Access*, vol. 6, pp. 72225 - 72232, Nov. 2018.
- J26 Nikolaos I. Miridakis**, Theodoros A. Tsiftsis, and George C. Alexandropoulos, ‘MIMO Underlay Cognitive Radio: Optimized Power Allocation, Effective Number of Transmit Antennas and Harvest-Transmit Tradeoff,’ *IEEE Transactions on Green Communications and Networking*, vol. 2, no. 4, pp. 1101 - 1114, Dec. 2018.
- J25 Nikolaos I. Miridakis**, Dimitrios. D. Vergados, and Angelos Michalas, ‘All-Optical FSO Relaying Under Mixture-Gamma Fading Channels and Pointing Errors,’ *Wireless Personal Communications*, vol. 104, pp. 771-781, Oct. 2018.
- J24 Nikolaos I. Miridakis**, Theodoros A. Tsiftsis, Dimitrios. D. Vergados, and Angelos Michalas, ‘All Cognitive MIMO: A New Multiuser Detection Approach with Different Priorities,’ *IEEE Transactions on Wireless Communications*, vol. 17, no. 8, pp. 5148 - 5161, Aug. 2018.
- J23 Nikolaos I. Miridakis**, Minghua Xia and Theodoros A. Tsiftsis, ‘Optimal Power Allocation and Active Interference Mitigation for Spatial Multiplexed MIMO Cognitive Systems,’ *IEEE Transactions on Vehicular Technology*, vol. 67, no. 4, pp. 3349 - 3360, Apr. 2018.
- J22 Nikolaos I. Miridakis** and Theodoros A. Tsiftsis, ‘Zero-Forcing Successive Decoding under Nakagami- $m$  Fading Channels,’ *Wireless Personal Communications*, vol. 99, no. 1, pp. 273 - 282, Mar. 2018.
- J21** Alireza Rahmati, Kaamran Raahemifar, Alagan Anpalagan, Theodoros A. Tsiftsis, Paeiz Azmi, and **Nikolaos I. Miridakis**, ‘Superposition Modulation based Cooperation for Oversampled OFDM Signals,’ *IEEE Transactions on Communications*, vol. 65, no. 11, pp. 4791 - 4802, Nov. 2017.

- J20 Nikolaos I. Miridakis**, Dimitrios. D. Vergados and Angelos Michalas, ‘Performance of Maximum-Ratio Combining-Enabled Heterodyne Detection for Free-Space Optical Systems Under Mixture-Gamma Fading Channels and Pointing Errors,’ *IET Electronics Letters*, vol. 53, no. 16, pp. 1156 - 1158, Aug. 2017.
- J19 Nikolaos I. Miridakis**, Theodoros A. Tsiftsis and Corbett Rowell, ‘Distributed Spatial Multiplexing Systems with Hardware Impairments and Imperfect Channel Estimation under Rank-1 Rician Fading Channels,’ *IEEE Transactions on Vehicular Technology*, vol. 66, no. 6, pp. 5122 - 5133, Jun. 2017.
- J18 Nikolaos I. Miridakis** and Theodoros A. Tsiftsis, ‘EGC Reception for FSO Systems Under Mixture-Gamma Fading Channels and Pointing Errors,’ *IEEE Communications Letters*, vol. 21, no. 6, pp. 1441 - 1444, Jun. 2017.
- J17 Nikolaos. I. Miridakis** and Theodoros A. Tsiftsis, ‘On the Joint Impact of Hardware Impairments and Imperfect CSI on Successive Decoding,’ *IEEE Transactions on Vehicular Technology*, vol. 66, no. 6, pp. 4810 - 4822, Jun. 2017.
- J16 Nikolaos. I. Miridakis**, Theodoros A. Tsiftsis, George C. Alexandropoulos, and Mérouane Debbah, ‘Simultaneous Spectrum Sensing and Data Transmission for Cognitive Spatial Multiplexing Distributed Systems,’ *IEEE Transactions on Wireless Communications*, vol. 16, no. 5, pp. 3313 - 3327, May 2017.
- J15 Nikolaos. I. Miridakis**, Theodoros A. Tsiftsis, George C. Alexandropoulos, and Mérouane Debbah, ‘Green Cognitive Relaying: Opportunistically Switching Between Data Transmission and Energy Harvesting,’ *IEEE Journal on Selected Areas in Communications*, vol. 34, no. 12, pp. 3725 - 3738, Dec. 2016.
- J14 Nikolaos. I. Miridakis**, Dimitrios. D. Vergados, and Angelos Michalas, ‘Cooperative Spectrum Sharing MIMO Systems with Successive Decoding,’ *Physical Communication*, vol. 20, pp. 109 - 122, Sep. 2016.
- J13 Nikolaos. I. Miridakis**, ‘On the Ergodic Capacity of Underlay Cognitive Dual-Hop AF Relayed Systems Under Non-Identical Generalized-Fading Channels,’ *IEEE Communications Letters*, vol. 19, no. 11, pp. 1965 - 1968, Nov. 2015.
- J12 Nikolaos. I. Miridakis**, ‘Performance analysis of EGC receivers over Generalized- $K$  ( $K_G$ ) fading channels,’ *Wireless Personal Communications*, vol. 80, no. 1, pp. 167 - 173, Jan. 2015.
- J11 Nikolaos. I. Miridakis**, Dimitrios. D. Vergados, and Angelos Michalas, ‘Cooperative relaying in underlay cognitive systems with hardware impairments,’ *AEU-International Journal of Electronics and Communications*, vol. 69, no. 12, pp. 1885 - 1889, Dec. 2015.
- J10 Nikolaos. I. Miridakis**, Dimitrios. D. Vergados, and Angelos Michalas, ‘Performance Analysis of Successive Decoding based on Shadowing Side Information under Non-Identical Composite Fading/Shadowing Channels,’ *IEEE Transactions on Wireless Communications*, vol. 14, no. 9, pp. 4835 - 4846, Sep. 2015.
- J9 Nikolaos. I. Miridakis**, Dimitrios. D. Vergados, and Angelos Michalas, ‘Dual-hop Communication over a Satellite Relay and Shadowed Rician Channels,’ *IEEE Transactions on Vehicular Technology*, vol. 64, no. 9, pp. 4031 - 4040, Sep. 2015.
- J8 Nikolaos. I. Miridakis**, ‘Performance Analysis of V-BLAST Reception under Multiuser Decode-and-Forward Cooperation,’ *IET Communications*, vol. 8, no. 6, pp. 899 - 904, Apr. 2014.
- J7 Nikolaos. I. Miridakis**, Michail Matthaiou, and George K. Karagiannidis, ‘Multiuser Relaying over Mixed RF/FSO Links,’ *IEEE Transactions on Communications*, vol. 62, no. 5, pp. 1634 - 1645, May 2014.
- J6 Nikolaos. I. Miridakis** and Dimitrios. D. Vergados, ‘Generalized Diversity Reception in the Presence of Multiple Distinct Interferers: An Outage Performance Analysis,’ *IEEE Transactions on Wireless Communications*, vol. 13, no. 5, pp. 2443-2453, May 2014.



- J5 Nikolaos. I. Miridakis** and Dimitrios D. Vergados, ‘Efficient Detection-Switching based on Successive Interference Cancellation for MIMO-OFDM Systems,’ *IET Signal Processing*, vol. 7, no. 5, pp. 436 - 443, Jun. 2013.
- J4 Nikolaos. I. Miridakis** and Dimitrios D. Vergados, ‘A Survey on the Successive Interference Cancellation Performance for Single-Antenna and Multiple-Antenna OFDM Systems,’ *IEEE Communications Surveys and Tutorials*, vol. 15, no. 1, pp. 312 - 335, Feb. 2013.
- J3 Nikolaos. I. Miridakis** and Dimitrios D. Vergados, ‘Performance Analysis of the Ordered V-BLAST Approach over Nakagami- $m$  Fading Channels,’ *IEEE Wireless Communications Letters*, vol. 2, no. 1, pp. 18 - 21, Mar. 2013.
- J2 Nikolaos. I. Miridakis**, Dimitrios. D. Vergados, and Emmanouil. Papadakis, ‘A Receiver-Centric OFCDM Approach with Subcarrier Grouping,’ *IEEE Communications Letters*, vol. 16, no. 6, pp. 761 - 764, Jun. 2012.
- J1 Stylianos P. Savaidis** and **Nikolaos. I. Miridakis**, ‘Statistical Model of Downlink Power Consumption in Cellular CDMA Networks,’ *International Journal of Wireless and Mobile Networks (IJWMN)*, vol. 3, no. 4, Aug. 2011.

#### INTERNATIONAL PEER-REVIEWED SCIENTIFIC CONFERENCES

- C16** E. Skondras, A. Michalas, D. J. Vergados, E. T. Michailidis, and **N. I. Miridakis**, ‘A Network Slicing Algorithm for 5G Vehicular Networks,’ in *Proc. 12th IEEE International Conference on Information, Intelligence, Systems and Applications (IISA 2021)*, Crete, Greece, 12-14 July 2021.
- C15** R. Yao, D. Song, L. Yao, T. A. Tsiftsis, **N. I. Miridakis**, N. Qi, X. Zuo, and D. Lou, ‘User Pair-Relay Matching in a Multiple User Pair and Multiple Untrusted Relay Network,’ *WCSP*, Nanjing, China, 21-23 Oct. 2020.
- C14** **N. I. Miridakis**, S. Arzykulov, T. A. Tsiftsis, G. Yang, and G. Nauryzbayev, ‘Green CR-NOMA: A New Interweave Energy Harvesting Transmission Scheme for Secondary Access,’ *International Symposium on Wireless Communication Systems (ISWCS) 2019*, Oulu, Finland, 27-30 August 2019.
- C13** Nan Qi, **Nikolaos. I. Miridakis**, Theodoros A. Tsiftsis, and Rugui Yao, ‘On the fundamental queue analysis for relay-assisted two-stage communication networks,’ *IEEE Wireless Communications and Networking Conference (WCNC)*, Marrakech, Morocco, Apr. 2019.
- C12** Hongwu Liu, **Nikolaos. I. Miridakis**, Theodoros A. Tsiftsis, Kyeong Jin Kim, and Kyung Sup Kwak, ‘Coordinated Uplink Transmission for Cooperative NOMA Systems,’ *IEEE Global Communications Conference (Globecom)*, Abu Dhabi, UAE, Dec. 2018.
- C11** **Nikolaos. I. Miridakis**, Theodoros A. Tsiftsis, Dimitrios. D. Vergados, and Angelos Michalas, ‘A New Two-Stage Multiuser MIMO Detection Approach with Different Priorities,’ *IEEE International Conference on Communications (ICC)*, Kansas, USA, May 2018.
- C10** **Nikolaos. I. Miridakis**, Theodoros A. Tsiftsis and George C. Alexandropoulos, ‘Energy Efficient Transmission in Underlay Massive MIMO Systems with Probabilistic Guarantees,’ *IEEE International Conference on Communications (ICC)*, Kansas, USA, May 2018.
- C9** **Nikolaos. I. Miridakis**, Minghua Xia and Theodoros A. Tsiftsis, ‘Optimal Transmit Power and Active Interference Mitigation of Underlay MIMO Cognitive Systems,’ *IEEE International Conference on Communications (ICC)*, Paris, France, May 2017.
- C8** **Nikolaos. I. Miridakis**, Theodoros A. Tsiftsis, George C. Alexandropoulos, and Mérouane Debbah, ‘Simultaneous Spectrum Sensing and Data Transmission for Multi-User MIMO Cognitive Radio Systems,’ *IEEE GLOBECOM*, Washington D.C., USA, Dec. 2016.

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- C7 Nikolaos. I. Miridakis**, Theodoros A. Tsiftsis, George C. Alexandropoulos, and M erouane Debbah, ‘Energy Efficient Switching between Data Transmission and Energy Harvesting for Cooperative Cognitive Relaying Systems,’ *IEEE International Conference on Communications (ICC)*, Kuala Lumpur, Malaysia, May 2016.
- C6 Nikolaos. I. Miridakis**, Dimitrios. D. Vergados, and Angelos Michalas, ‘Cooperative Relaying in Underlay Cognitive Systems with TAS/MRC, Spatial Correlation and Hardware Impairments,’ *IEEE Vehicular Technology Conference (VTC)*, Boston, USA, Sept. 2015.
- C5 Nikolaos. I. Miridakis**, Michail Matthaiou, and George K. Karagiannidis, ‘Multiuser Dual-Hop Relaying over Hybrid RF/FSO Links,’ *IEEE International Conference on Communications (ICC)*, Sydney, Australia, June 2014.
- C4 Nikolaos. I. Miridakis** and Dimitrios D. Vergados, ‘Complexity Analysis Of a Hybrid Threshold-Based ZF-MMSE Equalizer For SIC-based MIMO-OFDM Receivers,’ *ICETE International Conference on Wireless Information Networks and Systems (WINSYS 2011)*, Seville, Spain, Jul. 2011.
- C3 Nikolaos. I. Miridakis**, Vasilios Giotsas, Dimitrios D. Vergados and Christos Douligeris, ‘A Novel Power-Efficient Middleware Scheme for Sensor Grid Applications,’ *The Sixth International Conference on Heterogeneous Networking for Quality, Reliability, Security and Robustness (QSHINE 2009)*, Las Palmas, Spain, Nov. 2009.
- C2 Nikolaos. I. Miridakis**, Dimitrios D. Vergados, Ioannis Anagnostopoulos and Christos Douligeris, ‘A discussion on proxy-based middleware for Sensor Grid Architectures,’ *4th EGEE User Forum/OGF25 and OGF-Europe’s 2nd International Event*, Catania, Italy, Mar. 2009.
- C1 Nikolaos A. Pantazis**, Dimitrios D. Vergados, **Nikolaos. I. Miridakis**, Dimitrios J. Vergados, ‘Power control schemes in wireless sensor networks for homecare e-health applications,’ *1st ACM International Conference on Pervasive Technologies Related to Assistive Environments (PETRA ’08)*, Athens, Greece, Jul. 2008.