

# Theodoros Tsiftsis

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## Personal data

Name Theodoros Tsiftsis  
Birth November 9, 1970, Lamia, Greece.  
Address Department of Computer Science & Telecommunications, University of Thessaly, Greece.  
Address Papasiopoulou 2 - 4, 35131 - Galaneika, Lamia  
Email tsiftsis@uth.gr

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## Education

- 2002–2006 **Ph.D. Diploma in Electrical Engineering**, *School of Electrical & Computer Engineering, University of Patras, Patras, Greece*, PhD Thesis supervised by Profs. Stavros Kotsopoulos & George Karagiannidis entitled “*Performance Analysis–Optimization of Wireless Relaying Communication Systems*” .
- 1999–2000 **Master in Decision Sciences**, *Athens University of Economics & Business, Athens, Greece*, Master Thesis supervised by Gregorios Prastakos entitled “*Implementation of the IP Telephony in the Greek Market*” .
- 1994–1995 **Master in Digital Systems Engineering**, *Department of Computing & Electrical Engineering, Heriot–Watt University, Scotland, U.K.*, Master Thesis supervised by Dr. Stephen J. Finney entitled “*Digital PWM Generator*” .
- 1989–1993 **Bachelor’s Degree in Physics**, *Department of Physics, Aristotle University of Thessaloniki, Thessaloniki, Greece*.

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## Positions

- 08/2020–Present **Associate Professor**, *Dept. of Computer Science & Telecommunications, University of Thessaly, Greece*.
- 03/2019–07/2020 **Associate Professor**, *General Department (Lamia), University of Thessaly, Greece* [on leave].
- 03/2018– **Professor**, *School of Intelligent Systems Science & Engineering, Jinan University (Zhuhai Campus), Zhuhai, Guangdong Province (China)*.
- 08/2015–03/2018 **Associate Professor in Communication Technologies**, *Department of Electrical & Computer Engineering, Nazarbayev University (Kazakhstan)*.
- 09/2015–01/2017 **Adjunct Professor**, *MSc Wireless Communication Systems, Open University of Cyprus (Cyprus)*.
- 09/2015–2/2018 **Associate Professor**, *Electrical Engineering Department, TEI of Sterea Ellada* (now merged with University of Thessaly)[on leave].

- 02/2010– 08/2015 **Assistant/Associate Professor**, *Electrical Engineering Department, TEI of Sterea Ellada (now merged with University of Thessaly)*.
- 01/2008 – 01/2009 **Adjunct Lecturer**, *M.Sc. of Electronics & Radioelectrology Physics Department and Department of Informatics & Telecommunications, University of Athens, Athens (Greece)*.
- 01/2006 – 01/2008 **Adjunct Professor**, *Department of Computer Science and Biomedical Informatics University of Thessaly, Lamia (Greece)*.
- 01/2002 – 01/2006 **Adjunct Lecturer**, *Departments: Electrical Engineering, Electronic Engineering and Informatics, Technological Educational Institute of Lamia [merged with University of Thessaly, Greece] (Greece)*.
- 01/2002 – 02/2010 **Public Servant**, *Ministry of Justice (Greece)*.
- 11/1997 – 01/2002 **Sales/Telecom Engineer/Project Manager**, *Philips Business Communications, Philips Hellas S.A. (subsidiary of Royal Philips Electronics N.V.) Tavros, Athens (Greece)*.

## Research Interests

- 5G/6G Technologies
- Reconfigurable Intelligent Surfaces
- Ultra Reliable & Low Latency Communication (URLLC)
- Machine Learning/Deep Learning for Wireless Communications
- Internet of Things (IoT)
- Physical Layer Security
- Wireless Powered Communications
- Optical Wireless (FSO & VLC)

## Honors & Awards

- June 2019 **Honorary Professor**, *Shandong JiaoTong University, China*.
- 2018-2019 **IEEE Vehicular Technology Society Distinguished Lecturer**.
- 2007 **PhD Prize, Ericsson award of excellence in Telecommunications**, *ERICSSON HELLAS S.A.*
- 2004 **Student Travel Award**, *IEEE ComSoc for the conference IEEE Globecom 2004*.
- 1992 **Honors in the Bachelor of Physics**, *Aristotle University of Thessaloniki*.

## Research Visits - Invited Research Talks

- 20 - 22.11.2019 **Physical Layer Aspects of Ultra-Reliable Low-Latency Communication**, *Spain VTS Chapter, Winter School on New radio access techniques enabling advanced video applications in 5G, TeamUp5G, Madrid, Spain*.

- 16.11.2019 **Physical Layer Aspects of Ultra-Reliable and Low-Latency Communication in 5G Applications and Beyond**, *Keynote Speech*, The 8th IET International Conference on Wireless, Mobile & Multimedia Networks (ICWMMN2019) 15-17 November 2019, Beijing, China .
- 15.10.2019 **Physical Layer Aspects of Ultra-Reliable and Low-Latency Communication in 5G Applications and Beyond** , *Central South University* , Changsha, China.
- 14.10.2019 **Physical Layer Aspects of Ultra-Reliable and Low-Latency Communication in 5G Applications and Beyond** , *Hunan University* , Changsha, China.
- 23.09.2019 **Physical Layer Aspects of Ultra-Reliable and Low-Latency Communication in 5G Applications and Beyond** , *Shandong Jiaotong University* , Jinan City, China.
- 18-19.5.2019 **Ultra-Reliable and Low-Latency Communication (URLCC)**, *Shanghai Jiaotong University*, Shanghai, China.
- 16-17.5.2019 **Ultra-Reliable and Low-Latency Communication (URLCC)**, *Shanghai University*, Shanghai China.
- 28.3.2019 **Next-Generation Green Cognitive Radio**, *The University of Hong Kong*, Hong Kong.
- 15.3.2019 **Next-Generation Green Cognitive Radio**, *Sun Yat-Sen University*, Guangzhou, China.
- 10.11.2018 **Wireless Powered Cognitive Radio Networks**, *Army Engineering University of PLA*, Nanjing, China.
- 10.11.2018 **Wireless Powered Cognitive Radio Networks**, *Nanjing University of Posts & Telecommunications*, Nanjing, China.
- 22-28.10.2018 **Research Visit**, *Metamaterials Modeling and Design Group*, led by Prof. K. Valagiannopoulos, Department, Nazarbayev University, Astana, Kazakhstan.
- 16.5.2018 **Next-Generating Green Cognitive Radio**, *University of Macau*, Macau.
- 06.5.2018 **Next-Generating Green Cognitive Radio**, *New York University Abu Dhabi (NYUAD)*, Abu Dhabi, UAE.
- 23.3.2017 **PHY Technologies for Versatile Wireless Communication Systems**, *Jinan University*, Zhuhai, Guandong, P.R. China.
- 12-17.12.2016 **Global Initiative of Academic Networks (GIAN) in Higher Education** [[GIAN Project](#)], *India*.
- 08.11.2016 **Advanced Wireless Communication Technologies: A PHY–Layer Perspective**, *Heriot–Watt University*, Edinburgh, UK.
- 22.3.2016 **Advanced Wireless Communication Technologies: A PHY–Layer Perspective**, *South University of Science & Technology of China*, Shenzhen, China.
- 10.2.2014 **Optical Wireless Communications – An Emerging Technology**, *Invited Expert at EU ICT COST Action IC1101*, Edinburgh, Scotland, U.K.

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## Academic Administrative Services

- 02/17–03/2018 **Director of the PhD Studies**, *Chairman of the PhD Program Committee and Director of the PhD studies in Science, Engineering & Technology*, a joint PhD program between School of Engineering (SEng) and School of Science and Technology (SST), Nazarbayev University.
- 08/16–03/2017 **MSc Program Coordinator**, *Coordinator for the MSc Program in Electrical and Electronics Engineering*, Department of Electrical and Electronic Engineering, School of Engineering, Nazarbayev University.
- 01/2016–01/2017 **PhD Program Coordinator**, *Coordinator for the PhD subprogram in Information and Communication Technologies*, PhD Program in Science, Engineering & Technology, Nazarbayev University.

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## Teaching Experience

- 2019-2020 **Jinan University, China**, 08062081 *Principles of Mobile Communications (Theory)*, 3rd year UG Course.
- 2018-2019 **Jinan University, China**, 08062081 *Principles of Mobile Communications (Theory)*, 3rd year UG Course.
- 2015-2017 **Nazarbayev University, Kazakhstan**, *PhD (EICT), MSc (MEE & EMEM) and BSc (EEE) Courses*, EICT 702-Advanced Communications, EICT 752-Mobile Communications, EMEM528- Information Systems Management, MEE615-Advanced Mobile Communications, MEE607-Advanced Signal Processing, MEE620-Communications, MEE615-Wireless Communications, MEE620-RF and Microwave Communications Systems, EEE435-Advanced Digital Communications, EEE435 Digital Communications.
- 2015-2017 **Open University of Cyprus, Cyprus**, *MSc Course*, SAE511-Digital Communications.
- 2010-2015 **Technological Education Institute (TEI) of Sterea Ellada (merged with University of Thessaly, Greece)**, *BSc Courses*, Introduction to Telecommunications, Signal Theory, Electronics I, Electronics II, Digital Systems, Applied Mathematics.
- 2008-2009 **Technological Educational Institute (TEI) of Lamia, Greece (merged with University of Thessaly, Greece)**, *BSc Courses*, Introduction to Telecommunications, Signal Theory.
- 2007-2009 **M.Sc. of Electronics & Radioelectrology Physics Department and Department of Informatics & Telecommunications, University of Athens, Greece**, *MSc Course (Co-Teaching with Prof. K. Karoubalos)*, Digital Communications I, Digital Communications II.
- 2006-2009 **University of Central Greece (merged with University of Thessaly, Greece)**, *BSc Courses*, Information Theory, Wireless Communication Systems.
- 2001-2005 **Technological Educational Institute (TEI) of Lamia, Greece**, *Adjunct Lecturer & Lab Instructor for BSc Courses*, Computer Architecture, Telecommunications, Mobile Communications, .

2002-2006 **University of Patras, Greece, Lab Instructor (Co-Teaching) BSc Courses,** Wideband Transmission Systems, Wave Propagation and Antenna Design.

## Supervision & Mentoring

### PostDoc Students & Research Associates

Feb. 2019–  
Present **Dr. Nikos Miridakis, Distinguished Associate Researcher,** Institute of Physical Internet, Jinan University, Zhuhai, Guangdong China.

Dec. 2015–Sep.  
2018 **Dr. Nikos Miridakis, Research Area: Cognitive Radio, Wireless Powered Communications and Green Communications,** Piraeus University of Applied Sciences, Greece.

2016–2018 **Dr. Galymzhan Nauryzbayev, Research Area: Interference Alignment and MIMO,** Nazarbayev University, Astana, Kazakhstan & Hamid Bin Khalifa University, Doha, Qatar.

### PhD Students

08/2015–  
04/2019 **Sultangali Arzykulov, PhD Thesis: Enhanced Cognitive Radio with Energy Harvesting and Non-Orthogonal Multiple Access,** Nazarbayev University, Kazakhstan, PhD Defense date: 10-4-2019.

01/2017–  
04/2020 **Leila Tlebaldiyeva, PhD Thesis: Spectrum sensing/sharing cognitive radio systems with hardware constraints,** Nazarbayev University, Kazakhstan , PhD Defense date: 08-4-2020.

### PhD Exam Committees

2011–2016 **Dimitrios Karras, PhD Thesis: Efficient Techniques for Securing Wireless Communications Systems,** Aristotle University of Thessaloniki, Greece.

2006–2011 **Taghreed Safaryan, PhD Thesis: Design of Ultra-Wide Band Transceivers,** Aristotle University of Thessaloniki, Greece.

### PhD External Reviewer

2017 **Rajarajan S., PhD Thesis: Throughput-Reliability Tradeoff Analysis of Multiplexing Oriented Transmission Schemes,** Indian Institute of Technology (IIT) Kharagpur, India.

2016 **C. Liu, PhD Thesis: Physical Layer Security in Wireless Communication Systems,** The University of New South Wales (UNSW), Sydney, Australia.

2015 **Parul, P., PhD Thesis: Free-Space Optics: Performance Evaluation of Diversity Techniques,** University of Delhi, India.

2009–2016 **6 PhD Theses, Research Area: Physical & MAC layer of wireless communications,** Anna University, India.

### MSc Students

2016 **Omar-Sayan Karabayev, MSc Thesis: LTE in Unlicensed Bands: A Rival or Collaborator to WiFi?,** Nazarbayev University, Kazakhstan .

2017 **Arman Tynyshtykbayev, MSc Thesis: A Multi-Band Energy Harvesting Module,** Nazarbayev University, Kazakhstan.

2017 **Ruslan Konurbayev**, *MSc Thesis: Performance Analysis of Cognitive Radio Systems under Transceiver Hardware Impairments*, Nazarbayev University, Kazakhstan.

2017 **Rinat Yakupov**, *MSc Thesis: Non-Orthogonal Multiple Access (NOMA) Relaying Communication Systems*, Nazarbayev University, Kazakhstan.

### BSc Capstone Projects

2019-2020 **Yongtao Lian**, *Performance Analysis of Ultra-Reliable and Low-Latency Communication over Fading Channels*, Jinan University, China.

2018-2019 **Jianqiang (Eason) Chen**, *Cognitive Radio Non-Orthogonal Multiple Access Communication Systems, June 2019*, Jinan University, China, (now, MSc. student in The University of Virginia, USA).

Apr. 2018 - present **Final Year Thesis**, *Supervision of 10 final year undergraduate Theses*, Jinan University, China.

2015–2018 **Capstone Projects**, *Supervision of 5 final year undergraduate Capstone Projects*, Nazarbayev University, Kazakhstan.

2002–2015 **Capstone Projects**, *Supervision of 20 final year undergraduate Capstone Projects*, Technological Educational Institute of Central Greece, Lamia, Greece).

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### Research Projects

2019-2021 **Core Member, General Project of Natural Science Foundation of Guangdong Province, 2019A1515012136**, *Title: Research on Physical Layer Security for Ultra-Secure and Reliable IoT Applications*, Duration: 2019/10-2021/09, Budget: RMB 100,000.

2019-2021 **Core Member, Guangdong Science and Technology Plan Project**, *Title: Key Optical Wireless Converged Technologies for Distributed 5G Systems*, Funding Source: Guangdong Province, China, Coordinator: Sun Yat-Sen University, Duration: 1.1.2019 - 31.12.2021, Budget: 30M RMB  $\approx$  4.5M USD.

2018-2020 **External Collaborator, NU Small Grant, PI Prof. C. Valagiannopoulos, Physics Dept.**, *Title: Super transmitters, radiators and lenses via photonic synthetic matter, SST2018039*, Duration: 2018/01-2020/12, Budget: USD 150,000.

2016–2017 **PI, Social Grant**, *“Energy Harvesting and Information Transfer in Cooperative Cognitive Radio Networks”*, Nazarbayev University, Budget: 10,000 USD.

2013–2016 **Key Personnel, Senior Researcher**, *7th Framework Programme for Research, Activity 11–1.1 FutNetw STREP+IP*, *“SOLDER: Spectrum OverLay through aggregation of heterogeneous DispERsed Bands”*, Budget: 2,485,454 EUR.

2013–2015 **Framework: NSRF 2007–2013, Action COOPERATION 2011**, *“Fuel consumption reduction in marine power systems through innovative energy recovery management (ECOMARINE)”*, Budget: 2,464,226.50 EUR.

2013–2015 **Qatar National Research Fund, National Priorities Research Program**, *“PSpARC: A Framework for Pervasive and Spectrum Aggregating Radio with Cognition”*, Budget: 370,000 USD.

- 2012–2015 **Framework: NSRF 2007–2013, Action COOPERATION 2009**, “*Energy Saving in Elevators Systems (LESS)*”, Budget: 500,000 EUR.
- 2013–2015 **PI, Framework: NSRF 2007–2013, Action ARCHIMEDES III**, “*Interconnection of Distributed Renewable Energy Sources with the public grids (DGRES)*”, Budget: 100,000 EUR.
- 2011–2014 **Framework: NSRF 2007–2013, Action HELLENIC CRAFT PROJECT**, “*Energy Saving and Harmonic Cancellation for Industrial Loads*”, Budget: 361,000 EUR.
- 2007–2009 **General Secretariat of Research & Technology (Bilateral Cooperation Greece–Tunisia)**, “*On the study of generalized fading distributions for wireless digital communications*”, Budget: 11,740 EUR.
- 2004–2006 **General Secretariat of Research & Technology (Bilateral Cooperation Greece–Poland)**, “*Analysis of deployment possibilities of transmit and receive diversity in wireless access systems*”, Budget: 11,740 EUR.

## Memberships in Professional Societies

- 2018- Present **Active Member**, *IEEE Signal Processing Society*.
- 2018- Present **Active Member**, *IEEE Vehicular Technology Society*.
- 2016-2019 **Member**, *Institute of Electronics, Information & Communications Engineers (IEICE)*.
- 2012-2014 **Member**, *Institute of Engineering Technology (IET)*.
- 2010- Present **Senior Member**, *The Institute of Electrical & Electronics Engineers (IEEE)*.
- 2004-2010 **Member**, *The Institute of Electrical & Electronics Engineers (IEEE)*.
- 2002- Present **Active Member**, *IEEE Communications Society*.
- 2002-2004 **Student Member**, *The Institute of Electrical & Electronics Engineers (IEEE)*.

## Professional Activities

### Editorial Positions

- 06/2020 – Present **Frontiers in Communications and Networks**, *Review Editor*.
- 02/2017 – Present **IEEE Transactions on Mobile Computing**, *Associate Editor*.
- 01/2016 – Present **IEEE Transactions on Communications**, *Area Editor for Wireless Communications II*.
- 05/2015 – 01/2017 **IEICE Transactions on Communications**, *Associate Editor*.

- 10/2012 – **IEEE Transactions on Communications**, *Associate Editor for Performance Analysis for Wireless Systems*.  
12/2015
- 01/2014 – **IEEE Communications Letters**, *Senior Editor*.  
07/2015
- 07/2010 – **IET Communications**, *Associate Editor*.  
06/15
- 10/2010 – **IEEE Transactions on Vehicular Technology Editor**, *Associate Editor*.  
10/2012
- 07/2010 – **IEEE Communications Letters**, *Associate Editor*.  
01/2014

### Guest Editorial Positions

- 2018-2019 **Guest Editor**, *Special Issue on “Spatial Modulation in Emerging Wireless Systems,”* IEEE Journal on Selected Areas in Communications.
- 2016-2017 **Lead Guest Editor**, *Special Issue on “Spectrum Sharing and Aggregation for Future Wireless Networks,” 2016 (attracted 174 submissions) – 3 published issues*, IEEE Journal on Selected Areas in Communications.
- 2015 **Editor**, “*Advances in Statistical Channel Modeling for Wireless Communications*”, International Journal of Antennas and Propagation.

### International Research Committees

- 01/2018 – **Member**, *National Scientific Council*, Priority direction “National Security and Present Defense”, Republic of Kazakhstan.
- 02/2014 – **National Expert**, *Appointed as one of the three National Experts for Greece in the EU-HORIZON 2020 Information and Communication Technologies theme 2014-2020*, Greece.  
01/2017

### IEEE Services

- 09/2017- **Vice-President**, *IEEE Kazakhstan SubSection*.  
03/2018

### Academic Consultancy

- 28.04.2017 **External Reviewer**, *Almaty University of Energy and Communications*, Expert – Review to the educational program “Telecommunications”, developed within the framework of the bachelor’s degree “5B071900 - Radio Engineering, Electronics and Telecommunications” in English, Almaty, Republic of Kazakhstan.  
31.12.2017

### Research Projects Evaluator

- European Research Council (ERC)
- King Abdulah University of Science & Technology, Kingdom of Saudi Arabia
- National Foundation for Science and Technology Development (NAFOSTED), Vietnam
- General Secretariat of Research and Technology (GSRT), Greece

### Journal Reviewer



Regular reviewer for the following :

- IEEE Transactions on Communications
- IEEE Transactions on Wireless Communications
- IEEE Journal on Selected Areas in Communications
- IEEE Transactions on Mobile Computing
- IEEE Transactions on Signal Processing
- IEEE Transactions on Vehicular Technology
- IEEE Transactions on Information Theory
- IEEE Communications Letters
- IEEE Wireless Communications Letters
- IEEE Signal Processing Letters
- IEEE Access
- IEEE Communications Magazine
- IEEE Surveys & Tutorials
- IEEE/OSA Journal of Lightwave Technology
- IEEE/OSA Journal of Optical Communications and Networking
- IET Communications
- EURASIP Journal of Wireless Communication Networks

### **Conference Reviewer**

Regular reviewer for the following conferences:

- IEEE Global Telecommunications Conference
- IEEE Conference on Communications
- IEEE Vehicular Technology Conference
- IEEE Wireless Communications and Networking Conference
- IEEE International Symposium on Personal, Indoor and Mobile Radio Communications

### **Technical Program Committee (TPC)**

2020 **Co-Chair**, *Track on Spectrum Sharing, Spectrum Management, and Cognitive Radio*, VTC 2020 Spring, Antwerp, Belgium.

- 2018 **Symposium Co-Chair**, *Communication Theory Symposium*, 2018 international conference on wireless communications and signal processing (WCSP 2018), Hangzhou, China, October 18-20, 2018.
- 2018 **Program Chair**, *IEEE Second International Conference on Computing and Network Communications (CoCoNet'18)*, Astana, Kazakhstan.
- 2014 **Co-Chair**, *IEEE VTC-2014, Track Co-Chair: Cooperative Communications, Distributed MIMO and Relaying*.
- 2008-2021 **TPC Member**, *T. A. Tsiftsis has participated in various symposiums in IEEE flagship conferences on Communications: IEEE GLOBECOM: 2008, 2013-2019 — IEEE ICC: 2010, 2011-2020.*

## Patents

- [P4] Ye Diliao, Wang Wei, Li Xiaojie, Qi Nan, Zhong Junjie, Wang Mei, **Theodoros A. Tsiftsis**, Huang Zhanqi, Yin Zhen, Su Yueyue, Li Yumeng, Wang Kewei “Method for calculating average waiting time of users in communication service mode by relaying data,” SIPO Patent, No.: 2020104338351.
- [P3] Shi Zheng, Yang Guanghua, Zhang Chenmeng, **Theodoros A. Tsiftsis**, Qu Ting, Ma Shaodan, “A downlink power allocation method for HARQ-assisted NOMA technology,” SIPO Patent, Application No.: 201911015085.X. Date: 2019.10.24.
- [P2] Shi Zheng, Yang Guanghua, **Theodoros A. Tsiftsis**, Ma Shaodan, Qu Ting, “A downlink virtual MIMO-NOMA method based on power and rate joint optimization,” SIPO Patent, Application No.: 201911015106.8. Date: 2019.10.14.
- [P1] Qi Nan, Liu Gang, **Theodoros A. Tsiftsis**, Yao Rugui, Su Zhe, Chen Jiabin “A free-channel-oriented full-duplex UAV relay communication method,” SIPO Patent, No.: 201910347406.X, 2019.04.28.

## Publications

- Editorials: **5**.
- Chapter in **2** Books:
- Journals: **138 (113 IEEE publications/71 IEEE Transactions)**.
- Conferences: **77**.

## Citations Statistics & h-Index

- **Google Scholar**, Citations: **6100**, h-Index: **36**, [Google Scholar Profile](#)
- **Scopus**, Citations: **4414**, h-Index: **29**, Scopus ID: 35613331800
- **ISI Web of Science**, Citations: **3474**, h-Index: **26**

*Note: Citations via Scopus and ISI Web of Science have been counted by excluding self-citations.*

September 1, 2020

# Theodoros Tsiftsis

## List of Publications

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### Editorials

- [ED5] K. J. Kim, M. Wen, M. Di Renzo, **T. A. Tsiftsis**, K.-C. Chen, and N. Al-Dhahir, "Spatial Modulation in Emerging Wireless Systems," Special Issue in IEEE Journal on Selected Areas in Communications, vol. 37, no. 9, pp. 1945-1948, Sept. 2019.
- [ED4] **T. A. Tsiftsis**, G. Ding, Y. Zou, G. K. Karagiannidis, Z. Han and L. Hanzo, "Guest Editorial Spectrum Sharing and Aggregation for Future Wireless Networks, Part III," IEEE Journal on Selected Areas in Communications, vol. 35, no. 1, pp. 1-5, Jan. 2017.
- [ED3] **T. A. Tsiftsis**, G. Ding, Y. Zou, G. K. Karagiannidis, Z. Han and L. Hanzo, "Guest Editorial Spectrum Sharing and Aggregation for Future Wireless Networks, Part II," IEEE Journal on Selected Areas in Communications, vol. 34, no. 11, pp. 2809-2813, Nov. 2016.
- [ED2] **T. A. Tsiftsis**, G. Ding, Y. Zou, G. K. Karagiannidis, Z. Han and L. Hanzo, "Guest Editorial Spectrum Sharing and Aggregation for Future Wireless Networks, Part I," IEEE Journal on Selected Areas in Communications, vol. 34, no. 10, pp. 2533-2536, Oct. 2016.
- [ED1] J. F. Paris, P. C. Sofotasios, and **T. A. Tsiftsis**, "Advances in Statistical Channel Modeling for Wireless Communications," International Journal of Antennas and Propagation, vol. 2015, Article ID 541619, 2 pages, 2015.

### Book Chapters

- [BC2] H. Zhang, **T. A. Tsiftsis**, J. Cheng, and V. Leung, "Resource Allocation in Spectrum Sharing Cognitive Heterogeneous Networks," Chapter in Book, Handbook of Cognitive Radio - Section "Dynamic Spectrum Access and Sharing," Handbook of Cognitive Radio, Springer 2017.
- [BC1] F. Kaltenberger, **T. A. Tsiftsis**, F. Foukalas, O. Holland and S. Ping, "Aggregation of spectrum opportunities," Chapter in the Book "Opportunistic Spectrum Sharing and White Space Access: The Practical Reality," Wiley, April 2015.

### Journal Papers

- [J138] U. Singh, M. R. Bhatnagar, and **T. A. Tsiftsis**, "Feedback-Based SSK Modulation: Constellation Design and Performance Results," IEEE Transactions on Communications, accepted for publication, Aug. 2020.
- [J137] L. Yang, X. Yan, D. B. da Costa, **T. A. Tsiftsis**, H.-C. Yang, and M.-S. Alouini, "Indoor Mixed Dual-Hop VLC/RF Systems Through Reconfigurable Intelligent Surfaces," IEEE Wireless Communications Letters, accepted for publication, July 2020.
- [J136] Y. Li, N. I. Miridakis, **T. A. Tsiftsis**, G. Yang, and M. Xia, "Air-to-Air Communications Beyond 5G: A Novel 3D CoMP Transmission Scheme," IEEE Transactions on Wireless Communications, accepted for publication, July 2020.
- [J135] S. Wang, R. Yao, **T. A. Tsiftsis**, N. I. Miridakis, and N. Qi, "Signal Detection in Uplink Time-Varying OFDM Systems Using RNN with Bidirectional LSTM," IEEE Wireless Communications Letters, accepted for publication, July 2020.

- [J134] N. I. Miridakis, **T. A. Tsiftsis**, and G. Yang, "Generalized Energy Detection Under Generalized Noise Channels," *IEEE Wireless Communications Letters*, accepted for publication, July 2020.
- [J133] S. Atapattu, R. Fan, P. Dharmawansa, G. Wang, J. Evans, and **T. A. Tsiftsis**, "Reconfigurable Intelligent Surface assisted Two-Way Communications: Performance Analysis and Optimization" *IEEE Transactions on Communications*, accepted for publication, July 2020.
- [J132] L. Yang, J. Yang, W. Xie, M. O. Hasna, **T. A. Tsiftsis**, M. Di Renzo, "Secrecy Performance Analysis of RIS-Aided Wireless Communication Systems," *IEEE Transactions on Vehicular Technology*, accepted for publication, June 2020.
- [J131] X. Li, Q. Wang, Y. Liu, **T. A. Tsiftsis**, Z. Ding, and A. Nallanathan, "UAV-Aided Multi-Way NOMA Networks with Residual Hardware Impairments," *IEEE Wireless Communications Letters*, accepted for publication, May 2020.
- [J130] P. Raut, P. K. Sharma, **T. A. Tsiftsis**, and Y. Zou, "Power-Time Splitting-based Non-Linear Energy Harvesting in FD Short-Packet Communications," *IEEE Transactions on Vehicular Technology*, vol. 69, no. 8, pp. 9146-9151, Aug. 2020.
- [J129] R. Yao, Y. Zhang, Q. Wu, **T. A. Tsiftsis**, N. Qi, X. Zuo, and S. Guo, "A Spectrum Efficient Constellation to Simultaneously Transmit Information and Synchronization Sequence," *IEEE Access*, vol. 8, pp. 95442-95456, 2020.
- [J128] N. Qi, N. I. Miridakis, M. Xiao, **T. A. Tsiftsis**, R. Yao, and S. 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.
- [J127] H. Liu, **T. A. Tsiftsis**, K. J. Kim, K. S. Kwak, and H. V. Poor, "Rate Splitting for Uplink NOMA with Enhanced Fairness and Outage Performance," *IEEE Transactions on Wireless Communications*, vol. 19, no. 7, pp. 4657-4670, July 2020.
- [J126] N. Qi, M. Wang, W.-J. Wang, **T. A. Tsiftsis**, R. Yao, G. Yang, "Energy Efficient Full-duplex UAV Relaying Networks Under Load-Carry-and-Delivery Scheme," *IEEE Access*, vol. 8, pp. 74349-74358, 2020.
- [J125] M.-M. Zhao, Y. Cai, M.-J. Zhao, B. Champagne, and **T. A. Tsiftsis**, "Improving Caching Efficiency in Content-aware C-RAN-based Cooperative Beamforming: A Joint Design Approach," *IEEE Transactions on Wireless Communications*, vol. 19, no. 6, pp. 4125-4140, June 2020.
- [J124] L. Tlebaldyeva, B. Maham and **T. A. Tsiftsis**, "Capacity Analysis of Device-to-Device mmWave Networks Under Transceiver Distortion Noise and Imperfect CSI," *IEEE Access*, vol. 69, no. 5, pp. 5707-5712, May 2020.
- [J123] K. Guo, K. An, B. Zhang, Y. Huang, X. Tang, G. Zheng, and **T. A. Tsiftsis**, "Physical Layer Security for Multiuser Satellite Communication Systems with Threshold-based Scheduling Scheme," *IEEE Transaction on Vehicular Technology*, vol. 69, no. 5, pp. 5129-5141, May 2020.
- [J122] Q. Huang, M. Lin, J.-B. Wang, **T. A. Tsiftsis**, and J. Wang, "Energy Efficient Beamforming Schemes for Satellite-Aerial-Terrestrial Networks," *IEEE Transactions on Communications*, *IEEE Transactions on Communications*, vol. 68, no. 6, pp. 3863-3875, June 2020.
- [J121] W. Zhao, G. Wang, S. Atapattu, **T. A. Tsiftsis**, and X. Ma, "Performance Analysis of Large Intelligent Surface Aided Backscatter Communication Systems," *IEEE Wireless Communications Letters*, vol. 9, no. 7, pp. 962-966, July 2020.

- [J120] W. Zhao, G. Wang, S. Atapattu, **T. A. Tsiftsis**, and C. Tellambura, "Is Backscatter Link Stronger than Direct Link in Reconfigurable Intelligent Surface-Assisted System?," *IEEE Communications Letters*, vol. 24, no. 6, pp. 1342-1346, June 2020.
- [J119] Z. Shi, H. Wang, Y. Fu, G. Yang, S. Ma, F. Hou, and **T. A. Tsiftsis**, "Zero-Forcing Based Downlink Virtual MIMO-NOMA Communications in IoT Networks," *IEEE Internet of Things Journal*, vol. 7, no. 4, pp. 2716-2737, April 2020.
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