

Prof. Nikolaos C. Sagias *BSc, MSc, PhD*

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Department of Informatics & Telecommunications, University of Peloponnese, Akadimaikou, GK Vlahou, Tripoli 22131 Greece

PROFESSIONAL SUMMARY



A seasoned academic and researcher at the University of Peloponnese, with over two decades of experience in telecoms. Expertise includes wireless and satellite communication systems, 5G/6G communication systems, and advanced signal processing. Recognized for contributions to communications theory and systems performance, with numerous published works in top-tier journals and conferences, who consistently ranked among the top 2% of researchers globally in the field. Served as an editor for prestigious journals and with extensive experience in teaching, curriculum design and academic leadership.

PERSONAL INFORMATION

Name: Nikolaos

Surname: Sagias

Nationality: Greek

Date of birth: Nov 1st, 1974

Status: Married/Two (2) children

Country of origin: Greece

Gender: Male



PROFESSIONAL EXPERIENCE

2020-today: Professor

Department of Informatics and Telecommunications, University of Peloponnese

Subject: [Digital Telecommunications](#)

2014-19: Associate Professor

Department of Informatics and Telecommunications, University of Peloponnese

Subject: [Digital Telecommunications](#)

2009-14: Assistant Professor

Department of Informatics and Telecommunications, University of Peloponnese

Subject: [Digital Telecommunications](#)

2008-09: Adjunct Lecturer

Department of Telecommunications, Science and Technology, University of Peloponnese

2006-08: Postdoc Research Scholar

Institute of Informatics and Telecommunications, National Centre of Scientific Research – “Demokritos”

2000-12: Senior Researcher

Institute of Space Applications and Remote Sensing, National Observatory of Athens

MAIN RESEARCH INTERESTS

Main research interests span the broad area of digital communications, and more specifically include:

- × Wireless and mobile telecommunication systems
- × Satellite communications
- × Information theory
- × Modulation and coding
- × Signal processing for communications
- × Software-defined radio
- × Multiple input – multiple output (MIMO) systems
- × Communications theory
- × Statistical telecommunications
- × Free-space optical links
- × Multihop networks

ACADEMIC DEGREES

2005: Doctor of Philosophy (PhD) in Telecommunications Engineering

Department of Physics, University of Athens

2001: Master of Science (MSc) in Electronics and Radioelectrology

Departments of Physics and Informatics & Telecommunications, University of Athens

1998: Bachelor of Science (BSc) in Physics

Department of Physics, University of Athens

RESEARCH AND DEVELOPMENT PROJECTS

Extensive experience in participating in both National and European research and development projects:

Principal Investigator

- × **2013-14: Research project:** “Optimal Design for Broadband Wireless Communication Systems with Real Imperfections (OdesRI),” *ELKE, University of Peloponnese*
- × **2022-23: General chair of conference:** “Panhellenic Conference on Electronics and Telecommunications (PACET),” *ELKE, University of Peloponnese*

European Project Participation

- × **2012-16: Research project:** “ICT COST Action IC1104: Random Network Coding & Designs over GF(q),” *European Union*
- × **2011-12: Research and development project:** “ESA Support to the SatNex Network of Experts – SatNex III,” *European Space Agency*
- × **2009: Research and development project:** “Enhanced Multicarrier OFDM Digital Transmission Techniques for Broadband Satellites,” *European Space Agency*
- × **2006-09: Research project:** “European Satellite Communications Network of Excellence (SatNex II),” *European Union, 6th framework research Network of Excellence*
- × **2004-06: Research project:** “European Satellite Communications Network of Excellence (SatNex I),” *European Union, 6th framework research Network of Excellence*

National Project Participation

- × **2021-23: Research and development project:** “Robotic system for functional restoration of hand extremity in neurological patients (REHABOTICS),” *Research – Create – Innovate, Research, Technological Development and Innovation*
- × **2021-23: Research project:** “Strengthening and accelerating the processes of mergers and abolitions of institutions at the University of Peloponnese,” *ELKE, University of Peloponnese*
- × **2014-15: Research and development project:** “Wireless services over passive optical networks FTTx and radio-over-fiber,” *COOPERATION, Ministry of Education, Research and Religious Affairs*
- × **2014-15: Research and development project:** “Novel transmission and broadband wireless networks design techniques (EKTEINO),” *THALIS, Ministry of Education, Research and Religious Affairs*
- × **2013-15: Research and development project:** “Adaptive technology in optical transmission (PROTOMI),” *THALIS, Ministry of Education, Research and Religious Affairs*
- × **2013-14: Research project:** “Optical signal processing for fade mitigation in outdoor optical wireless systems (FA-MOOSE),” *ELKE, Ministry of Education, Research and Religious Affairs*
- × **2004: Member of research project:** “Advanced vehicles telematics systems (PROSTO),” *Ministry of Transportation and Communication*
- × **2001-02: Research project:** “Study for DAB digital radio services operation in Greece,” *Ministry of Transportation and Communication*
- × **2000-01: Research project:** “Study of wideband LEO/MEO satellite networks for multimedia mobile telecommunication systems,” *PENED, General Secretary of Research and Technology*

TEACHING EXPERIENCE

More than sixteen (16) years of teaching experience at both under- and post-graduate levels, committed to student success and fostering a learning environment that encourages critical thinking and innovation.

With a teaching portfolio spanning a broad spectrum of courses, that includes core and elective courses in the Computer Science and/or Electrical Engineering curriculum, delivered through both face-to-face and online classes:

2020-24: Hellenic Open University

School of Science and Technology

Online Undergraduate Module: Computer Network Fundamentals (*Analog Communications, Digital Communications, Signals and Systems, Computer Networks, Information Theory, Coding*)

2009-today: University of Peloponnese

Department of Informatics and Telecommunications

Undergraduate Courses: Digital Communications, Satellite Communications, Information Theory and Coding, Simulation of Telecommunications Systems, Digital Logic Design, Analog Electronics, Signals and Systems, C Programming Language

Postgraduate Courses: Digital Communications, Information Theory, Equalizers, Signal Processing for Communications, Satellite Communications

2017-19: Hellenic Open University

School of Science and Technology

Undergraduate Module: Digital Systems (*Design Logic, Computer Architecture, Microprocessors, Assembly*)

2007-09: University of Peloponnese

Department of Telecommunications, Science and Technology

Undergraduate Courses: Communications II, Satellite Communications

2006-07: University of Athens

Department of Physics

Postgraduate Course: Mobile Communications

PHD SUPERVISION

- ✦ **2020-24:** Dr. P. Argyrakis, “Time-series processing techniques for satellite positioning systems”.
- ✦ **2015-20:** Dr. G. Karatza, “Mathematical methods for evaluating the performance of next-generation wireless networks with relays”.
- ✦ **2020-today:** Mr. M. Bozis, “Algorithms for communications based on SDR devices”.
- ✦ **2021-today:** Mr. M. Batistatos, “Next-generation telecommunication networks based on UAVs”.

GUEST AND ASSOCIATE EDITOR

Served as an Associate Editor for various top-tier international journals:

- ✦ **2009-14:** IEEE Transactions on Wireless Communications
- ✦ **2008-14:** IETE Technical Review
- ✦ **2006-10:** AEÜ International Journal of Electronics & Communications (Elsevier)
- ✦ **2008-09:** Research Letters in Communications (Hindawi)
- ✦ **2009-11:** Journal of Electrical and Computer Engineering

Served as a guest editor for several journal special issues:

- S. K. Chronopoulos, V. Tritakis, V. Christofilakis, K. P. Peppas, **N. Sagias**, “Advanced Sensor Strategies and Developments Against Disasters and Random Phenomena,” in *MDPI Sensors*, 2024. (ISSN 1424-8220)
- **Nikos C. Sagias**, Ioannis D. Moscholios, Costas Psychalinos, Recent Advances Towards 5G/6G Networks and Applications in *AEÜ - International Journal of Electronics and Communications*, 2023. (ISSN: 1434-8411)
- Costas Psychalinos, **Nikos C. Sagias**, Ioannis D. Moscholios, "Recent Advances on Design of Analog/Digital Circuits for Contemporary Applications" in *Journal of Low Power Electronics and Applications (JLPEA)*, 2023. (ISSN 2079-9268).
- Ioannis D. Moscholios, **Nikos C. Sagias**, Panagiotis G. Sarigiannidis, “Modelling and Optimization of 5G Communication Networks,” in *PACET 2019*, Volos, Greece

REVIEWER

Serving as a reviewer for both IEEE and non-IEEE journals, including: IEEE Transactions on Communications, IEEE Transactions on Information Theory, IEEE Transactions on Wireless Communications, IEEE Transactions on Vehicular Technology, IEEE Transactions on Circuits and Systems I, IEEE Transactions on Green Communications and Networking, IEEE Communications Letters, IEEE Wireless Communications Letters, IEEE Signal Processing Letters, Electronics Letters, IET Communications, AEÜ International Journal of Electronics and Communications, EURASIP Journal on Wireless Communications and Networking, EURASIP Journal on Advances in Signal Processing, KICS Journal of Communications and Networks, Wireless Personal Communications, Journal of the Franklin Institute

A verified list can be found in Web of Science: <https://bit.ly/Sagias-WoS>

TECHNICAL PROGRAM COMITTEE

Organizing Committees

- ✦ PAnhellenic Conference on Electronics & Telecommunications (PACET '19, '22, '24)
- ✦ ICT: Bridging An Ever-Shifting Digital Divide (FITCE '11)

Technical Program Committees

- ✦ IEEE International Conference on Communications (ICC'10, '11, '12, '13, '15, '18)
- ✦ IEEE Global Telecommunications Conference (GLOBECOM'07 '08 '17 '18 '19)
- ✦ IEEE International Symposium on Personal, Indoor & Mobile Radio Communications (PIMRC'09 '18 '19 '20)
- ✦ IEEE Vehicular Technology Conference (VTC'09F, '09S, '17S '17F '18S '18F '24F)
- ✦ IEEE Wireless Communication & Networking Conference (WCNC '13 '14 '15 '16 '18 '20)
- ✦ Green and Sustainable 5G Wireless Networks (GRASNET) Workshop, 2016
- ✦ International Conference on Connected Vehicles & Expo (2015)
- ✦ International Symposium on Wireless Pervasive Computing (ISWPC'11, '12)
- ✦ International Conference on Wireless Communications & Signal Processing (WCSP '12)
- ✦ Australasian Telecommunications Networks & Applications Conference (ATNAC '11, '12)
- ✦ International Workshop on Multiple Access Communication (MACOM'09 '15)
- ✦ International Conference on Advances in Computing, Communications & Informatics (ICACCI '16)
- ✦ IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems 2015 (IEEE SPICES 2015)
- ✦ Mosharaka International Conf. on Communications, Signals & Coding (MIC-CSC'08)

RESEARCH PROJECTS EVALUATOR

Served as an evaluator for various National and European projects:

- ✦ National Research Fund Luxembourg: Project evaluation for CORE programme - S3, 2023
- ✦ 4th Call for HFRI Scholarships to PhD Candidates, Hellenic Foundation for Research and Innovation, 2022, Greece
- ✦ Basic Research Financing Action: Sub-action 2. Funding Projects in Leading-Edge Sectors – RRFQ: Basic Research Financing, Hellenic Foundation for Research and Innovation, 2023
- ✦ FNR Luxembourg AWARDS - Best PhD Thesis, 2022
- ✦ Two (2) textbooks, Greek Electronic Academic Books, Hellenic Academic Libraries Link, 2016
- ✦ Iraklitos II: 3 proposals – Greece, 2015
- ✦ Ministry of research & sciences – Serbian Democracy, 2012

PROFESSIONAL DISTINGUISHES

- ✦ Constantly earn a place among the top 2% of researchers in the worldwide rankings, with the highest impact in his research field. (<https://doi.org/10.17632/btchxktzyw.6>)
- ✦ Best conference paper award:
 - ? In the [IEEE Wireless Communications and Networking Conference \(WCNC\)](#), Istanbul, Turkey, May 2014, for the article “SOA nonlinear amplification: A promising fade mitigation technique for optical wireless systems,” by K. Yiannopoulos, N. C. Sagias, and A. C. Boucouvalas.
 - ? In the [3rd International Symposium on Communications, Control and Signal Processing \(ISCCSP\)](#), Malta, March 2008 for the article “On the Weibull distribution with arbitrary correlation,” coauthored by N. C. Sagias, P. T. Mathiopoulos, L. Merakos, and Z. G. Papadimitriou
- ✦ Best PhD thesis award, within the framework of *Ericsson Awards of Excellence*, by Ericsson Hellas, June 2005.
- ✦ Inclusion in Who's Who in Science and Engineering, 2006-2007.

CERTIFICATIONS

- ✦ “Certificate of training for collaborating teaching staff in open and distance education,” by *Center for Continuing Education and Lifelong Learning*, Hellenic Open University, Sept. 2022.
- ✦ “What Is Generative AI?,” by *LinkedIn Learning*, Aug. 2024.
- ✦ “Artificial Intelligence Fundamentals,” by *IBM SkillsBuild*, Sept. 2024.

ADMINISTRATIVE EXPERIENCE

Member of the Board of Directors of the University of Peloponnese (UoP), mainly related to budget control, expenses, public contracts, and procurements.

Served twice as the Chair of the Department of Informatics and Telecommunications (DIT) of UoP, with main responsibilities: The design of the undergraduate curriculum, the strategic plan, the annual procurements, and the external accreditation of the undergraduate curriculum.

Director of the Digital Communications and Systems Lab of DIT offering hands-on experience to students, conducting research, developing 5G SDR-based systems and running research and development projects.

2022-today

- ✦ Member of the Board of Directors of UoP
- ✦ Member of steering committee of strategic plan of DIT
- ✦ Member of steering committee of the undergraduate program of DIT
- ✦ Director of the Digital Communications and Systems Lab of DIT

2014-16 and 2018-20

- ✦ Chair of DIT
- ✦ Member of the Senate and of the Senate of Special Synthesis of UoP
- ✦ Member of the Deanery of the School of Economy, Management and Informatics of UoP
- ✦ General Assembly and General Assembly of Special Synthesis Chairman of DIT
- ✦ Member of steering committee of the postgraduate program studies “Advanced Telecommunication Systems and Networks” of DIT
- ✦ Member of steering committee of the postgraduate program studies “Space Science Technology and Applications” of DIT
- ✦ Member of steering committee of strategic plan of DIT
- ✦ In charge of accreditation of the undergraduate program of DIT

2013-14

- ✦ Member of the General Assembly and General Assembly of Special Synthesis of DIT
- ✦ Representative for ERASMUS program of DIT
- ✦ Member of the committee for open international public tender for the Students’ Feeding Unit of DIT
- ✦ Member of steering committee of the Program Studies of DIT

2009-13

- ✘ Member of the General Assembly and General Assembly of Special Synthesis of UoP
- ✘ Member of the election committee of the department head of the Department of Telecommunications, Science and Technology (DTST)
- ✘ Member substitute to the Council of DTST
- ✘ Member of the Scholars Committee of DTST
- ✘ Member of the Evaluation Committee of Adjunct Lecturers of DTST
- ✘ Member of the committee for Traineeship of DTST
- ✘ Representative for ERASMUS program of DTST
- ✘ Member of the committee for open international public tender for the Students' Feeding Unit of DTST
- ✘ Member of the selection committee of DTST

PROFESSIONAL MEMBERSHIPS

- ✘ Senior Member of the Institute of Electrical & Electronics Engineers (IEEE)
- ✘ Member of the IEEE Communications Society (ComSoc)
- ✘ Member of the Greek Physicist Association

CITATIONS

Received more than 3000 and 4000 citations in SCOPUS and Google Scholar, respectively:

SCOPUS (<https://bit.ly/Sagias-SCOPUS>)

- Citations: 3115
- Cross-citations: 2728
- h-index: 27

Google Scholar (<https://bit.ly/Sagias-GOScholar>)

- Citations: 4264
- h-index: 31

Current status can be found here: <https://telecom.uop.gr/sagias/publications/citations-overview>

REFERENCE LETTERS

Reference letters can be provided upon request by:

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Prof. Athanasios Katsis

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Department of Social and Education Policy

University of the Peloponnese

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PUBLISHED RESEARCH WORK

One hundred twenty-five (125) papers have been published in international journals and conferences, and two (2) book chapters on probability and communications. The publications' list follows includes top-tier journals, such as the IEEE Transactions on Information Theory, the IEEE Transactions on Communications, the IEEE Transactions on Wireless Communications the IEEE Communications Letters, and the Electronics Letters.

A part of published record has been presented in world recognized conferences such as the IEEE GLOBECOM (IEEE Global Communications Conference), the IEEE ICC (IEEE International Conference on Communications) and the IEEE WCNC (IEEE Wireless Communications and Networking Conference).

Full publication list in SCOPUS: <https://bit.ly/Sagias-GOScholar>

A) Journal Articles

- [J-1] K. Yiannopoulos and **N. C. Sagi**s, “BEP evaluation of 5G LDPC codes in a pre-amplified optical PPM receiver,” *Physical Communication*, vol. 62, pp. 102255, Feb. 2024.
- [J-2] K. D. Gazouleas, **N. C. Sagi**s, M. Batistatos, and K. P. Peppas, “A new family of Nyquist pulses with improved performance,” *IEEE Access*, vol. 11, pp. 144676-144695, 2023.
- [J-3] K. Yiannopoulos, **N. C. Sagi**s, and A. C. Boucouvalas, “Error rates of arbitrary order optical wireless pulse-position modulation: An efficient approach,” *Physical Communication*, vol. 53, Oct. 2022.
- [J-4] A. Moshou, P. Argyrakis, A. Konstantaras, A.-C. Daverona, and **N. C. Sagi**s, “Characteristics of recent aftershocks sequences (2014, 2015, 2018) derived from new seismological and geodetic data on the Ionian Islands, Greece,” *MDPI Data*, vol. 6, no. 2, Jan. 2021.
- [J-5] P. K. Argyrakis, A. Ganas, S. Valkaniotis, V. Tsioumas, **N. C. Sagi**s, and B. Psiloglou, “Anthropogenically induced subsidence in Thessaly, central Greece: New evidence from GNSS data,” *Natural Hazards*, Apr. 2020.
- [J-6] K. Yiannopoulos, **N. C. Sagi**s, A. C. Boucouvalas, “Average error probability of an optically pre-amplified pulse-position-modulation multichannel receiver under Malaga-*M* fading,” *Applied Sciences*, vol. 10, no. 3, pp. 1141, Feb. 2020. (Special Issue: "Applications of Semiconductor Optical Amplifiers II")
- [J-7] K. Yiannopoulos, **N. C. Sagi**s, A. C. Boucouvalas, “On the photon counting error probability and its application in optical wireless communications,” *Physical Communication*, vol. 36, Oct. 2019.
- [J-8] G. P. Karatza, K. P. Peppas, **N. C. Sagi**s, G. V. Tsoulos, “Unified ergodic capacity expressions for AF dual-hop systems with hardware impairments,” *IEEE Wireless Communications Letters*, vol. 23, no. 6, pp. 1057-1060, June 2019.
- [J-9] A. C. Boucouvalas, **N. C. Sagi**s, and K. Yiannopoulos, “Accurate evaluation of the average probability of error of pulse position modulation in amplified optical wireless communications under turbulence,” *Applied Sciences*, vol. 9, no. 4, pp. 749, Feb. 2019.
- [J-10] P. Koutsandrias, G. Tsoulos, G. Athanasiadou, D. Zarbouti, and **N. Sagi**s, “Nanosatellites,” *Pelopos*, vol. 2, no. 2, pp. 7-29, Dec. 2018.
- [J-11] I. D. Moscholios, V. G. Vassilakis, **N. C. Sagi**s, and M. D. Logothetis, “On channel sharing policies in LEO mobile satellite systems,” *IEEE Transactions on Aerospace and Electronic Systems*, vol. 54, no. 4, pp. 1628-1640, Aug. 2018.
- [J-12] G. P. Karatza, K. P. Peppas, and **N. C. Sagi**s, “Multi-destination cooperative systems under co-channel interference,” *IEEE Transactions on Vehicular Technology*, 2018, vol. 67, no. 9, pp. 8411-8421, Sept. 2018.
- [J-13] I. D. Moscholios, V. G. Vassilakis, P. G. Sarigiannidis, **N. C. Sagi**s, and M. D. Logothetis, “An analytical framework in LEO mobile satellite systems servicing batched Poisson traffic,” *IET Communications*, vol. 12, no. 1, pp. 18-25, Jan. 2018.
- [J-14] K. Yiannopoulos, **N. C. Sagi**s, A. C. Boucouvalas, and K. Peppas, “Optimal combining for optical wireless systems with amplification: The χ^2 noise regime,” *IEEE Photonics Technology Letters*, vol. 30, no. 1, pp. 119-122, Jan. 2018.

- [J-15] N. C. Sagiass and R. K. Mallik, "On the statistics of the error propagation effect of binary differential phase-shift keying," *IEEE Wireless Communications Letters*, vol. 6, no. 6, pp. 718-721, Dec. 2017.
- [J-16] K. Peppas, A. C. Boucouvalas, Z. Ghassemlooy, M.-A. Khalighi, K. Yiannopoulos, and N. C. Sagiass, "Semiconductor optical amplifiers for underwater optical wireless communications," *IET Optoelectronics*, vol. 11, no. 1, pp. 15-19, Feb. 2017.
- [J-17] K. Peppas, N. C. Sagiass, and A. Maras, "Physical layer security for multiple-antenna systems: A unified approach," *IEEE Transactions on Communications*, vol. 64, no. 1, pp. 314-328, Jan. 2016.
- [J-18] N. C. Sagiass, A. C. Boucouvalas, K. Yiannopoulos, M. Uysal, and Z. Ghassemlooy, "Optimal combiners in pre-amplified optical wireless systems under medium-to-strong atmospheric turbulence," *Image Processing & Communications*, vol. 21, no. 1, pp. 25-34, Jan. 2016.
- [J-19] K. Yiannopoulos, N. C. Sagiass, and A. C. Boucouvalas, "Semiconductor optical amplifiers in negative-exponential fading: Regenerators and pre-amplifiers," *IET Optoelectronics*, vol. 9, no. 5, pp. 249-256, Oct. 2015.
- [J-20] K. Yiannopoulos, N. C. Sagiass, and A. C. Boucouvalas, "On the performance of semiconductor optical amplifier-assisted outdoor optical wireless links," *IEEE Journal on Selected Areas in Communications*, vol. 33, no. 9, pp. 1869-1876, Sept. 2015.
- [J-21] N. C. Sagiass, S. Papaharalabos, and P. T. Mathiopoulos, "Cooperative DVB-SH satellite broadcasting systems with rotated signal constellations," *China Communications*, vol. 12, no. 6, pp. 59-72, June 2015.
- [J-22] N. D. Tselikas, E. A. Kosmatos, and N. C. Sagiass, "Packet loss optimization applying handoff algorithms in high-mobility radio-over-fiber networks: A mathematical analysis," *The Mediterranean Journal of Computers and Networks*, vol. 11, no. 2, pp. 390-399, 2015.
- [J-23] N. C. Sagiass, "On the ASEP of decode-and-forward dual-hop networks with pilot-symbol assisted M-PSK," *IEEE Transactions on Communications*, vol. 62, no. 2, pp. 510-521, February 2014.
- [J-24] K. Yiannopoulos, N. C. Sagiass, and A. C. Boucouvalas, "Fade mitigation based on semiconductor optical amplifiers," *IEEE/OSA Journal of Lightwave Technology*, vol. 31, no. 23, pp. 3621-3630 December 2013.
- [J-25] C. K. Datsikas, K. P. Peppas, N. C. Sagiass, and G. S. Tombras, "Serial relaying communications over generalized-gamma fading channels," *Wireless Communications and Mobile Computing*, vol. 12, no. 13, pp. 1191-1202, September 2012.
- [J-26] R. K. Mallik and N. C. Sagiass, "Distribution of inner product of complex Gaussian random vectors and its applications," *IEEE Transactions on Communications*, vol. 59, no. 12, pp. 3353-3362, December 2011.
- [J-27] K. P. Peppas, C. K. Datsikas, N. C. Sagiass, and G. S. Tombras, "Dual-hop MIMO relay systems over spatially correlated Nakagami- m fading channels," *IET Communications*, vol. 5, no. 15, pp. 2106-2115, October 2011.
- [J-28] P. S. Bithas, N. C. Sagiass, and R. K. Mallik, "On the sum of Kappa stochastic variates and applications to equal-gain combining," *IEEE Transactions on Communications*, vol. 59, no. 9, pp. 2434-2442, September 2011.
- [J-29] N. C. Sagiass, F. I. Lazarakis, A. A. Alexandridis, K. P. Dangakis, and G. S. Tombras, "Higher order capacity statistics of diversity receivers," *Wireless Personal Communications*, vol. 56, no. 4, pp. 649-668, 2011.

- [J-30] P. S. Bithas, G. P. Efthymoglou, and N. C. **Sagias**, "Spectral efficiency of adaptive transmission and selection diversity on generalized fading channels," *IET Communications*, vol. 4, no. 17, pp. 2058-2064, Nov. 2010.
- [J-31] C. K. Datsikas, K. P. Peppas, N. C. **Sagias**, and G. S. Tombras, "Serial free-space optical relaying communications over gamma-gamma atmospheric turbulence channels," *Wireless Journal of Optical Networking*, vol. 2, no. 8, pp. 576-586, 2010.
- [J-32] N. C. **Sagias**, R. K. Mallik, G. S. Tombras, "Error rate performance of multilevel signals with coherent detection," *IEEE Transactions on Communications*, vol. 58, no. 8, pp. 2188-2192, August 2010.
- [J-33] G. C. Alexandropoulos, N. C. **Sagias**, and P. T. Mathiopoulos, "Switch-and-examine diversity over arbitrary correlated Nakagami- m fading channels," *IEEE Transactions on Vehicular Technology*, vol. 59, no. 4, pp. 2080-2087, May 2010.
- [J-34] Z. G. Papadimitriou, P. T. Mathiopoulos, and N. C. **Sagias**, "The trivariate and quadrivariate Weibull fading distributions with arbitrary correlation and their applications to diversity reception," *IEEE Transactions on Communications*, vol. 57, no. 11, pp. 3230-3234, November 2009.
- [J-35] D. Triantafyllopoulou, N. Passas, L. Merakos, N. C. **Sagias**, and P. T. Mathiopoulos, "E-CLEMA: A cross-layer design for improved quality of service in mobile WiMAX networks," *Wireless Communications and Mobile Computing*, vol. 9, no. 9, pp. 1274-1286, November 2009.
- [J-36] P. S. Bithas, N. C. **Sagias**, and P. T. Mathiopoulos, "The bivariate generalized- K (K_G) distribution and its application to diversity receivers," *IEEE Transactions on Communications*, vol. 59, no. 9, September 2009.
- [J-37] K. Peppas and N. C. **Sagias**, "A trivariate Nakagami- m distribution with arbitrary covariance matrix and applications to generalized selection diversity receivers," *IEEE Transactions on Communications*, vol. 59, no. 7, July 2009.
- [J-38] G. C. Alexandropoulos, N. C. **Sagias**, F. I. Lazarakis, and K. Berberidis, "New results for the multivariate Nakagami- m fading model with arbitrary correlation matrix and applications," *IEEE Transactions on Wireless Communications*, vol. 8, no. 1, pp. 245-255, January 2009.
- [J-39] P. S. Bithas, N. C. **Sagias**, and T. A. Tsiftsis, "Performance analysis of dual-diversity receivers over correlated generalized Gamma fading channels," *IET Communications*, vol. 2, no. 1, pp. 174-178, January 2008.
- [J-40] C. K. Datsikas, N. C. **Sagias**, F. I. Lazarakis, and G. S. Tombras, "Outage analysis of decode-and-forward relaying over Nakagami- m fading channels," *IEEE Signal Processing Letters*, vol. 15, pp. 41-44, 2008.
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C) Book Chapters

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D) PhD Dissertation

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