

Journal Publications

- [J1] **“A Tractable Above-Threshold Model for the Design of DFB and Phase-Shifted DFB Lasers”**.
I. Orfanos, T. Sphicopoulos, A. Tsigopoulos, C. Caroubalos.
IEEE J. Quantum Electronics, vol. 27, No. 4, pp. 946-956, April 1991.
- [J2] **“Wavelength Tuning Analysis and Spectral Characteristics of Three-Section DBR Lasers”**.
A. Tsigopoulos, T. Sphicopoulos, I. Orfanos, S. Pantelis.
IEEE J. Quantum Electronics, vol. 28, No. 2, pp. 415-426, February 1992.
- [J3] **“Wavelength Tuning Analysis in Three-Electrode DFB Lasers”**.
T. Sphicopoulos, I. Orfanos, A. Tsigopoulos, C. Caroubalos.
International J. of Optoelectronics, vol. 8, No. 1, pp. 49-56, 1993.
- [J4] **“Comparison of different DFB laser models within the European COST 240 collaboration”**.
G. Morthier and R. Baets (University of Gent, IMEC, Belgium), A. Tsigopoulos and T. Sphicopoulos (University of Athens, Greece), C.F. Tsang and J.E. Carroll (University of Cambridge, UK), H. Wenzel (Humboldt University, Berlin, Germany), A. Mecozzi and A. Sapia (Fondazione Ugo Bordononi, Italy), P. Correc (France Telecom/CNET, France), S. Hansmann and H. Burkhardt (DBP, Germany), A. Paradisi and I. Montrosset (Politecnico di Torino, Italy), H. Olesen and H. E. Lassen (Tele Danmark Research, Denmark), R. Schatz (KTH-Stockholm, Sweden), H. Bissessur (Alcatel Alsthom Recherche, France).
IEE Proceedings-J. Optoelectronics, vol. 141, No. 2, pp. 82-88, April 1994.
- [J5] **“Numerical Modeling of Undercut Ridge VCSELs designed for CW operation at 1.3 μm : Design Optimization”**.
A. Tsigopoulos, V. Paschos, C. Caroubalos, P. Salet, J. Jacquet.
IEEE J. Quantum Electronics, vol. 33, No. 12, pp. 2221-2230, December 1997.
- [J6] **“Electrical Crosstalk Analysis due to Bondwire Capacitive Induced Coupling in OEIC Transceiver Modules”**.
A. Tsigopoulos, A. Chipouras, T. Sphicopoulos, D. Syvridis, M.E. Fafalios.
International J. of Optoelectronics, vol. 11, No. 4, pp. 239-246, 1997.
- [J7] **“Dissipative Solitons under the Action of the Third-Order Dispersion”**.
B.A. Malomed, D.J. Frantzeskakis, H.E. Nistazakis, A. Tsigopoulos, K. Hizanidis.
Physical Review E, vol. 60, No. 3, pp. 3324-3331, 1999.
- [J8] **“Dynamics of Pereira-Stenflo Solitons in the Presence of the Third-Order Dispersion”**.
B.A. Malomed, D.J. Frantzeskakis, H.E. Nistazakis, A. Tsigopoulos, K. Hizanidis.
Physica Scripta, vol. T82, pp. 36-41, 1999.
- [J9] **“Dynamics of anti-dark and dark solitons in (2+1)-dimensional generalized nonlinear Schrodinger equation”**.
H.E. Nistazakis, D.J. Frantzeskakis, P.S. Balourdos, A. Tsigopoulos, B.A. Malomed.
Physics Letters A, vol. 278, pp. 68-76, 18 December 2000.
- [J10] **“Calculation of radiation modes using the Lanczos-Fourier expansion”**.
N. F. Dasyras, I. G. Tigelis, A. Tsigopoulos, A. B. Manenkov.
Journal of the Optical Society of America, vol 21, No. 9, pp. 1740-1749, September 2004.
- [J11] **“Effects of Electromagnetic Radiation: Review of Existing Standards and Calculation Techniques”**.
A. Tsigopoulos, M.E. Fafalios, G. Vardoulas.
Nausivios Chora, Journal of Hellenic Naval Academy, vol. 1/2006, pp. 94-109.
- [J12] **“Performance and Reliability of Free Space Wireless Optical Systems”**.
C. Simatis, E. Karagianni, A. Tsigopoulos, M. Fafalios, H.E. Nistazakis, G.S. Tombras.
Nausivios Chora, Journal of Hellenic Naval Academy, ISSN: 1791-4469, vol. 1/2006, pp. 135-150.
- [J13] **“Capacity Estimation of Optical Wireless Communication Systems over Moderate to Strong Turbulence Channels”**.
H.E. Nistazakis, G.S. Tombras, A.D. Tsigopoulos, E.A. Karagianni, M.E. Fafalios.
Journal of Communications and Networks, vol. 11, No. 4, pp. 387 – 392, August 2009.
- [J14] **“Average Capacity of Optical Wireless Communication Systems over Atmospheric Turbulence Channels”**.
H.E. Nistazakis, E.A. Karagianni, A.D. Tsigopoulos, M.E. Fafalios, G.S. Tombras.
Special Issue of the IEEE Journal of Lightwave Technology, Vol. 27, No. 8, pp. 974-979, April 2009.
- [J15] **“Estimation of Outage Capacity for Free Space Optical Links over I-K and K Turbulent Channels”**.
H.E. Nistazakis, A.D. Tsigopoulos, M.P. Hantias, C.D. Psychogios, D. Marinos, C. Aidinis, G.S. Tombras.

Radioengineering, Special Issue towards EuCAP 2012: Emerging Materials, Methods, and Technologies in Antenna & Propagation, Vol. 20, No. 2, pp. 493-498, June 2011.

- [J16] **“Maximum Effective Bit Rate Estimation for Wireless Optical Communication Links with Time-Diversity Over Strong Turbulence Channels”**.
A.D. Tsigopoulos.
Nausivios Chora, Journal of Hellenic Naval Academy, vol. 4/2012, pp. 88-95.
- [J17] **“Probability of Fade Estimation for FSO Links with Time Dispersion and Turbulence Modelled with the Gamma-Gamma or the I-K Distribution”**.
G.K. Varotsos, A.N. Stassinakis, H.E. Nistazakis, A.D. Tsigopoulos, K.P. Peppas, C.J. Aidinis, G.S. Tombras.
OPTIK - International Journal for Light and Electron Optics, 2014, vol 125, pp. 7191-7197.
- [J18] **“Performance Study of Terrestrial Multi-Hop OFDM FSO Communication Systems with Pointing Errors Over Turbulence Channels”**.
H.E. Nistazakis, M.P. Ninos, A.D. Tsigopoulos, D.A. Zervos and G.S. Tombras.
Journal of Modern Optics, vol. 63, No. 14, pp. 1403-1413, 2016.
- [J19] **“BER Estimation of Dual-hop PSK OFDM RoFSO Communication System over K or NE Modeled Turbulence and Optical Fiber with Nonlinear Clipping Effect”**.
A.D. Tsigopoulos, M.P. Ninos, A.N. Stassinakis.
Nausivios Chora, Journal of Hellenic Naval Academy, ISSN: 1791-4469, vol. 5/2014, pp. B-17, 2014.
- [J20] **“New Performance Results for QAM OFDM RoFSO Over K and Exponentially Modeled Turbulence Channels”**.
H.E. Nistazakis, M.P. Ninos, A.N. Stassinakis, A.D. Tsigopoulos and G.S. Tombras.
Nausivios Chora, Journal of Hellenic Naval Academy, ISSN: 1791-4469, vol. 5/2014, pp. B-3, 2014.
- [J21] **“Analysis, Synchronization and Circuit Design of a 4D Hyperchaotic Hyperjerk System”**.
P.A. Daltzis, C.K. Volos, H.E. Nistazakis, A.D. Tsigopoulos and G.S. Tombras.
Open Access Computational Science Journal, MDPI AG - Computation, vol. 6, Issue 1, February 6, 2018, <https://doi.org/10.3390/computation6010014>.
- [J22] **“Reliability and Availability Study of Modern Indoor VLC Systems with eSSK Modulation”**.
A.N. Stassinakis, N.A. Androutsos and A.D. Tsigopoulos.
Nausivios Chora, Journal of Hellenic Naval Academy, vol. 7/2018, Part B, pp. B-3, 2018.
- [J23] **“Microstrip RFID Antenna Design at 5.1 GHz”**.
T.J. Korfiati, E.A. Karagianni, A.T. Arapoyianni, C.N. Vazouras, A.D. Tsigopoulos.
Nausivios Chora, Journal of Hellenic Naval Academy, vol. 7/2018, Part B, pp. B-49, 2018.
- [J24] **“Pre/Post Assessments Analysis in Training Electro-Technical Seafarers Experts”**.
E.A. Karagianni, E.P. Apostolopoulou, I.M. Prousalidis, I.K. Gyparis, A.D. Tsigopoulos, C.N. Vazouras, A.E. Tsiakla.
Journal of Shipping and Ocean Engineering, vol.9, No. 1, Jan.-Mar. 2019, (Serial Number 37), pp. 14-29.
- [J25] **“Underwater Optical Wireless Communications with Chromatic Dispersion and Time Jitter”**.
G.D. Roumelas, H.E. Nistazakis, A.N. Stassinakis, C.K. Volos and A.D. Tsigopoulos.
Open Access Computational Science Journal, MDPI AG - Computation, vol. 7, Issue 3, July 11, 2019. <https://doi.org/10.3390/computation7030035>.
- [J26] **“Time Jitter, Turbulence and Chromatic Dispersion in Underwater Optical Wireless Links”**.
G.D. Roumelas, H.E. Nistazakis, A.N. Stassinakis, G.K. Varotsos, A.D. Tsigopoulos, G.S. Tombras.
Open Access Computational Science Journal, MDPI AG - Technologies, vol. 8, Issue 1, December 22, 2019, <https://doi.org/10.3390/technologies8010003>.
- [J27] **“Experimental Performance Analysis of an Optical Communication Channel over Maritime Environment”**.
A. Lionis, K. Peppas, H.E. Nistazakis, A. D. Tsigopoulos, K. Cohn.
Open Access Computational Science Journal, MDPI AG - Electronics, vol. 9, Issue 7, July 9, 2020, <https://doi.org/10.3390/electronics9071109>.
- [J28] **“Design and Construction of a Drone with GPS Tracking, Collision Avoidance, Surveillance via Airborne Camera and Object Tracking”**.
Z. Gerostathis, G. Thomas, A. Tsigopoulos, K. Harissis, A. Stassinakis.
International Journal of Engineering Applied Sciences and Technology, vol. 5, Issue 3, ISSN No. 2455-2143, pp. 497-500, July 2020.
- [J29] **“Statistical Modeling of Received Signal Strength for an FSO Link Over Maritime Environment”**.
A. Lionis, K. Peppas, H.E. Nistazakis, A. D. Tsigopoulos, K. Cohn.

- Optics Communications, vol. 489, June 2021, <https://doi.org/10.1016/j.optcom.2021.126858>
- [J30] **“Design and Construction of a Bluetooth Controlled Obstacle Avoiding Vehicle”**.
K. Charisis, V. Sokratous, A. Tsigopoulos, A. Stassinakis.
International Journal of Engineering Applied Sciences and Technology, vol. 5, Issue 6, ISSN No. 2455-2143, pp. 8-11, October 2020.
- [J31] **“Experimental Model Development for the Attenuation Coefficient Estimation of Terrestrial Optical Wireless Lins over the Sea”**.
A.N. Stassinakis, G.A. Papavgeris, H.E. Nistazakis, A.D. Tsigopoulos, N.A. Androutsos and G.S. Tombras.
Open Access Computational Science Journal MDPI, AG – Telecom, vol. 2, Issue 1. pp. 93 – 107, March 2021, <https://doi.org/10.3390/telecom2010007>
- [J32] **“Using Machine Learning Algorithms for Accurate Received Optical Power Prediction of an FSO Link over Maritime Environment”**.
A. Lionis, K. Peppas, H.E. Nistazakis, A.D. Tsigopoulos, K. Cohn, A. Zagouras.
Open Access Computational Science Journal, MDPI AG - Photonics, vol. 8, Issue 6, June 10, 2021, <https://doi.org/10.3390/photonics8060212>.
- [J33] **“RSSI Probability Density Functions Comparison using Jensen-Shannon Divergence and Pearson Distribution”**.
A.Lionis, K. Peppas, H.E. Nistazakis, A. Tsigopoulos.
Open Access Computational Science Journal, MDPI AG - Technologies, vol. 9, Issue 2, April 8, 2021, <https://doi.org/10.3390/technologies9020026>.
- [J34] **“Time and Spatial Jitter Influence at the Performance of FSO Links with DF Relays and OC Diversity over Turbulence Channels”**.
P.J. Gripeos, H.E. Nistazakis, A.D. Tsigopoulos, V. Christofilakis and E. Roditi.
Open Access Computational Science Journal, MDPI AG - Photonics, vol. 8, Issue 8, August 7, 2021, <https://doi.org/10.3390/photonics8080318>.
- [J35] **“High Energy Laser Weapon Integration Issues for the Future Hellenic Frigate”**.
A. Lionis, A. Tsigopoulos.
Accepted for publication to Nausivios Chora, Journal of Hellenic Naval Academy, 2021”.
- [J36] **“Optical Turbulence Measurements and Modeling over Monterey Bay”**.
A. Lionis, G. Chaskakis, K. Cohn, J. Blau, K. Peppas, H.E. Nistazakis, A. Tsigopoulos.
Δημοσιεύθηκε στο περιοδικό Optics Communications:
<https://doi.org/10.1016/j.optcom.2022.128508>.
- [J37] **“An Application of Artificial Neural Networks to Estimate the Performance of High-Energy Laser Weapons in Maritime Environments”**.
A. Lionis, A. Tsigopoulos, K. Cohn.
Open Access Computational Science Journal, MDPI AG - Technologies, vol. 10, Issue 3, June 8, 2022, <https://doi.org/10.3390/technologies10030071>.
- [J39] **“Dispersive FSO Performance Estimation with Gaussian Pulses and Laplace Modeled Time Jitter”**.
P.J. Gripeos, D. Oreinos, D. Kriempardis, A.D. Tsigopoulos, E. Kapotis, A. Katsis, H.E. Nistazakis.
Open Access Computational Science Journal, MDPI AG - Computation, vol. 11, Issue 1, January 4, 2023, <https://doi.org/10.3390/computation11010006>.
- [J40] **“Experimental Machine Learning Approach for Optical Turbulence and FSO Outage Performance Modeling”**.
A. Lionis, A. Sklavounos, A. Stassinakis, K. Cohn, A.D. Tsigopoulos, K. Peppas, K. Aidnis, H.E. Nistazakis.
Open Access Computational Science Journal, MDPI AG - Electronics, vol. 12, Issue 3, January 18, 2023, <https://doi.org/10.3390/electronics12030506>.

Conference Proceedings

- [C1] **“Modeling Thermal Effects and Light vs. Current Characteristics of Long Wavelength Vertical-Cavity Surface-Emitting Semiconductor Lasers for CW operation above room temperature”**.
A. Tsigopoulos, V. Paschos.
“Circuits, Systems and Computers ‘96”, Hellenic Naval Academy, 15-17 July 1996, ISBN 960-8485-00-2 (vol. 1), Proceedings pp. 95-101.
- [C2] **“Electrical Crosstalk Analysis due to Bondwire Capacitive Induced Coupling in OEIC Transceiver Modules”**.
A. Tsigopoulos, A. Chipouras, T. Sphicopoulos, D. Syvridis, M.E. Fafalios.
“Circuits, Systems and Computers ‘96”, Hellenic Naval Academy, 15-17 July 1996, ISBN 960-8485-01-0 (vol. 2), Proceedings pp. 463-470.

- [C3] **“Numerical Modeling of Long Wavelength Vertical-Cavity Surface-Emitting Semiconductor Lasers. Part 1: Continuous-Wave Modeling”**.
A. Tsigopoulos, V. Paschos, P. Salet, J. Jacquet.
2nd GR-I International Conference on “New Laser Technologies and Applications”.
Ancient Olympia, Greece, June 1-4, 1997.
- [C4] **“Numerical Modeling of Long Wavelength Vertical-Cavity Surface-Emitting Semiconductor Lasers. Part 2: Transient Thermal Modeling”**.
A. Tsigopoulos, V. Paschos.
2nd GR-I International Conference on “New Laser Technologies and Applications”.
Ancient Olympia, Greece, June 1-4, 1997.
- [C5] **“Modeling of Complex-Coupled DFB Lasers for Optical Fiber Communications”**.
A. Tsigopoulos.
“Naval Technology for the 21st Century”, Hellenic Naval Academy, 29-30 June 1998, ISBN 960-8485-04-5, Proceedings pp. 273-281.
- [C6] **“Effects of Electromagnetic Radiation: Review of Existing Standards and Calculation Techniques”**.
N. Faros, M.E. Fafalios, A. Tsigopoulos, C. Vazouras, M. Sklavounou.
“Naval Technology for the 21st Century”, Hellenic Naval Academy, 29-30 June 1998, ISBN 960-8485-04-5, Proceedings pp. 233-245.
- [C7] **“Fiber Optic Acoustic Sensors”**.
A. Tsigopoulos, M.E. Fafalios.
Conference of Acoustic Technology '98, Hellenic Naval Academy, December 1998.
- [C8] **“Stable anti-dark and dark solitons in (2+1) dimensions”**.
H.E. Nistazakis, A. Tsigopoulos.
13th Panhellenic Conference/School: “Non Linear Dynamics: Multiplicity and Chaos”, Hania 17-28 July 2000.
- [C9] **“Μη γραμμική δυναμική σκοτεινών και αντισκοτεινών σολιτονίων σε (2+1) διαστάσεις”**.
Α. Τσιγκόπουλος, Ε.Ε. Νισαζάκης, Π.Σ. Μπαλούρδος, Δ.Ι. Φραντζεσκάκης, Β.Α. Μαλόμεδ.
13th Panhellenic Conference/School: “Non Linear Dynamics: Multiplicity and Chaos”, Hania 17-28 July 2000.
- [C10] **“Average Capacity of Wireless Optical Communication Systems over Gamma Gamma Atmospheric Turbulence Channels”**.
H.E. Nistazakis, G.S. Tombras, A.D. Tsigopoulos, E.A. Karagianni, M.E. Fafalios.
IEEE MTT-S International Microwave Symposium (IMS 2008), Atlanta, Georgia, June 15-20, 2008, *Proceedings 2008 IEEE MTT-S, Atlanta USA*, pp. 1561-1564, 2008.
- [C11] **“Average BER Estimation of Optical Wireless Communication Links Using OOK Over Turbulence Channels”**.
H.E. Nistazakis, G.S. Tombras, A.D. Tsigopoulos, E.A. Karagianni, M.E. Fafalios.
IET 2009 – Mosharaka International Conference on Communication, Propagation and Electronics (MIC-CPE 2009), ISBN: 978-9957-486-06-8, Amman, Jordan, February 5-8, 2009.
- [C12] **“Average and Outage Capacity Estimation of Optical Wireless Communication Systems over Weak Turbulence Channels”**.
H.E. Nistazakis, G.S. Tombras, A.D. Tsigopoulos, E.A. Karagianni, M.E. Fafalios.
IET 2009 – Mosharaka International Conference on Communication, Propagation and Electronics (MIC-CPE 2009), ISBN: 978-9957-486-06-8, Amman, Jordan, February 5-8, 2009.
- [C13] **“A Simple Method for the Multipath Effect Measurement in Highly Dispersive Wireless Optical Channels”**.
D. Marinos, H.E. Nistazakis, C. Aidinis, G.S. Tombras, M. Tsilis, A.D. Tsigopoulos, M.E. Fafalios.
3rd International Conference on Experiments/Process/System Modeling/Simulation & Optimization, 3rd IC-EpsMsO, Athens, 8-11 July, 2009, ISBN: 978-960-98941-1-1, vol. I, pp. 57-60.
- [C14] **“Estimation of Capacity Bounds of Free Space Optical Channels Under Strong Turbulence Conditions”**.
H.E. Nistazakis, D. Marinos, M. Hantias, C. Aidinis, M. Tsilis, G.S. Tombras, A.D. Tsigopoulos, M.E. Fafalios.
MIKON-2010 International Conference on Microwave, Radar and Wireless Communications, Vilnius, Lithuania, June 14-16, 2010, ISBN: 978-9955-690-20-7, vol. 2, pp. 403-405.
- [C15] **“Average Capacity Estimation of Hybrid FSO/MMW Wireless Communication Systems”**.
H.E. Nistazakis, G.S. Tombras, M.P. Hantias, A.D. Tsigopoulos, M.E. Fafalios.
IET – Mosharaka International Conference on Communication, Propagation and Electronics (MIC-CPE 2010), Amman, Jordan, March 5-7, 2010, ISBN: 978 - 9957- 486 - 10 – 5, pp. 24-29.
- [C16] **“Manchester Coding Transmitter for Wireless Optical Communications based on TMS320C1646T DSP”**.

- D. Marinos, G. Alexandratos, H.E. Nistazakis, C. Aidinis, G.S. Tombras, M. Tsilis, A.D. Tsigopoulos, M.E. Fafalios
4th International Conference from Scientific Computing to Computational Engineering, 4th IC-SCCE, Athens, 7-10 July, 2010, ISBN: 978-960-98941-5-9, vol. I, pp. 364-370.
- [C17] **“Bayesian Estimation of the Performance of Gamma Gamma Free Space Optical Channels”**.
H.E. Nistazakis, A.D. Tsigopoulos, M.P. Haniyas, A. Katsis, G.S. Tombras.
4th International Conference on Experiments/Process/System Modeling/Simulation/Optimization 4th IC-EpsMsO, Athens, 6-9 July, 2011, ISBN: 978-960-98941-7-3, vol. I, pp. 103-113.
- [C18] **“Wavelength Diversity for Free Space Optical Systems: Performance Evaluation over Log Normal Turbulence Channels”**.
V. Xarcha, A.N. Stassinakis, H.E. Nistazakis, A. Tsigopoulos, G.P. Latsas, M.P. Haniyas, G.S. Tombras.
MIKON-2012, 19th International Conference on Microwave, Radar and Wireless Communications, Warsaw, Poland, May 21-23, 2012, ISBN: 978-1-61284-1436-8, vol 2, pp. 678-683.
- [C19] **“Evaluation of Performance Metrics for Free Space Optical Links with Time-Diversity Modeled with the I-K Distribution”**.
A. Stassinakis, V. Xarcha, H.E. Nistazakis, A.D. Tsigopoulos, G.S. Tombras.
5th International Conference from Scientific Computing to Computational Engineering 5th IC-SCCE, Athens, 4-7 July, 2012, ISBN: 978-618-80115-1-9, vol. I, pp. 211-218.
- [C20] **“Gaussian Chirped Pulse Propagation in Wireless Optical Links with Dispersion: Probability of Fade Estimation for K-Distribution Modelled Turbulence Channels”**.
A.N. Stassinakis, H.E. Nistazakis, K.P. Peppas, A.D. Tsigopoulos, M.E. Fafalios, G.S. Tombras.
5th International Conference on Experiments/Process/System Modeling/Simulation/Optimization 5th IC-EpsMsO, Athens, 3-6 July, 2013, ISBN: 978-618-80527-1-0, vol. 1, pp. 254-261, 2013.
- [C21] **“Bit Rate Depce Estimation for FSO Links with Chirped Dispersive Gaussian and Hyperbolic Secant Pulses”**.
A.N. Stassinakis, G.K. Varotsos, H.E. Nistazakis, A.D. Tsigopoulos, G.G. Chronopoulos, G.S. Tombras.
5th International Conference on Experiments/Process/System Modeling/Simulation/Optimization 5th IC-EpsMsO, Athens, 3-6 July, 2013, ISBN: 978-618-80527-1-0, vol. 1, pp. 54-61, 2013.
- [C22] **“On the Availability of Negative Exponential Turbulent FSO Links with Time Dispersion”**.
G.K. Varotsos, H.E. Nistazakis, A.D. Tsigopoulos, K.P. Peppas, C.J. Aidinis and G.S. Tombras.
6th International Conference from Scientific Computing to Computational Engineering 6th IC-SCCE, Athens, 9-12 July, 2014, ISBN: 978-618-80527-4-1, vol. II, pp. 325-332, 2014.
- [C23] **“Experimental and Theoretical Bit Rate Estimation of Turbulent FSO Link Over the Maritime Area At Piraeus Port”**.
M.N. Kampouraki, A.N. Stassinakis, H.E. Nistazakis, G.G. Chronopoulos, A.D. Tsigopoulos, M.E. Fafalios and G.S. Tombras.
6th International Conference from Scientific Computing to Computational Engineering 6th IC-SCCE, Athens, 9-12 July, 2014, ISBN: 978-618-80527-3-4, vol. I, pp. 176-183, 2014.
- [C24] **“Underwater Optical Wireless Communications: Possibilities - Disadvantages and Possible Solutions”**.
L.K. Gkoura, H.E. Nistazakis, A. Vavoulas, A.D. Tsigopoulos and G.S. Tombras.
6th International Conference from Scientific Computing to Computational Engineering 6th IC-SCCE, Athens, 9-12 July, 2014, ISBN: 978-618-80527-4-1, vol. II, pp. 511-518, 2014.
- [C25] **“An Experimental Setup for BER Estimation Performance of Indoor Free Space Optical Communication Systems”**.
E.G. Kochronas, H.E. Nistazakis, A.D. Tsigopoulos, C.J. Aidinis and G.S. Tombras.
6th International Conference from Scientific Computing to Computational Engineering 6th IC-SCCE, Athens, 9-12 July, 2014, ISBN: 978-618-80527-3-4, vol. I, pp. 48-54, 2014.
- [C26] **“OFDM Wireless Optical Communication Systems with Serial Relays over Exponentially Modeled Turbulence Channels”**.
A.N. Stassinakis, H.E. Nistazakis, A.D. Tsigopoulos, and G.S. Tombras.
Mosharaka 1st International Conference on Electrical Engineering and Applications (MIC-Electrical 2014), Athens, Greece, April 4-6, 2014, ISSN: 2227-331X, pp. 48-53.
- [C27] **“Analytical Models for the Phase Shift of the Permittivity and Permeability for Magneto-Electric Lattice in Metamaterials”**.

- H.M. Katiniotis, I.S. Karanasiou, E.A. Karagianni, H.E. Nistazakis, A.D. Tsigopoulos, and M.E. Fafalios.
Mosharaka 1st International Conference on Electrical Engineering and Applications (MIC-Electrical 2014), Athens, Greece, April 4-6, 2014, ISSN: 2227-331X, pp. 42-47.
- [C28] **“BER Estimation of Dual Hop QAM OFDM RoFSO Over Exponentially Modeled Turbulence and Optical Fiber with Nonlinear Clipping”**.
A.N. Stassinakis, M.P. Ninos, H.E. Nistazakis, S.S. Muhammad, A.D. Tsigopoulos, G.S. Tombras.
6th International Conference from Scientific Computing to Computational Engineering 6th IC-SCCE, Athens, 9-12 July, 2014, ISBN: 978-618-80527-3-4, vol. I, pp. 78-84, 2014.
- [C29] **“K Modeled Turbulence and Nonlinear Clipping for QAM OFDM with FSO and Fiber Serially Linked”**.
H.E. Nistazakis, A.N. Stassinakis, G.S. Tombras, S.S. Muhammad, A.D. Tsigopoulos.
20th International Conference on Microwaves, Radar, and Wireless Communications, (MIKON 2014), June 16-18, Gdansk, Poland, 2014.
- [C30] **“Average and Outage Capacity Estimation for Terrestrial FSO Links Over Gamma Modeled Turbulence Channels”**.
A.N. Stassinakis, H.E. Nistazakis, A.D. Tsigopoulos and G.S. Tombras.
Mosharaka 2nd International Conference on Electrical Engineering and Applications (MIC-Electrical 2015), Athens, Greece, April 3-5, 2015, ISSN: 2227-331X.
- [C31] **“BER Estimation For a PSK OFDM RoFSO Serially Relayed Link With Pointing Errors Over Gamma Gamma Turbulence Channels”**.
M.P. Ninos, H.E. Nistazakis, A.N. Stassinakis, A.D. Tsigopoulos and G.S. Tombras.
Mosharaka 2nd International Conference on Electrical Engineering and Applications (MIC-Electrical 2015), Athens, Greece, April 3-5, 2015, ISSN: 2227-331X.
- [C32] **“Comparison between Experimental and Theoretical Performance Results for Optical Wireless Links over Atmospheric Turbulence Channels Modeled with the Gamma Distribution”**.
S.H. Amar, H.E. Nistazakis, A.D. Tsigopoulos, E.A. Karagianni, M.E. Fafalios and G.S. Tombras.
6th International Conference on Experiments/Process/System/Modeling/Simulation/Optimization 6th IC-EpsMsO, Athens, 8-11 July, 2015, pp. 116-124.
- [C33] **“Outage Probability Estimation of a Serially Relayed OFDM RoFSO Links Over Exponentially Modeled Turbulence Channels with Spatial Jitter”**.
M.P. Ninos, H.E. Nistazakis, A.D. Tsigopoulos, G.P. Latsas, G.S. Tombras.
6th International Conference on Experiments/Process/System/Modeling/Simulation/Optimization 6th IC-EpsMsO, Athens, 8-11 July, 2015, pp. 338-345.
- [C34] **“Performance Estimation for Hybrid FSO/MMW Communication Systems under Gamma Modeled Turbulence Channels”**.
N. Pontikis, H.E. Nistazakis, G.P. Latsas, A.D. Tsigopoulos, G.S. Tombras.
6th International Conference on Experiments/Process/System/Modeling/Simulation/Optimization 6th IC-EpsMsO, Athens, 8-11 July, 2015, pp. 352-358.
- [C35] **“BER Estimation for a PSK OFDM Optical Wireless Link with Relays over Gamma Modeled Atmospheric Turbulence Channels”**.
D.A. Zervos, H.E. Nistazakis, G.P. Latsas, A.D. Tsigopoulos, G.S. Tombras.
6th International Conference on Experiments/Process/System/Modeling/Simulation/Optimization 6th IC-EpsMsO, Athens, 8-11 July, 2015, pp. 89-95.
- [C36] **“Outage Capacity Estimation of FSO Links with Pointing Errors Over Gamma Turbulence Channels”**.
Stassinakis, H.E. Nistazakis, G. Varotsos, G. Tombras, A. Tsigopoulos, V. Christofilakis, published in the IEEE MOCAS Conference Proceedings in 12-14 May 2016, Thessaloniki, Greece and awarded the title of best paper on Communication Systems.
- [C37] **“Maximally Flat Microstrip Band-Pass Filter Design for UWB Applications Using Step Impedance Techniques and Quarter-Wave Structures”**.
S.G. Zisis, E.A. Karagianni, H.E. Nistazakis, C.N. Vazouras, A.D. Tsigopoulos and M.E. Fafalios.
7th International Conference from “Scientific Computing to Computational Engineering” 7th IC-SCCE, Athens, 6-9 July, 2016, Vol. II, pp. 241-247.

- [C38] **“Optical Wireless Communication Links with Time Diversity over Log-Normal Turbulence Channels with Time Dispersion and Spatial Jitter”**.
G.K. Varotsos, H.E. Nistazakis, E.A. Katagianni, A.D. Tsigopoulos and G.S. Tombras.
7th International Conference from “Scientific Computing to Computational Engineering”
7th IC-SCCE, Athens, 6-9 July, 2016, Vol. II, pp. 322-328.
- [C39] **“DF Relayed FSO Communication Systems with Time Dispersion over Gamma Gamma Turbulence and Misalignment”**.
G.K. Varotsos, H.E. Nistazakis, M.P. Ninos, G.S. Tombras, A.D. Tsigopoulos, Ch.K. Volos.
6th International Conference on Modern Circuits and Systems Technologies (MOCASST), 4-6 May 2017, DOI: [10.1109/MOCASST.2017.7937688](https://doi.org/10.1109/MOCASST.2017.7937688).
- [C40] **“Influence Estimation of Vanadium dioxide Optical Filters at the Performance of Visible Light Communication Systems”**.
D.K. Manousou, A.N. Stassinakis, H.E. Nistazakis, G.S. Tombras, Ch.K. Volos, A.D. Tsigopoulos.
7th International Conference on Modern Circuits and Systems Technologies (MOCASST), 7-9 May 2018, DOI: [10.1109/MOCASST.2018.8376653](https://doi.org/10.1109/MOCASST.2018.8376653).
- [C41] **“Experimental Accuracy Investigation for Irradiance Fluctuations of FSO Links Modeled by Gamma Distribution”**.
D. Bourazani, A.N. Stassinakis, H.E. Nistazakis, G.K. Varotsos, A.D. Tsigopoulos and G.S. Tombras.
8th International Conference from “Scientific Computing to Computational Engineering”
8th IC-SCCE, Athens, 4-7 July, 2018.
- [C42] **“DF Relayed QAM or DBPSK FSO Links with Generalized Pointing Errors over Mixture Gamma Turbulence Channels”**.
N.A. Androutsos, H.E. Nistazakis, A.N. Stassinakis, A.D. Tsigopoulos and G.S. Tombras.
8th International Conference on Modern Circuits and Systems Technologies (MOCASST), 13-15 May 2019, Thessaloniki, Greece.
- [C43] **“Outage Performance Study of a Multi-Hop AF Relay System Approximated by a Dual Hop Scheme Over Rician Fading Wireless Channels”**.
K.N. Manganaris, N.A. Androutsos, A.N. Stassinakis, A.D. Tsigopoulos, A. Tzanakaki, H.E. Nistazakis.
8th International Conference on Experiments / Process / System Modeling / Simulation / Optimization (8th IC-EPSMSO), Athens, Greece, 3 - 6 July, 2019.
- [C44] **“Non Line of Sight Underwater Optical Wireless Communication Systems”**.
S. Menounou, A.N. Stassinakis, A.D. Tsigopoulos, H.E. Nistazakis, A. Tzanakaki and G.S. Tombras.
International Conference on Experiments / Process / System Modeling / Simulation / Optimization (8th IC-EPSMSO), Athens, Greece, 3 - 6 July, 2019.
- [C45] **“Average BER Estimation of Retroreflective Transdermal Optical Wireless Links with Diversity, Attenuation and Spatial Jitter”**.
G.K. Varotsos, H.E. Nistazakis, K. Aidinis, F. Jaber, K. K. Mujeeb Rahman, A.D. Tsigopoulos, V. Christofilakis.
9th International Conference on Modern Circuits and Systems Technologies (MOCASST), Bremen, Germany, 7-9 September 2020, pp. 1-4, doi: [10.1109/MOCASST49295.2020.9200301](https://doi.org/10.1109/MOCASST49295.2020.9200301).
- [C46] **“An Empirical Expression for Attenuation Coefficient Evaluation of FSO Links During Night-Time Over Maritime Area of Piraeus Port in Greece”**.
A.N. Stassinakis, H.E. Nistazakis, E.V. Chatzikontis, G.D. Roumelas, G.S. Tombras, A.D. Tsigopoulos and G. Mkrtrchian.
9th International Conference on Modern Circuits and Systems Technologies (MOCASST), Bremen, Germany, 7-9 September 2020, pp. 1-4, doi: [10.1109/MOCASST49295.2020.9200271](https://doi.org/10.1109/MOCASST49295.2020.9200271).
- [C47] **“DF Relayed OOK and PAM FSO Links with Turbulence and Time Jitter”**.
P. Gripeos, H.E. Nistazakis, G. Roumelas, V. Christofilakis, A.D. Tsigopoulos and G.S. Tombras.
International Conference on Broadband Communications for Next Generation Networks and Multimedia Applications (CoBCom), Graz, Austria, 7-9 July 2020, pp. 1-7, doi: [10.1109/CoBCom49975.2020.9174183](https://doi.org/10.1109/CoBCom49975.2020.9174183).
- [C48] **“ARESIBO HORIZON 2020 EUROPEAN RESEARCH PROJECT – ENRICHED SITUATION AWARENESS FOR BORDER SURVEILLANCE”**.
K. Charisis, A. Tsigopoulos, S. Kintzios, V. Papataxiarchis.
International Scientific Conference “Strategies XXI – Technologies – Military Applications – Simulation and Resources”, Bucharest, Romania, vol. 17, No. 1, March 18-19, 2021, doi: [10.53477/2668-2028-21-31](https://doi.org/10.53477/2668-2028-21-31).
- [C49] **“Hellenic Naval Academy and the Educational Tug of War - Traditional and Online Education in the Era of the Pandemic Crisis”**.

- E. Rofousou, S. Kalligeros, A. Tsapalis, A. Tsigopoulos, A. Vantarakis.
International Symposium of Military Academies (ISOMA 2021 "Preparing Military Leaders to Effectively Resolve 21st Century Security Challenges", Norwich University, Vermont, USA, October 4-8, 2021.
- [C50] **"Block Error Performance of PAM or PPM SIMO FSO Links Over Strong Turbulence Channels"**.
N.A. Androutsos, H.E. Nistazakis, A.N. Stassinakis, E.V. Chatzikontis, A.D. Tsigopoulos, E. Roditi, G.S. Tombras.
MOCASST 10th International Conference on Modern Circuits and Systems Technologies 2021, pp. 1-4, DOI: [10.1109/MOCASST52088.2021.9493398](https://doi.org/10.1109/MOCASST52088.2021.9493398).
- [C51] **"Experimental Attenuation Coefficient Estimation for FSO Links Over Maritime Area During Summer Time"**.
G.A. Papavgeris, A.N. Stassinakis, H.E. Nistazakis, E.V. Chatzikontis, A.D. Tsigopoulos, V. Christofilakis.
MOCASST 10th International Conference on Modern Circuits and Systems Technologies 2021, pp. 1-4, DOI: [10.1109/MOCASST52088.2021.9493354](https://doi.org/10.1109/MOCASST52088.2021.9493354).
- [C52] **"Time Jitter Influence on the Performance of PPM or PAM SIMO FSO Links over M-Turbulence Channels"**.
P.J. Gripeos, H.E. Nistazakis, G.K. Varotsos, W. Gappmair, A.D. Tsigopoulos.
ConTEL 2021 16th International Conference on Telecommunications, Zagreb, Croatia, June 30 – July 2, 2021, pp. 37-42, doi: 10.23919/ConTEL52528.2021.9495994.
- [C53] **"ABLER Estimation of SIMO FSO Links over Saturated Turbulence and Spatial Jitter"**.
N.A. Androutsos, A.N. Stassinakis, A.D. Tsigopoulos, C.N. Vazouras.
9th International Conference on Experiments/Process/System Modeling/Simulation/Optimization, 9th IC-EpsMsO Athens, July 7-10, 2021.
- [C54] **"Availability of UOWC Links Impaired by the Chromatic Dispersion and the Time Jitter Effect Modeled with the Truncated Normal Distribution"**.
B. Dulla, H.E. Nistazakis, A.D. Tsigopoulos, G. Mkrttchian, G.S. Tombras.
9th International Conference on Experiments/Process/System Modeling/Simulation/Optimization, 9th IC-EpsMsO Athens, July 7-10, 2021.
- [C55] **"BER Performance Estimation for SIMO FSO Links with Time Jitter over Exponential Turbulence Channels"**.
P.J. Gripeos, H.E. Nistazakis, A.D. Tsigopoulos, G. Mkrttchian, G.S. Tombras.
9th International Conference on Experiments/Process/System Modeling/Simulation/Optimization, 9th IC-EpsMsO Athens, July 7-10, 2021.
- [C56] **"Experimental Attenuation Detection for Maritime FSO Link under Weak Wind Conditions"**.
A.N. Stassinakis, A.D. Tsigopoulos, G.A. Papavgeris, S.Q. Jaradat.
9th International Conference on Experiments/Process/System Modeling/Simulation/Optimization, 9th IC-EpsMsO Athens, July 7-10, 2021.
- [C57] **"Configurable Multi-Frequencies Microstrip Square Spiral Antenna RFID Tag at S and C-BAND with Different Substrates"**.
T. Korfiati, E. Karagianni, S. Stavrinidis, A. Tsigopoulos, G. Stavrinidis, A. Kostopoulos, A. Arapogianni
9th International Conference on Experiments/Process/System Modeling/Simulation/Optimization, 9th IC-EpsMsO Athens, July 7-10, 2021.
- [C58] **"Measuring the Radar Cross Section of Carbon Fiber Reinforced Composite Panels in a Non-Anechoic Environment"**.
C.N. Vazouras, A. Polymerou, S. Kyriakou, A.D. Tsigopoulos, E.A. Karagianni, A.S. Paipetis, N. Melanitis.
9th International Conference on Experiments/Process/System Modeling/Simulation/Optimization, 9th IC-EpsMsO Athens, July 7-10, 2021.
- [C59] **"ARESIBO – Augmented Reality Enriched Situation Awareness for Border Security. O Contributo da Marinha"**.
V. Conceição, M. Pereira, R. Moreira, S. Brioso, A. Tsigopoulos.
3^o Encontro de Investigação e Desenvolvimento em Ciências Militares, (Annual Military Research and Innovation Meeting), Academia Militar – Campus da Amadora, Portugal, November 22, 2021, <https://academiamilitar.pt/ecm2021.html>.
- [C60] **"Outage Performance of FSO Links with chirped Gaussian pulses and truncated modeled Time Jitter"**.

- D. Kriempardis, P.J. Gripeos, E. Kapotis, H.E. Nistazakis, A.D. Tsigopoulos, Ch.K. Volos.
MOCASST 11th International Conference on Modern Circuits and Systems Technologies 2022, Bremen, Germany 8 – 10 June 2022.
- [C61] **“Gamma Gamma Turbulence and Nonzero Bore-sight Spatial Jitter Influence at the Outage Performance of THz Links”**.
G.K. Varotsos, E.V. Chatzikontis, H.E. Nistazakis, K. Aidinis, A.D. Tsigopoulos, V. Christofilakis.
CobCom2022, Graz University of Technology, Austria, July 12-14, 2022.
- [C62] **“Estimation of Availability for Water-To-Air Optical Wireless Communication Link through Wavy Water Surface”**.
A.N. Stassinakis, E.V. Chatzikontis, E. Kapotis, A.D. Tsigopoulos, C.N. Vazouras, G. Mkrttchian and H.E. Nistazakis.
10th International Conference from “Scientific Computing to Computational Engineering”
10th IC-SCCE, Athens, 6-9 July, 2022.
- [C63] **“Weak Turbulence Influence in the Average BLER of SIMO FSO Links”**.
N.A. Androutsos, A.D. Tsigopoulos, E. Kapotis, G. Mkrttchian and G.S. Tombras.
10th International Conference from “Scientific Computing to Computational Engineering”
10th IC-SCCE, Athens, 6-9 July, 2022.
- [C64] **“An Experimental FSO/MMW/RF Hybrid Wireless Communications Link Setup over Urban Area”**.
E.V. Chatzikontis, A.D. Tsigopoulos, A.N. Stassinakis, A. Lionis, C.N. Vazouras and H.E. Nistazakis.
10th International Conference from “Scientific Computing to Computational Engineering”
10th IC-SCCE, Athens, 6-9 July, 2022.
- [C65] **“Expected Irradiance of FSO Links with Chromatic Dispersive, and Laplace Time-Jittered Gaussian Pulses”**.
P.J. Gripeos, D. Oreinos, D. Kriempardis, A.D. Tsigopoulos, E. Kapotis, C.N. Vazouras and H.E. Nistazakis.
10th International Conference from “Scientific Computing to Computational Engineering”
10th IC-SCCE, Athens, 6-9 July, 2022.
- [C66] **“Designing Assessment Activities Based on the Framework of “Three-Dimensional Learning”: The Case of Gravitational Forces”**.
M. Papakonstantinou, M. Skoumios, A.D. Tsigopoulos.
10th International Conference from “Scientific Computing to Computational Engineering”
10th IC-SCCE, Athens, 6-9 July, 2022.
- [C67] **“ARESIBO – Augmented Reality Enriched Situation Awareness for Border Security. Evaluation Framework and Results of Large-Scale Trials”**.
V. Conceição, A. Tsigopoulos, S. Toivonen.
ECM2022 (4.º Encontro de I&D em Ciências Militares), Academia da Força Aérea, Granja do Marquês, 2715-021 Pêro Pinheiro, Portugal, 16 November, 2022.