

Brief CV

Harilaos G. Sandalidis was born in Florina, Greece, in 1972. He received the five-year Diploma degree in Electronics and Computer Engineering and the M.Sc. degree in Business Administration at the Production Engineering and Management Dept. from the Technical University of Crete, Greece, in 1995 and 1998, respectively. He also received the M.Sc. degree in Radiofrequency and Microwave Communications and the Ph.D. degree in the Telecommunications area at Electronics and Telecommunications (former Electronics and Electrical engineering) Dept. from the University of Bradford, UK, in 1996 and 2002, respectively. From 1996 to 2001, he was a research assistant at the Telecommunications Systems Institute of Crete, Greece, working towards his Ph.D. degree in collaboration with the University of Bradford. After his military service, he joined TEMAGON, the technology consulting branch of the Hellenic Telecommunications Organization (OTE Group), in 2002, where he was involved in the risk mitigation program for the 2004 Olympic Telecommunication Network in collaboration with Telcordia Technologies, Inc. From 2003 to 2009, he worked as a senior investigator for the Greek Ombudsman Office. In March 2009, he joined the Dept. of Computer Science and Biomedical Informatics, University of Central Greece, as a Lecturer. He is now a Professor in the same Dept., which currently belongs to the University of Thessaly. His significant research interest lies in optical wireless networking, including free-space optics, underwater optical networks, and visible light communications.

Publications

PhD Dissertation

Harilaos G. Sandalidis, *Channel Allocation Schemes for Cellular Systems using Efficient Heuristic Techniques: Application of effective computational intelligence methods in the form of evolutionary algorithms and/ or Hopfield neural networks to the combinatorial problem of channel assignment*, University of Bradford, 2000.

Book Chapters

1. **Harilaos G. Sandalidis**, Peter P. Stavroulakis, and J. Rodriguez-Tellez, "Application of the Genetic Algorithm Approach to a Cellular Dynamic Channel Allocation Model", in S.G. Tzafestas (Ed.), *Computational Intelligence in Systems and Control Design and Applications*, Kluwer Academic Publishers, 1999.
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3. **Harilaos G. Sandalidis** and Peter Stavroulakis, "Design Principles of Reliable Cellular Systems", in W. Chin, F. Patricelli and V. Milutinovic (Eds.), *Electronic Business and Education: Recent Advances in Internet Infrastructures*, Kluwer Academic Publishers, 2002.
4. **Harilaos G. Sandalidis** and Peter Stavroulakis, "Heuristics for solving Fixed Channel Assignment Problem", in I. Stojmenovic (Ed.), *Handbook of Wireless Networks and Mobile Computing*, John Wiley, 2002.
5. **Harilaos G. Sandalidis** and Peter Stavroulakis, "Key issues in Reliable Cellular System Design", in P. Stavroulakis (Ed.), *Reliability, Survivability and Quality of Large Scale Telecommunication Systems: Case Study: Olympic Games*, John Wiley, 2003.
6. **Harilaos G. Sandalidis** and Ilias Maglogiannis, "Channel Models for On-Body Communications", in E. Sazonov and M. Neuman (Eds.), *Wearable Sensors: Fundamentals, Implementation and Applications*, Elsevier, 2014.
7. Lydia K. Gkoura, George D. Roumelas, Hector E. Nistazakis, **Harilaos G. Sandalidis**, Alexander Vavoulas, Andreas D. Tsigopoulos, and George S. Tombras, "Underwater Optical Wireless Communication Systems: A Concise Review", in K. Volkov (Ed.), *Turbulence Modelling Approaches-Current State, Development Prospects, Applications*, InTechOpen, 2017.

Journal Publications

1. **Harilaos G. Sandalidis**, Peter P. Stavroulakis, and Joe Rodriguez-Tellez, "Comparison of Two Novel Heuristic Dynamic Channel Allocation Techniques in Cellular Systems", *International Journal of Communication Systems*, John Wiley, Vol. 11, No. 6, November-December 1998, pp.379-386.
2. **Harilaos G. Sandalidis**, Peter P. Stavroulakis, and Joe Rodriguez-Tellez, "An Efficient Evolutionary Algorithm for Channel Resource Management in Cellular Systems", *IEEE Transactions on Evolutionary Computation*, Vol. 2, No. 4, November 1998, pp. 125-137.
3. **Harilaos G. Sandalidis**, Peter P. Stavroulakis, and Joe Rodriguez-Tellez, "Borrowing Channel Assignment Strategies Based on Heuristic Techniques for Cellular Systems", *IEEE Transactions on Neural Networks*, Vol. 10, No. 1, January 1999, pp. 176-181.

4. **Harilaos G. Sandalidis**, Peter P. Stavroulakis, and Joe Rodriguez-Tellez, "Performance Measures for Channel Allocation Techniques in Cellular Networks Using Evolutionary Algorithms", *IEE Proceedings on Communications*, Vol. 146, No. 5, October 1999, pp. 331-335.
5. **Harilaos G. Sandalidis**, Peter P. Stavroulakis, and Joe Rodriguez-Tellez, "Genetic inspired Channel Assignment Schemes for Cellular Systems", *IMACS Mathematics and Computers in Simulation*, Vol. 51, Issues 3-4, 2000, pp. 273-286.
6. **Harilaos G. Sandalidis**, Kostas Mavromoustakis, and Peter Stavroulakis, "Performance Measures of an Ant based Decentralised Routing Scheme for Circuit Switching Communication Networks", Special Issue On Computational Intelligence In Telecommunications Networks, *Softcomputing Journal*, Springer Verlag, Vol. 5, No. 4, 2001, pp. 313-317.
7. **Harilaos G. Sandalidis**, Kostas Mavromoustakis, and Peter Stavroulakis, "Ant based Probabilistic Routing with Pheromone and Antipheromone Mechanisms", *International Journal of Communication Systems*, John Wiley, Vol. 17, No. 1, January-February 2004, pp.55-62.
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9. **Harilaos G. Sandalidis**, Theodoros A. Tsiftsis, George K. Karagiannidis, and Murat Uysal, "BER Performance of FSO Links over Strong Atmospheric Turbulence Channels with Pointing Errors", *IEEE Communications Letters*, Vol. 12, No.1, January 2008, pp. 44-44.
10. **Harilaos G. Sandalidis** and Theodoros A. Tsiftsis, "Outage Probability and Ergodic Capacity of Free Space Optical Links over Strong Turbulence", *IEE Electronic Letters*, Vol. 44, No. 1, January 2008, pp. 46-47.
11. **Harilaos G. Sandalidis**, "Optimization Models for Misalignment Fading Mitigation in Optical Wireless Links", *IEEE Communications Letters*, Vol. 12, No. 5, May 2008, pp. 395 - 397.
12. Theodoros A. Tsiftsis, **Harilaos G. Sandalidis**, George K. Karagiannidis, and Murat Uysal, "Optical Wireless Links with Spatial Diversity over Strong Atmospheric Turbulence Channels", *IEEE Transactions on Wireless Communications*, Vol. 8, No. 2, February 2009, pp. 951-957.
13. **Harilaos G. Sandalidis**, Theodoros A. Tsiftsis, and George K. Karagiannidis, "Optical Wireless Communications with Heterodyne Detection Over Turbulence Channels with Pointing Errors", *IEEE/OSA Journal of Lightwave Technology*, Vol. 27, No. 20, October 2009, pp. 4440-4445.
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15. **Harilaos G. Sandalidis**, "Performance of a Laser Earth-to-Satellite Link over Turbulence and Beam Wander using the Modulated Gamma-Gamma Irradiance Distribution", *Applied Optics*, Vol. 50. No. 6, February 2011, pp. 952-961.
16. Alexander Vavoulas, **Harilaos G. Sandalidis**, and Dimitris Varoutas, "Connectivity Issues for Ultraviolet UV-C Networks", *IEEE/OSA Journal of Optical Communications Networking*, Vol. 3, No. 3, March 2011, pp. 199-205.
17. **Harilaos G. Sandalidis**, "Coded Free-Space Optical Links over Strong Turbulence and Misalignment Fading Channels", *IEEE Transactions on Communications*, Vol. 59. No. 3, March 2011, pp. 669-674.
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19. Alexander Vavoulas, **Harilaos G. Sandalidis**, and Dimitris Varoutas, "Node Isolation Probability for Serial Ultraviolet UV-C Multi-hop Networks", *IEEE/OSA Journal of Optical Communications Networking*, Vol. 3, No. 9, September 2011, pp. 750-757.
20. Nicholas Vaiopoulos, **Harilaos G. Sandalidis**, and Dimitris Varoutas, "WiMAX on FSO: Outage Probability Analysis", *IEEE Transactions on Communications*, Vol. 60, No. 10, October 2012, pp. 2789-2795.
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32. Michalis P. Ninos, Hector E. Nistazakis, **Harilaos G. Sandalidis**, and George S. Tombras, "CDMA RoFSO Links with Nonzero Boresight Pointing Errors over M Turbulence Channels", *IEEE Photonics Journal*, Vol. 10, No. 5, Article Seq. No 7906312, October 2018.

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35. Nikolaos A. Androutsos, Hector E. Nistazakis, Argiris N. Stassinakis, **Harilaos G. Sandalidis**, and George S. Tombras, "Performance of SIMO FSO Links over Mixture Composite Irradiance Channels", *Applied Sciences*, Vol. 9, No. 10, Article No. 2072, May 2019.
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41. Nicholas Vaiopoulos, Alexander Vavoulas, and **Harilaos G. Sandalidis**, "An Assessment of a UAV based Broadcast Scenario assuming Random Terrestrial User Locations", *IET Optoelectronics*, Vol. 15, No. 3, June 2021, pp. 121-130.
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45. Nicholas Vaiopoulos, Alexander Vavoulas, and **Harilaos G. Sandalidis**, "Impact of a Randomly Placed Terminal on LiFi Performance", *IEEE Transactions on Communications*, Vol. 70, No. 3, March 2022, pp. 1875-1885.
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47. Alexandros-Apostolos A. Boulogeorgos, Nestor Chatzidiamantis, **Harilaos G. Sandalidis**, Angeliki Alexiou, and Marco Di Renzo, "Cascaded Composite Turbulence and Misalignment: Statistical

Characterization and Applications to Reconfigurable Intelligent Surface-Empowered Wireless Systems", *IEEE Transactions on Vehicular Technology*, Vol. 71, No. 4, April 2022, pp. 3821-2836.

Conference Publications

1. **Harilaos G. Sandalidis**, Constantinos T. Angelakis, George S. Lioudakis, and Peter P. Stavroulakis, "Hopfield Neural Network - Based Implementation of Dynamic Channel Assignment in Cellular Mobile Communication Systems", International Workshop on Mobile Communications, Thessaloniki, Greece, 19-20 September 1996.
2. **Harilaos G. Sandalidis**, Peter P. Stavroulakis, and J. Rodriguez-Tellez, "Implementation of Genetic Algorithms to a Channel Assignment Problem in Cellular Communications", 6th International Conference on Advances in Communications and Control, Telecommunications / Signal Processing, COMCON 6, Corfu, Greece, 23-27 June 1997, pp. 453-460.
3. **Harilaos G. Sandalidis**, Peter P. Stavroulakis, and J. Rodriguez-Tellez, "A Combinatorial Evolution Strategy for Dynamic Channel Assignment in Cellular Radio", ACM 1998 Symposium on Applied Computing (SAC'98), Atlanta, USA, 27 February-1 March 1998, pp. 303-307.
4. **Harilaos G. Sandalidis**, Peter P. Stavroulakis, and J. Rodriguez-Tellez, "Combinatorial Evolution Strategy-Based Implementation of Dynamic Channel Assignment in Cellular Communications ", IEE Sixth International Conference on Telecommunications, Edinburgh, UK, 29 March- 1 April 1998, pp. 170-174.
5. **Harilaos G. Sandalidis**, Peter P. Stavroulakis, and J. Rodriguez-Tellez, "Borrowing Channel Assignment Strategy using Computational Intelligence Methods" IEEE 48th Annual Vehicular Technology Conference (VTC '98), Ottawa, Ontario Canada 18-21 May 1998, pp. 1685-1689.
6. **Harilaos G. Sandalidis**, Peter P. Stavroulakis, and J. Rodriguez-Tellez, "Simulation and Performance of a Heuristic Channel Assignment Model in Cellular System", ICT'98 International Conference on Telecommunications, Porto Carras, Chalkidiki, Greece 22-25 June 1998, pp. 247-251.
7. Themis T. Zamparakis, Nektarios N. Kokkinogenis, **Harilaos G. Sandalidis**, and Peter Stavroulakis, "Structure and Operation of a Knowledge-based Decision Support System for Terrestrial Cellular Networks", International Workshop on Mobile Communications, Chania, Greece, 24-26 June 1999, pp. 375-382.
8. Konstantinos D. Andreadis, **Harilaos G. Sandalidis**, and Peter Stavroulakis, "A Hopfield Neural Network Multicast Switch for ATM Networks", 7th International Conference on Advances in Communications and Control, Telecommunications / Signal Processing, COMCON 7, Athens, Greece, 28 June - 2 July 1999, pp. 287-294.
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11. Peter Stavroulakis and **Harilaos G. Sandalidis**, "Quality Considerations of Large Scale Systems used in Wireless Networks", Invited paper at the International Conference on Advances in Infrastructure for Electronic Business, Science and Education on the Internet, SSGRR 2000, l'Aquila, Italy, 31 July - 6 August, 2000.

12. Peter Stavroulakis, Costas P. Kakkavas, and **Harilaos G. Sandalidis**, "Applications of Statistical Signal Processing in Image Data Compression", Invited paper at the Minisymposium "Multidisciplinary Applications of Statistical Signal Processing", 16th IFIP World Computer Congress (WCC 2000) and Fifth International Conference in Signal Processing (ICSP 2000), Beijing, China, 21-25 August, 2000, pp. 2123-2127.
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20. Nestor D. Chatzidiamantis, **Harilaos G. Sandalidis**, George K. Karagiannidis, and Michail Matthaiou, "A Simple Statistical Model for Turbulence-Induced Fading in Free-Space Optical Systems", IEEE International Conference on Communications 2010 (ICC'10), Cape Town, South Africa, 23-27 May 2010.
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