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## ΒΙΟΓΡΑΦΙΚΟ ΣΗΜΕΙΩΜΑ

**Μπαζιάνα Περιστέρα**

Διδάκτωρ Ηλεκτρολόγος Μηχανικός και Μηχανικός Υπολογιστών Ε.Μ.Π.

### Ατομικά Στοιχεία

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### Σπουδές

- Διδακτορικό Δίπλωμα Ηλεκτρολόγου Μηχανικού και Μηχανικού Υπολογιστών, Εθνικό Μετσόβιο Πολυτεχνείο.

Τίτλος Διδακτορικής Διατριβής: “**Αρχιτεκτονικές Ελέγχου και Τεχνικές Μετάδοσης για τη Βελτιστοποίηση της Απόδοσης Οπτικών WDM Δικτύων**”

- Δίπλωμα Ηλεκτρολόγου Μηχανικού και Τεχνολογίας Υπολογιστών, Πανεπιστήμιο Πατρών.

Τίτλος Διπλωματικής Εργασίας: “**Σχεδίαση και Υλοποίηση Υποσυστημάτων για Receiver Front-End με Εφαρμογή σε Συστήματα Προσωπικών Επικοινωνιών (P.C.S.)**”

### Επιστημονικά – Ερευνητικά Ενδιαφέροντα

- Οπτικές Τηλεπικοινωνίες – Δίκτυα Οπτικών Ινών
- Αρχιτεκτονικές και Τεχνικές Μετάδοσης - Πρωτόκολλα Πρόσβασης Δικτύων Επικοινωνιών (Οπτικών, Ασύρματων)
- Βελτιστοποίηση Απόδοσης Δικτύων
- Μαθηματική Μοντελοποίηση Απόδοσης Δικτύων - Τηλεπικοινωνιακής Κίνησης
- Εξομοίωση Τηλεπικοινωνιών Συστημάτων

### Ακαδημαϊκή Εμπειρία

- Α. Επίκουρη καθηγήτρια στο Τμήμα Πληροφορικής και Τηλεπικοινωνιών της Σχολής Θετικών Επιστημών του Πανεπιστημίου Θεσσαλίας
- Β. Επισκέπτρια καθηγήτρια στο Πανεπιστήμιο Ταχυδρομείων και Τηλεπικοινωνιών του Πεκίνου, Κίνα (Beijing University of Posts and Telecommunications, BUPT):
  - Διάρκεια: 7/2017– 7/2022
- Γ. Έκτακτο διδακτικό προσωπικό (πανεπιστημιακός υπότροφος) στο Μεταπτυχιακό Πρόγραμμα Σπουδών «Τεχνοοικονομική Διοίκηση Τηλεπικοινωνιακών Συστημάτων» του Τμήματος Ψηφιακών Συστημάτων του Πανεπιστημίου Πειραιά:
  - Χειμερινό Εξάμηνο 2017 – 2018 & 2018 – 2019

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- Δ. Έκτακτο διδακτικό προσωπικό (συμβασιούχος σύμφωνα με το Π.Δ. 407/80) στο Τμήμα Πληροφορικής του Πανεπιστημίου Θεσσαλίας:
- Χειμερινό Εξάμηνο 2016 – 2017, 2017 – 2018, 2018 – 2019 & 2019-2020
  - Εαρινό Εξάμηνο 2019-2020
- Ε. Έκτακτο διδακτικό προσωπικό (πανεπιστημιακός υπότροφος) στο Διατμηματικό Μεταπτυχιακό Πρόγραμμα Σπουδών «Πληροφορική και Υπολογιστική Βιοϊατρική» του Πανεπιστημίου Θεσσαλίας:
- Εαρινό Εξάμηνο 2016 – 2017, 2017 – 2018, 2018 – 2019 & 2019-2020
- ΣΤ. Έκτακτο διδακτικό προσωπικό (πανεπιστημιακός υπότροφος) στο Τμήμα Μηχανικών Πληροφορικής και Τηλεπικοινωνιών του Πανεπιστημίου Δυτικής Μακεδονίας:
- Χειμερινό Εξάμηνο 2015 – 2016 & 2016 – 2017
  - Εαρινό Εξάμηνο 2015 – 2016 & 2016 – 2017
- Η. Εργαστηριακό Διδακτικό Προσωπικό (Ε.ΔΙ.Π.) - Εκπαιδευτικό εργαστηριακό προσωπικό, Σχολή Ηλεκτρολόγων Μηχανικών & Μηχανικών Υπολογιστών, Ε.Μ.Π.:
- Χειμερινό Εξάμηνο 2014 – 2015 έως 2019-2020
  - Εαρινό Εξάμηνο 2013 – 2014 έως 2019-2020

### Επιστημονικές Δημοσιεύσεις σε Διεθνή Περιοδικά με Κριτές

- [J.1] **P.A.Baziana**, G. Fragkouli, E. Sykas: “Destination Buffer Analysis for Packets Rejection Obliteration in Multi-channel Networks”, Elsevier Journal of the Franklin Institute, Vol. 356, Issue 15, pp. 8803-8828, Oct. 2019. (dx.doi.org/10.1016/j.jfranklin.2019.07.025)
- [J.2] **P.A.Baziana**: “Resource Allocation Mechanism for Efficiency Improvement in WDM Networks: An Analytical Comparison Study”, Elsevier Optical Switching and Networking Journal, Vol. 33, pp. 15-24, 2019. (dx.doi.org/10.1016/j.osn.2019.02.002)
- [J.3] **P.A.Baziana**: “Exploring the optimum number of receivers per station in WDM networks”, Elsevier Computer Networks Journal, Vol. 143, pp. 153-165, Oct. 2018. (dx.doi.org/10.1016/j.comnet.2018.07.015)
- [J.4] **P.A.Baziana**: “A Traffic-Depended Multi-Buffer Node Architecture and an Effective Access Technique under Symmetric and Asymmetric IP Traffic Scenarios for Unslotted Ring WDM MANs”, Elsevier Optical Fiber Technology Journal, Vol. 31, pp. 92-110, Sept. 2016. (dx.doi.org/10.1016/j.yofte.2016.06.006)
- [J.5] **P.A.Baziana**: “Performance Analysis and Transmission Strategies Comparison for Synchronous WDM Passive Star LANs”, Springer Photonic Network Communications Journal, Vol. 31, Issue 3, pp. 457–465, June 2016. (dx.doi.org/10.1007/s11107-015-0593-0)
- [J.6] **P.A.Baziana**: “An Approximate Protocol Analysis with Performance Optimization for WDM Networks”, Elsevier Optical Fiber Technology Journal, Vol. 20, Issue 4, pp. 414-421, Aug. 2014. (dx.doi.org/10.1016/j.yofte.2014.05.003)

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- [J.7] **P.A.Baziana**, I.E.Pountourakis: “A Channel Reuse Strategy with Adaptive Channel Allocation for All-Optical WDM Networks” Elsevier Optical Switching and Networking Journal, Vol. 10, pp. 246-257, July 2013. (dx.doi.org/10.1016/j.osn.2013.02.005)
- [J.8] **P.A.Baziana**, I.E.Pountourakis: “An Access Protocol for Efficiency Optimization in WDM Networks: A Propagation Delay and Collisions Avoidance Analysis”, Elsevier Computer Networks Journal, Vol. 57, pp. 1234-1252, April 2013. (dx.doi.org/10.1016/j.comnet.2012.12.015)
- [J.9] **P.A.Baziana**, I.E.Pountourakis: “An Efficient Access Protocol and a Node Multi-Buffer Architecture for Bandwidth Utilization Improvement in WDM Ring MANs”, Elsevier Optik –International Journal for Light and Electron Optics, Vol. 124, pp. 3038-3046, Sept. 2013. (dx.doi.org/10.1016/j.ijleo.2012.09.024)
- [J.10] **P.A.Baziana**, I.E.Pountourakis: “A Transmission Strategy with Protocol Analysis for Performance Improvement in WDM Networks”, IEEE Transactions on Communications, Vol. 60, No. 7, pp. 1975-1985, July 2012. (dx.doi.org/10.1109/TCOMM.2012.051412.110422)
- [J.11] **P.A.Baziana**, I.E.Pountourakis: “An Input Traffic Allocation Strategy and an Efficient Transmission Technique for Collisions-Free WDM Ring MANs”, Elsevier Optical Fiber Technology Journal, Vol. 16, Issue 5, pp. 279-291, Oct. 2010. (dx.doi.org/10.1016/j.yofte.2010.06.002)
- [J.12] **P.A.Baziana**, I.E.Pountourakis: “A Slotted Access Control Protocol for Metropolitan WDM Ring Networks”, Elsevier Optical Fiber Technology Journal, Vol. 15, pp. 100-118, March 2009. (dx.doi.org/10.1016/j.yofte.2008.06.006)
- [J.13] **P.A.Baziana**, I.E.Pountourakis: “An Efficient Metropolitan WDM Ring Architecture for a Slotted Transmission Technique”, IEEE Journal of Lightwave Technology, Vol. 26, No. 19, pp. 3307-3317, Oct. 1, 2008. (dx.doi.org/10.1109/JLT.2008.928930)
- [J.14] **P.A.Baziana**, I.E.Pountourakis: “Performance Optimization with Propagation Delay Analysis in WDM Networks”, Elsevier Computer Communications Journal, Vol. 30, Issue 18, pp. 3572–3585, Dec. 2007. (dx.doi.org/10.1016/j.comcom.2007.08.032)
- [J.15] I.E.Pountourakis, **P.A.Baziana**: “A Collision-free with Propagation Latency WDMA Protocol Analysis”, Elsevier Optical Fiber Technology Journal, Vol. 13, Issue 2, pp. 160-169, April 2007. (dx.doi.org/10.1016/j.yofte.2006.12.006)
- [J.16] **P.A.Baziana**, I.E.Pountourakis: “A Reservation Protocol Analysis for Multi-Channel Wireless Networks”, Journal of Communications Software and Systems (JCOMSS), Vol. 2, No. 4, pp. 340-346, Dec. 2006.
- [J.17] **P.A.Baziana**, I.E.Pountourakis: “A Dynamic Procedure with Propagation Delay Analysis for Performance Optimization in WDM Networks”, WSEAS Transactions on Computers Research, Issue 1, Vol. 1, ISSN 1991-8755, pp. 1-6, Nov. 2006.
- [J.18] I.E.Pountourakis, **P.A.Baziana**: “Markovian Receiver Collision Analysis of High-Speed Multi-channel Networks”, Mathematical Methods in the Applied Sciences Journal, Vol. 29, Issue 5, pp. 575-593, March 2006. (dx.doi.org/10.1002/mma.701)
- [J.19] I.E.Pountourakis, **P.A.Baziana**: “Multi-channel Multi-access Protocols with Receiver Collision Markovian Analysis”, WSEAS Transactions on Communications, Issue 8, Vol. 4, ISSN 1109-2742, pp. 564-569, Aug. 2005.

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## Δημοσιεύσεις στα Πλήρη Πρακτικά Διεθνών Συνεδρίων με Κριτές

- [C.1] **P.A.Baziana:** “Adaptive Channel Allocation Algorithm Suitable for WDM Networks: An Analytical Study”, in Proc. of the 9<sup>th</sup> International Conference on Optical Communication Systems 2018 (OPTICS 2018), Vol. 2, ICETE, ISBN 978-989-758-319-3, pp. 235-240, July 26-28, 2018, Porto, Portugal. (dx.doi.org/10.5220/0006848402350240)
- [C.2] **P.A.Baziana:** “Destination conflicts decrease in high-capacity optical LANs”, in Proc. of the 20th International Conference on Transparent Optical Networks (ICTON 2018), July 1-5, 2018, Bucharest, Romania.
- [C.3] **P.A.Baziana:** “Performance Improvement Study for Multi-Channel Networks: A Receiver Buffer Size Analysis”, in Proc. of the International IEEE Conference on Microwaves, Communications, Antennas and Electronic Systems (IEEE COMCAS 2017), Nov. 13-15, 2017, Tel Aviv, Israel. (dx.doi.org/10.1109/COMCAS.2017.8244723)
- [C.4] **P.A.Baziana:** “Dynamic Wavelength Assignment and Analytical Performance Evaluation for Optical High-Speed Networks”, in Proc. of the 19th International Conference on Transparent Optical Networks (ICTON 2017), pp. 1-4, July 2-6, 2017, Girona, Spain. (dx.doi.org/10.1109/ICTON.2017.8024850)
- [C.5] **P.A.Baziana:** “Asymmetric Access Rights Algorithm for Performance Improvement in WDM LANs”, in Proc. of the 40th International Conference on Telecommunications and Signal Processing (TSP 2017), pp. 60-63, July 5-7, 2017, Barcelona, Spain. (dx.doi.org/10.1109/TSP.2017.807593)
- [C.6] **P.A.Baziana:** “Performance Enhancement Conditions in WDM LANs with a Separate Control Wavelength”, in Proc. of the Fourteenth International Conference on Wireless and Optical Communications Networks (WOCN 2017), Feb. 24-26, 2017, Mumbai, India. (dx.doi.org/10.1109/WOCN.2017.8065848)
- [C.7] **P.A.Baziana:** “Analytical Performance Study of Multiple Packets Reception Capabilities for Network Interfaces in WDM LANs”, in Proc. of the Fourteenth International Conference on Wireless and Optical Communications Networks (WOCN 2017), Feb. 24-26, 2017, Mumbai, India. (dx.doi.org/10.1109/WOCN.2017.8065847)
- [C.8] **P.A.Baziana:** “Rejection Events Elimination at Destination in WDM Networks: Analytical Framework and Comparison”, in Proc. of the 2017 IEEE International Conference on Electrical, Computer and Communication Technologies (IEEE ICECCT 2017), pp. 554-560, Feb. 22-24, 2017, Coimbatore, Tami Nadu, India. (dx.doi.org/10.1109/ICECCT.2017.8117924)
- [C.9] **P.A.Baziana:** “Channel Grouping Architecture for Multi-Channel Networks”, in Proc. of the 2017 IEEE International Conference on Electrical, Computer and Communication Technologies (IEEE ICECCT 2017), Feb. 22-24, 2017, Coimbatore, Tami Nadu, India. (dx.doi.org/10.1109/ICECCT.2017.8117936)
- [C.10] **P.A.Baziana:** “Channels Splitting Strategy for Optical Local Area Networks of Passive Star Topology”, in Proc. of ICONDM 2017: 19<sup>th</sup> International Conference on Optical Network Design and Modelling, pp. 2013-2018, Jan. 23-24, 2017, Paris, France.

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- [C.11] **P.A.Baziana**, G. Fragakouli, and E. Sykas: “Analytical Receiver Collisions Performance Modeling of a Multi-channel Network”, in Proc. of the 2017 IEEE Conference of Russian Young Researchers in Electrical and Electronic Engineering (ElConRus 2017), Paper No. 008, Feb. 01-03, 2017, St. Petersburg, Russia. (dx.doi.org/10.1109/ElConRus.2017.7910507)
- [C.12] **P.A.Baziana**: “Performance Improvement Study and an Asynchronous Transmission WDMA Protocol for Various Size Internet Packets MANs”, in Proc. of the 15th IEEE International Conference on Communication Systems (IEEE ICCS 2016), Dec. 14-16, 2016, Shenzhen, China. (dx.doi.org/10.1109/ICCS.2016.7833584)
- [C.13] **P.A.Baziana**: “An Asynchronous Transmission Protocol with Propagation Delay Study for WDM Networks”, in Proc. of 37<sup>th</sup> IEEE Sarnoff Symposium, Sept. 19-21, 2016, Newark, New Jersey, USA. (dx.doi.org/10.1109/SARNOF.2016.7846721)
- [C.14] **P.A.Baziana**: “An Analytical Study for an Asynchronous Transmission Protocol for Optical High-Speed Networks with Multiple Tunable Receivers Per Node”, in Proc. of ISCC 2016: The Twenty-First IEEE Symposium on Computers and Communications, pp. 706-711, June 27-30, 2016, Messina, Italy. (dx.doi.org/10.1109/ISCC.2016.7543816)
- [C.15] **P.A.Baziana**: “A WDM Transmission Strategy and Node Architecture Suitable for Various Sizes IP Traffic in Ring MANs”, in Proc. of SAI 2015: Science and Information Conference, pp. 1098-1103, July 28-30, 2015, London, UK. (dx.doi.org/10.1109/SAI.2015.7237280)
- [C.16] **P.A.Baziana**: “Performance Analysis of a WDMA Protocol with a Multiple Tunable Receivers Node Architecture for High-Speed Optical Fiber LANs”, in Proc. of 6<sup>th</sup> International Conference on Optical Communication Systems 2015 (OPTICS 2015), pp. 5-13, July 20-22, 2015, Colmar, France. (dx.doi.org/10.5220/0005517100050013)
- [C.17] **P.A.Baziana**: “Criteria for Rejection Probability Reduction in WDM LANs”, in Proc. of 17th International Conference on Transparent Optical Networks 2015 (ICTON 2015), pp. 1-4, July 5-9, 2015, Budapest, Hungary. (dx.doi.org/10.1109/ICTON.2015.7193427)
- [C.18] **P.A.Baziana**: “Analytical Study of a Synchronous WDMA Strategy with Propagation Delay Utilization”, in Proc. of 19<sup>th</sup> International Conference on Optical Network Design and Modeling (ONDM 2015), pp. 186-191, May 11-14, 2015, Pisa, Italy. (dx.doi.org/10.1109/ONDM.2015.7127296)
- [C.19] **P.A.Baziana**: “Performance Evaluation of an Efficient Asynchronous Protocol for WDM Ring MANs”, in Proc. of ICONDM 2015: XIII International Conference on Optical Network Design and Modelling, pp. 1403-1409, Jan. 23-24, 2015, Paris, France.
- [C.20] **P.A.Baziana**, I.E.Pountourakis: “An Asynchronous WDMA Protocol without Collisions for Ring MANs: Study for Internet Traffic Packet Size Variation”, in Proc. of 2013 18<sup>th</sup> European Conference on Network and Optical Communications & 2013 8<sup>th</sup> Conference on Optical Cabling and Infrastructure (NOC-OC&I 2013), pp. 137-144, July 10-12, 2013, Graz, Austria. (dx.doi.org/10.1109/NOC-OCI.2013.6582879)
- [C.21] **P.A.Baziana**, I.E.Pountourakis: “Performance Optimization with Receiver Collisions Avoidance Protocol Analysis for WDM Networks”, in Proc. of 19<sup>th</sup> IEEE LAN/MAN Workshop on Local and Metropolitan Area Networks (LANMAN 2013), April 10-12, 2013, Brussels, Belgium. (dx.doi.org/10.1109/LANMAN.2013.6528273)

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- [C.22] **P.A.Baziana**, I.E.Pountourakis: “Criteria for Performance Improvement in Metropolitan Area WDM Ring Networks”, in Proc. of IEEE International Symposium on Signal Processing and Information Technology (ISSPIT 2011), pp. 114-119, December 14-17, 2011, Bilbao, Spain. (dx.doi.org/10.1109/ISSPIT.2011.6151544)
- [C.23] **P.A.Baziana**, I.E.Pountourakis: “A Channels Reuse Protocol for WDM Networks”, in Proc. of 2011 IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies (AEECT 2011), December 6-8, 2011, Amman, Jordan.
- [C.24] **P.A.Baziana**, I.E.Pountourakis: “Bandwidth Exploitation with Propagation Delay Analysis in WDM Networks”, in Proc. of 2011 IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies (AEECT 2011), December 6-8, 2011, Amman, Jordan.
- [C.25] **P.A.Baziana**, I.E.Pountourakis: “An Asymmetric Access Strategy with Propagation Delay Analysis for Bandwidth Utilization Improvement in WDM Networks”, in Proc. of 16<sup>th</sup> IEEE Symposium on Computers and Communications (ISCC 2011), pp. 525-530, June 28-July 1, 2011, Corfu, Greece. (dx.doi.org/10.1109/ISCC.2011.5983891)
- [C.26] **P.A.Baziana**, I.E.Pountourakis: “A WDM Ring MAN Architecture with Traffic Distribution and Collisions Avoidance for Bandwidth Utilization Enhancement”, in Proc. of 18<sup>th</sup> International Conference on Telecommunications (ICT 2011), ISBN: 978-1-4577-0023-1, pp. 373-378, May 8-11, 2011, Ayia Napa, Cyprus. (dx.doi.org/10.1109/CTS.2011.5898945)
- [C.27] **P.A.Baziana**, I.E.Pountourakis: “A collisions-free WDMA strategy for ring MANs with efficient traffic management: A performance optimization study”, in Proc. of 12<sup>th</sup> Anniversary International Conference on Transparent Optical Networks (ICTON 2010), June 27-July 1, 2010, Munich, Germany. (dx.doi.org/10.1109/ICTON.2010.5549263)
- [C.28] **P.A.Baziana**, I.E.Pountourakis: “A receiver collisions WDMA protocol study with propagation delay latency analysis”, in Proc. of 12<sup>th</sup> Anniversary International Conference on Transparent Optical Networks (ICTON 2010), June 27-July 1, 2010, Munich, Germany. (dx.doi.org/10.1109/ICTON.2010.5549265)
- [C.29] **P.A.Baziana**, I.E.Pountourakis: “Performance Improvement for a Metropolitan WDM Ring Network Architecture: An Efficient Traffic Management and a Delay-Sensitive Transmission Technique”, in Proc. of 17<sup>th</sup> IEEE LAN/MAN Workshop on Local and Metropolitan Area Networks (LANMAN 2010), May 5-7, 2010, Long Branch, New Jersey, USA. (dx.doi.org/10.1109/LANMAN.2010.5507165)
- [C.30] **P.A.Baziana**, I.E.Pountourakis: “A Control Channel Architecture with Collisions Avoidance Strategy for Performance Improvement in WDM Ring Networks”, in Proc. of 12<sup>th</sup> WSEAS International Conference on Communications, pp. 141-146, July 22-25, 2008, Crete Island, Greece.
- [C.31] **P.A.Baziana**, I.E.Pountourakis: “Control System Design of a Conflict-Free MAC Protocol for a WDM MAN”, in Proc. of 10<sup>th</sup> Anniversary International Conference on Transparent Optical Networks (ICTON 2008), Vol. III, pp. 85-88, June 22-26, 2008, Athens, Greece. (dx.doi.org/10.1109/ICTON.2008.4598661)
- [C.32] **P.A.Baziana**, I.E.Pountourakis: “Study of an Optical Multi-Wavelength Slotted Ring Protocol with Tunable Transceivers”, in Proc. of Sixth IASTED International Conference on Communication, Systems and Networks (CSN 2007), pp. 132-137, ISBN Hardcopy 978-0-88986-695-9, Aug. 29-31, 2007, Palma de Mallorca, Spain.

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- [C.33] **P.A.Baziana**, I.E.Pountourakis: “A Dynamic Procedure with Propagation Delay Analysis for Performance Optimization in WDM Networks”, in Proc. of 4<sup>th</sup> WSEAS International Conference on Applied Electromagnetics, Wireless and Optical Communications (ELECTROSCIENCE '06), pp. 11-16, CD-ROM paper No 539-480, Nov. 20-22, 2006, Venice, Italy.
- [C.34] I.Pountourakis, **P.Baziana**, G.Panagiotopoulos: “Propagation Delay and Receiver Collision Analysis in WDMA Protocols”, in Proc. of 5<sup>th</sup> International Symposium Communication Systems Networks and Digital Signal Processing (CSNDSP 2006), pp. 120-124, July 19-21, 2006, Patra Greece.
- [C.35] I.E.Pountourakis, **P.A.Baziana**: “Multi-channel Multi-access Protocols with Receiver Collision Markovian Analysis”, in Proc. of 9<sup>th</sup> WSEAS International Conference on Communications, Vouliagmeni, CD-ROM paper No 497-351, July 11-16, 2005, Athens, Greece. – Βραβείο Καλύτερης Εργασίας Συνεδρίου
- [C.36] **P.A.Baziana**, I.E.Pountourakis: “Multi-channel MAC protocol: Performance mathematical analysis and comparison”, in Proc. of 12<sup>th</sup> International Conference on Software, Telecommunications and Computer Networks (SoftCOM 2004), pp. 146-150, October 10-13, 2004, Dubrovnik-Split-Venice.
- [C.37] **Baziana P.**, Karavatselou E., Lymberopoulos D., Serpanos D.: “A new Methodology to Design Distributed Medical Diagnostic Centers”, in Proc. of 23<sup>rd</sup> Annual International Conference of the IEEE Engineering in Medicine and Biology Society, October 25-28, 2001, Istanbul, Turkey. (dx.doi.org/10.1109/IEMBS.2001.1019616)
- [C.38] **Baziana P.A**, Karavatselou E.I, Lymberopoulos D. K.: “A New Integrated Structure for the Control of Telematic Services”, in Proc. of 9<sup>th</sup> International Conference on Telecommunication Systems, Modeling and Analysis, March 15-18, 2001, Dallas, Texas, USA.

## Δημοσιεύσεις σε Κεφάλαια Βιβλίων

- [B.1] **Baziana P.A**: “How Do the Multiple Tunable Receivers per Node Affect the Efficiency of a WDM LAN? A Performance Analytical Study”, in E-Business and Telecommunications, Mohammad S. Obaidat, Pascal Lorenz (Eds.), 2016, Springer International Publishing, Series of Communications in Computer and Information Science (CCIS), Vol. 585, pp. 161–176, 2016. (dx.doi.org/10.1007/978-3-319-30222-5\_8)

## Ομιλίες σε Πανεπιστήμια – Διεθνή Συνέδρια Κατόπιν Πρόσκλησης

- [S.1] **Baziana P.A**: “Node and Control Architectures for the Receiver Collisions Elimination and the Performance Optimization of Optical WDM Networks”, Lecture in the X International Congress on Telematics and Telecommunications (CITTEL 2018), as part of the 19<sup>th</sup> Scientific Convention of Engineering and Architecture (19<sup>th</sup> CCIA), November 29, 2018, Havana, Couba.
- [S.2] **Baziana P.A**: “The Effect of Destination Conflicts in Asynchronous Transmission WDM LANs and MANs: A Performance Evaluation Study”, Lecture at the Beijing University of Post and Telecommunications (BUPT), April 25, 2018, Beijing, China.

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- [S.3] **Baziana P.A:** “Network Architectures for the Performance Improvement of Optical WDM Networks”, Lecture at the Beijing University of Post and Telecommunications (BUPT), September 27, 2017, Beijing, China.

## Βραβεύσεις

- [A.1] **Βραβείο Καλύτερης Εργασίας Συνεδρίου (Best Paper Award)** για την εργασία: “Performance Analysis of a WDMA Protocol with a Multiple Tunable Receivers Node Architecture for High-Speed Optical Fiber LANs”, *International Conference on Optical Communication Systems 2015 (OPTICS 2015)*, Colmar, France, July 2015.
- [A.2] **Θωμαΐδειο Βραβείο για την Πρόοδο Επιστημών και Τεχνών Έτους 2008**, για την εργασία: “An Efficient Metropolitan WDM Ring Architecture for a Slotted Transmission Technique” *IEEE Journal of Lightwave Technology*, Vol. 26, No. 19, pp. 3307-3317, Oct. 1, 2008.
- [A.3] **Θωμαΐδειο Βραβείο για την Πρόοδο Επιστημών και Τεχνών Έτους 2007**, για την εργασία: “Performance Optimization with Propagation Delay Analysis in WDM Networks” *Elsevier Computer Communications Journal*, Vol. 30, Issue 18, pp. 3572–3585, Dec 2007.
- [A.4] **Βραβείο Καλύτερης Εργασίας Συνεδρίου (Best Student Paper Award)** για την εργασία: “Multi-channel Multi-access Protocols with Receiver Collision Markovian Analysis”, *WSEAS International Conference on Communications*, Vouliagmeni, July 2005.

## Μέλος Επιστημονικών Οργανισμών

- Institute of Electrical and Electronics Engineers (I.E.E.E.)
- Τεχνικό Επιμελητήριο Ελλάδας

## Ξένες Γλώσσες

- Αγγλική Γλώσσα
- Γαλλική Γλώσσα