



Αναπλ. Καθηγητής Χ. Μεσαριτάκης

Πανεπιστήμιο Δυτικής Αττικής – Πολυτεχνική Σχολή

τμήμα Μηχανικών Βιοϊατρικής

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1. ΣΥΝΤΟΜΗ ΠΕΡΙΛΗΨΗ

Ο αναπληρωτής καθηγητής Χάρης Μεσαριτάκης έλαβε το πτυχίο του και το μεταπτυχιακό τίτλο σπουδών από το τμήμα Πληροφορικής και Τηλεπικοινωνιών και το τμήμα Φυσικής, αντίστοιχα του Εθνικού και Καποδιστριακού Πανεπιστημίου Αθηνών. Η διδακτορική του διατριβή είχε ως αντικείμενο τη θεωρητική και πειραματική μελέτη λέιζερ εγλειδωσης τρόπων βασισμένα σε κβαντικές τελείες για τηλεπικοινωνιακές και βιοϊατρικές εφαρμογές και πραγματοποιήθηκε στο τμήμα Πληροφορικής και Τηλεπικοινωνιών, στο εργαστήριο φωτονικής τεχνολογίας του ΕΚΠΑ. Έχει συμμετάσχει ως βασικός ερευνητής σε περισσότερα από 15 ευρωπαϊκά ερευνητικά προγράμματα FP6, FP7, H2020 και Horizon Europe. Το 2013 του απονεμήθηκε ευρωπαϊκή υποτροφία Marie-Curie για μεταδιδακτορική έρευνα στα ερευνητικά εργαστήρια της Thales (III-V labs - France), η οποία είχε ως αντικείμενο το σχεδιασμό παλμικών λέιζερ για συστήματα τηλεμετρίας μεγάλης ακριβείας. Αυτή την υποτροφία ακολούθησαν δύο εθνικές ανταγωνιστικές υποτροφίες για μετα-διδακτορική έρευνα: Έρευνες – Ίδρυμα Γιάννη Λάτση και ΕΛΙΔΕΚ 1^η υποτροφία για μεταδιδακτορες. Το ερευνητικό αντικείμενο και των δύο υποτροφιών αφορούσε τη μελέτη και υλοποίηση φωτονικών και ηλεκτρονικών νευρομορφικών συστημάτων για τηλεπικοινωνιακές και βιοϊατρικές εφαρμογές. Τώρα εκτελεί τα χρέη τεχνικού διευθυντή (technical manager) σε δύο ευρωπαϊκά ερευνητικά προγράμματα (H2020 NEoteRIC και Horizon PROMETHEUS) των οποίων ο βασικός πυρήνας είναι η ανάπτυξη ολοκληρωμένων νευρομορφικών συστημάτων με χρήση επαναδιατάξιμων φωτονικών στοιχείων και τεχνητών νευρώνων αντίστοιχα, κατάλληλα προσαρμοσμένων σε βιοϊατρικές εφαρμογές όπως η κυτταρομετρία ροής. Το 2024 έλαβε μια ακόμα υποτροφία ως μέλος ΔΕΠ από το ίδρυμα ΕΛΙΔΕΚ «χρηματοδότηση της βασικής έρευνας, Εθνικό Σχέδιο Ανάκαμψης και Ανθεκτικότητας» η οποία αφορά την ανάπτυξη νευρομορφικών συστημάτων για εφαρμογές ασφάλειας στο φυσικό επίπεδο.

Το 2019, εξελέγη αναπληρωτής καθηγητής στο τμήμα Μηχανικών Πληροφοριακών και Επικοινωνιακών Συστημάτων, της Πολυτεχνικής Σχολής του Πανεπιστημίου Αιγαίου, ενώ το 2024 εξελέγη αναπληρωτής καθηγητής στο τμήμα Μηχανικών Βιοϊατρικής της πολυτεχνικής σχολής του ΠΑΔΑ στο οποίο υπηρετεί σήμερα. Τα διδακτικά του καθήκοντα καλύπτουν ένα ευρύ φάσμα αντικειμένων τα οποία εκτείνονται από θεωρία κυκλωμάτων, ηλεκτρονικά συστήματα, ευρζωνικές και οπτικές επικοινωνίες, καθώς και φωτονικά και νευρομορφικά συστήματα. Τα ερευνητικά του ενδιαφέροντα μοιράζονται ανάμεσα στο σχεδιασμό και τη πειραματική υλοποίηση νευρομορφικών συστημάτων για την επεξεργασία βιοϊατρικών και τηλεπικοινωνιακών σημάτων καθώς και την μελέτη τεχνητών νευρώνων και δικτύων με χρήση φωτονικής τεχνολογίας. Από το 2020 είναι συνιδρυτής της ερευνητικής μονάδας Research Unit on Neuromorphic Computing and Photonics (RNCP) στο Παν. Δυτικής Αττικής.

Ο Χάρης Μεσαριτάκης είναι συγγραφέας περισσότερων από 110 δημοσιεύσεων σε διεθνή, υψηλής απήχησης περιοδικά και συνέδρια με κρίση, ενώ θέμα των δημοσιεύσεων αυτών είναι συστήματα υλικού για νευρομορφικές εφαρμογές, τεχνητοί φωτονικοί νευρώνες και δίκτυα, δυναμική λέιζερ κβαντικών τελειών. Είναι κάτοχος δύο διεθνών διπλωμάτων ευρεσιτεχνίας (PCI) με θέμα φωτονικά ολοκληρωμένα συστήματα για νευρομορφικές εφαρμογές και φωτονικά συστήματα για εφαρμογές ασφάλειας στο φυσικό επίπεδο. Είναι κριτής σε περιοδικά όπως το Nature Communications, Nature Photonics, Nature Physics, Communication Engineering καθώς και σε περιοδικά της IEEE, OPTICA, Elsevier και AIP. Είναι μέλος της OPTICA από το 2019 (Optical Society of America), ενώ είναι associate editor στο Optics Continuum της OPTICA.

2. ΑΚΑΔΗΜΑΙΚΟΙ ΤΙΤΛΟΙ

ΔΙΔΑΚΤΟΡΙΚΟ ΔΙΠΛΩΜΑ (PH.D)

Εθνικό και Καποδιστριακό Πανεπιστήμιο Αθηνών. Τμήμα Πληροφορικής και Τηλεπικοινωνιών – εργαστήριο φωτονικής τεχνολογίας

Τίτλος: «Θεωρητική και Πειραματική Μελέτη Λείζερ Κβαντικών Τελειών για Τηλεπικοινωνιακές και Βιοϊατρικές Εφαρμογές»

ΜΕΤΑΠΤΥΧΙΑΚΟΣ ΤΙΤΛΟΣ ΕΙΔΙΚΕΥΣΗΣ ΣΤΗ ΜΙΚΡΟΗΛΕΚΤΡΟΝΙΚΗ (MSc.)

Εθνικό και Καποδιστριακό Πανεπιστήμιο Αθηνών. Τμήμα Φυσικής και τμήμα Πληροφορικής και Τηλεπικοινωνιών

ΠΤΥΧΙΟ ΠΛΗΡΟΦΟΡΙΚΗΣ & ΤΗΛΕΠΙΚΟΙΝΩΝΙΩΝ (BS.)

Εθνικό και Καποδιστριακό Πανεπιστήμιο Αθηνών. Τμήμα Πληροφορικής και Τηλεπικοινωνιών

3. ΒΡΑΒΕΙΑ ΚΑΙ ΠΡΟΣΩΠΙΚΕΣ ΧΡΗΜΑΤΟΔΟΤΗΣΕΙΣ

EU-MARIE CURIE GRANT FP7-PEOPLE-IEF
ALCATEL-THALES- III-V Labs
Principal Investigator

2012 (Γαλλία)

NOMOS Project: “Design and realization of semiconductor mode-locked lasers for space-born telemetry and LIDAR applications”

HFRI – NATIONAL POST-DOCTORAL GRANT
University of the Aegean
Principal Investigator

2018 (Ελλάδα)

NEBULA Project: “Experimental and Numerical Investigation of Quantum-Dot based Neuromorphic nodes”

HFRI – NATIONAL ADVANCED GRANT
University of the Aegean
Principal Investigator

2024 (Ελλάδα)

QUASAR Project: “Photonic and electronic Neuromorphic and quantum circuits for physical layer security systems”

4. ΑΚΑΔΗΜΑΪΚΕΣ ΘΕΣΕΙΣ

ΠΑΝΕΠΙΣΤΗΜΙΟ ΔΥΤΙΚΗΣ ΑΤΤΙΚΗΣ
Μηχανικών Βιοϊατρικής.

Αθήνα, Ελλάδα
2025-σήμερα

- **Αναπληρωτής Καθηγητής** με αντικείμενο Φωτονικά Νευρομορφικά Συστήματα
- Συντονιστής HFRI QUASAR (2024-2026)
- Ερευνητής στα ευρωπαϊκά ερευνητικά προγράμματα (Horizon Europe): QPIC1550 και ECSTATIC

ΠΑΝΕΠΙΣΤΗΜΙΟ ΑΙΓΑΙΟΥ

Μηχανικών Πληροφοριακών & Επικοινωνιακών Συστημάτων

Σάμος, Ελλάδα
2019-2025

- **Αναπληρωτής Καθηγητής** (Φωτονικά Συστήματα και Κυκλώματα)
- Τεχνικός Διευθυντής H2020 NEoteRIC Project (2020-2024)
- Τεχνικός Διευθυντής HORIZON PROMETHEUS (2022-2025)
- Βασικός Ερευνητής HFRI NEBULA (2018-2021).

ΕΘΝΙΚΟ & ΚΑΠΟΔΙΣΤΡΙΑΚΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΑΘΗΝΩΝ

Πληροφορικής & Τηλεπικοινωνιών

Αθήνα, Ελλάδα
2006-Σήμερα

- Επισκέπτης Καθηγητής: Ασφαλή Τηλεπικοινωνιακά και Δικτυακά Συστήματα (MSc.)
- Επισκέπτης Καθηγητής: Ολοκληρωμένα Φωτονικά Συστήματα (MSc)
- Ερευνητής σε 7 FP6-FP7 EU ερευνητικά έργα στο χώρο της φωτονικής

EULAMBIA ADVANCED TECHNOLOGIES LTD.

Αθήνα, Ελλάδα
2017-2018

- Ερευνητής στα H2020 research projects (KONFIDO)

ΣΧΟΛΗ ΤΗΛΕΠΙΚΟΙΝΩΝΙΑΚΩΝ ΑΞΙΩΜΑΤΙΚΩΝ ΔΙΑΒΙΒΑΣΕΩΝ – ΕΚΠΑ

Αθήνα, Ελλάδα
2012-σήμερα

- Επισκέπτης Καθηγητής: Δίκτυα Υπολογιστών

ALCATEL-THALES III-V LABS

Γαλλία

Παρίσι,

2013-2014

- IEF Marie-Curie Postdoctoral Fellow: NOMOS project

5. ΔΗΜΟΣΙΕΥΣΕΙΣ ΣΕ ΔΙΕΘΝΗ ΠΕΡΙΟΔΙΚΑ ΜΕ ΚΡΙΣΗ

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2. A. Tsirigotis, G. Sarantoglou, S. Deligiannidis, E. Sanchez, A. Gutierrez, A. Bogris, J. Capmany, C. Mesaritakis, “Photonic Neuromorphic Accelerator for Convolutional Neural Networks based on an Integrated Reconfigurable Mesh” accepted for publication to **Nature Communication Engineering**, arXiv:2405.06434 (2024)
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6. ΚΕΦΑΛΑΙΑ ΣΕ ΔΙΕΘΝΗ ΕΠΙΣΤΗΜΟΝΙΚΑ ΣΥΓΓΡΑΜΜΑΤΑ

1. C. Mesaritakis, D. Syvridis, “Spectral Splitting Effects and Their Influence on the Performance of Quantum Dot Mode-Locked Lasers”, **Springer**, “Quantum Dot Devices - Lecture Notes in Nanoscale Science and Technology”, Vol. 13 (2012)

2. M. Akriotou, C. Mesaritakis, A. Kapsalis, E. Grivas, C. Chaintoutis, A. Fragkos, D. Syvridis, “Random Number Generation from a Secure Unclonable Hardware Module” **Springer**, Communications in Computer and Information Science Vol. 821, (2018)
3. C. Mesaritakis et al, “Secure Cross-Border Exchange of Health Related Data: The KONFIDO Approach” **Springer**, Internet and Distributed Computing Systems, DOI: 10.1007/978-3-030-34914-1_30 (2019)

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1. C. Mesaritakis, D. Syvridis " Photonic Physical Unclonable Function based on Multi-Mode Optical Waveguides” **GR patent** submitted on 26/7/2017 **Granted Ref. Number: 2017- 02623**
2. C. Mesaritakis, D. Syvridis " Photonic Physical Unclonable Function based on Multi-Mode Optical Waveguides” **PCT patent Ref. Number: PCT/IB2018/055546**
3. C. Mesaritakis, A. Bogris, P. Bienstman, “Photonic Integrated device for Signal Processing” Ref. Number **EPO/PCT Ref. Number: EP21195873.1**

8. ΔΗΜΟΣΙΕΥΣΕΙΣ ΣΕ ΠΡΑΚΤΙΚΑ ΔΙΕΘΝΩΝ ΣΥΝΕΔΡΙΩΝ ΜΕ ΚΡΙΣΗ

1. A. Tsirigotis, G. Sarantoglou, S. Deligiannidis, A. Bogris, E. Sanchez, A. Gutierrez, J. Capmany, C. Mesaritakis, “Neuromorphic Accelerator based on Reconfigurable Photonic Chip for high-speed Image Processing” **ECOC Frankfurt Germany 2024**
2. K. Sozos, F. Da Ros, M. P. Yankov, S. Deligiannidis, G. Sarantoglou, C. Mesaritakis, A. Bogris “Experimental Investigation of a M-QAM Receiver Based on Recurrent Optical Spectrum Slicing and Direct Detection” **ECOC Frankfurt Germany 2024**
3. C. Mesaritakis et al, “An efficient highly secure AI-based system for incident management for critical infrastructures” **IEEE IST - 2024**
4. K. Sozos, F. Da Ros, Metodi Yankov Stavros Deligiannidis, G. Sarantoglou, C. Mesaritakis and A. Bogris, “Recurrent Optical Spectrum Slicing Receiver for Intensity Modulation/Direct Detection systems using Programmable Photonics” **IPC-2024 (2024)**
5. C. Mesaritakis, I. Tsilikas, S. Deligiannidis, G.A. Karydis, D. Syvridis, A. Bogris “Dual-modality High-flow Imaging Scheme for cell discrimination combining neuromorphic 2D camera and NIR time-stretch imager” **PSHI- 2024 Athens Greece (2024)**

6. C. Mesaritakis, A. Tsilikas, A. Tsigiriotis, C. Posch, G. Branden, A. Bogris, “Neuromorphic Photonic Spectrum Slicing as a Convolutional Accelerator for Imaging Cytometry” **(invited) IEEE Summer topical meetings** – Sicily 2023
7. A. Bogris, K. Sozos, G. Sarantoglou, C. Mesaritakis “Neuromorphic computing by means of recurrent spectrum slicing for next generation high baud rate transmission systems” **(invited) IEEE Summer topical meetings** – Sicily 2023
8. I. Tsilikas, S. Deligiannidis, A. Tsigiriotis, G. N. Tsigaridas, A. Bogris, C. Mesaritakis, “Neuromorphic Camera Assisted High-Flow Imaging Cytometry for Particle Classification” **CLEO, Europe** – Munich 2023
9. I. Tsilikas, A. Tsigiriotis, S. Deligiannidis, G. N. Tsigaridas, A. Bogris, C. Mesaritakis, “Time-Stretched Imaging Flow Cytometry and Photonic Neuromorphic Processing for Particle Classification” **CLEO, Europe** – Munich 2023
10. A. Tsigiriotis, I. Tsilikas, K. Sozos, A. Bogris, C. Mesaritakis, “Photonic Neuromorphic Accelerator Combined with an Event-Based Neuromorphic Camera for High-Speed Object Classification” **CLEO, Europe** – Munich 2023
11. S. Deligiannidis, N. Argyris, S. Dris, D. Kalavrouziotis, P. Bakopoulos, C. Mesaritakis, A. Bogris, “Deep-Learning-based VCSEL transmitter emulator” **CLEO, Europe** – Munich 2023
12. K. Sozos, S. Deligiannidis, C. Mesaritakis, A. Bogris, “Unconventional Computing based on Four Wave Mixing in Highly Nonlinear Media” **CLEO, Europe** – Munich 2023
13. C. Mesaritakis, G. Sarantoglou, A. Bogris “Bayesian Training in Reconfigurable Photonic Neuromorphic Meshes”, **(invited) IEEE Workshop on Complexity in Engineering (COMPENG)**, Florence-Italy (2022)
14. M. Skontranis, G. Sarantoglou, A. Bogris, C. Mesaritakis “Spectro-temporally Multiplexed Reservoir Computing Based on a Multimode Fabry Perot Laser” **ECOC Basel** – Switzerland 2022
15. A. Bogris, K. Sozos, S. Deligiannidis, G. Sarantoglou, C. Mesaritakis, “Machine Learning and Neuromorphic Computing Approaches for the mitigation of transmission impairments in high baud rate transmission systems,” **ECOC 2022** (Invited)
16. G. Sarantoglou, K. Sozos, T. Kamalakis, C. Mesaritakis, A. Bogris, “Experimental demonstration of an extreme learning machine based on Fabry Perot lasers for parallel neuromorphic processing” **OFC 2022**, San Francisco USA

17. A. Tsirigotis, I. Tsilikas, K. Sozos, A. Bogris, C. Mesaritakis “Filter-Based Photonic Reservoir Computing as a key-enabling platform for all-optical high-speed processing of time-stretched images and telecomm data” **(invited) SPIE Photonics West**, 120190G, doi.org/10.1117/12.2607438, AI and Optical Data Sciences III, San Francisco USA 24-26 February 2022.
18. A. Bogris, T. Nikas, C. Simos, I. Simos, K. Lentas, N. S Melis, A. Fichtner, D. C Bowden, K. T Smolinski, C. Mesaritakis, “Microwave Frequency Fiber Interferometry (MFFI): A Promising Technique for Earthquake detection in Commercially Deployed Cables” **AGU Fall Meeting Abstracts**, S16A-01 (2022)
19. K. Sozos, A. Bogris, P. Bienstman, C. Mesaritakis, “Photonic Reservoir Computing based on Optical Filters in a Loop as a High Performance and Low-Power Consumption Equalizer for 100 Gbaud Direct Detection Systems” **ECOC, Bordeaux France 2021**
20. C. Mesaritakis, Adonis Bogris “Neuromorphic Schemes for Next-Generation Telecommunication and Security Applications” **(invited) ECOC 2021, Bordeaux France 2021**
21. A. Bogris, K. Sozos, A. Tsirigotis, C. Mesaritakis, “Neuromorphic Integrated Photonics as Hardware Accelerators for Ultra-high Speed Telecom and Imaging Applications” **Photonics in Switching and Computing, OSA Virtual Conference (invited) (2021)**
22. M. Skontranis, G. Sarantoglou, A. Bogris, C. Mesaritakis, “Photonic Spiking Convolutional Neural Networks for High-Speed Image Processing” **(Invited) IEEE Summer Topical Meetings 2021** 19-21 July Virtual Conference (2021)
23. C. Mesaritakis, K. Sozos, D. Dermanis, A. Bogris, “Spatial Photonic Reservoir Computing based on Non-Linear Phase-to-Amplitude Conversion in Micro-Ring Resonators” **OFC USA 2021**
24. K. Sozos, C. Mesaritakis, A. Bogris, “Reservoir Computing based on Mutually Injected Phase Modulated Lasers: A monolithic integration approach suitable for short-reach communication systems”, **OFC USA 2021**
25. Y. Hong; S. Deligiannidis; N. Taengnoi; K. Bottrill; N. Thipparapu; Y. Wang; J. Sahu; D. Richardson; C. Mesaritakis; A. Bogris; P. Petropoulos, «Performance-enhanced Amplified O-band WDM Transmission using Machine Learning based Equalization» **CLEO San Hose-USA (2021)**,
26. G. Sarantoglou, M. Skontranis, A. Bogris, C. Mesaritakis, “Resonate and Fire Neuromorphic Node based on two - section Quantum Dot Laser with multi-waveband dynamics” **ECOC-CLEO, Brussels (2020)**
27. Stavros Deligiannidis, Charis Mesaritakis, Adonis Bogris, “Performance and Complexity Evaluation of Recurrent Neural Network Models for Fibre Nonlinear Equalization in Digital Coherent Systems” **ECOC-CLEO, Brussels (2020)**

28. C. Mesaritakis, M. Skontranis, G. Sarantoglou, A. Bogris, “Micro-Ring-Resonator Based Passive Photonic Spike-Time- Dependent-Plasticity Scheme for Unsupervised Learning in Optical Neural Networks” **OFC USA** – San Diego, March (2020)
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31. M. Skontranis, G. Sarantoglou, C. Mesaritakis, “Inhibitory Integrate and Fire Neuron based on Quantum-Dot Intra-Band Transitions in a Semiconductor Laser” **CLEO/EQEC Europe**, Munich-Germany (2019)
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33. C. Mesaritakis, M. Akriotou, D. Syvridis, “Laser Induced Speckle as a Foundation for Physical Security and Optical Computing” **IEEE PSC2018** Photonics in Switching and Computing, Limassol Cyprus (2018)
34. D. Syvridis, C. Mesaritakis, “Quantum-Dot Laser Assisted Spiking Neural Networks” **IEEE International Conference in Laser Optics (ICLO)**, - Invited – St. Petersburg Russia (2018).
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36. J. Rasmussen, P. Natsiavas, K. Votis, K. Moschou, P. Campegnani, L. Coppolino, I. Cano, D. Marí, G. Faiella, O. Stan, O. Abdelrahman, M. Nalin, I. Baroni, M. Voss-Knude, V.A. Vella, E. Grivas, C. Mesaritakis, J. Dumortier, J. Petersen, D. Tzovaras, L. Romano, I. Komnios and V. Koutkias, “Gap Analysis for Information Security in Interoperable Solutions at a Systemic Level: The KONFIDO Approach”, in IFMBE Proceedings of the Int. Conf. on Biomedical and Health Informatics, Thessaloniki, Greece, November 18-21, 2017, **Springer-Verlag** Berlin Heidelberg, 2017 (in press)
37. D. Syvridis, C. Mesaritakis, “Neuromorphic Photonics based on Quantum-Dot Devices”, **Control of Self-Organizing Nonlinear Systems**, Wittenberg-Germany - Invited - (2017)

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39. C. Mesaritakis, M. Akriotou, E. Grivas, D. Syvridis “Cryptographic Key Generation from a Photonic Physical Unclonable Function based on High-Order Transverse Modes” **KES-IIMSS** Algarve-Portugal (2017).
40. C. Mesaritakis, A. Kapsalis, M. Akriotou, D. Syvridis “Physical Unclonable Functions as Key Generator for Cryptographic Applications”, **3rd International Conference on Cyber Security** CryCybiW Athens-Greece (2016)
41. C. Mesaritakis, A. Kapsalis, D. Syvridis “All-Optical Reservoir Computing system based on InGaAsP Ring Resonators for High-Speed Identification and Optical Routing in Optical Networks” **SPIE Photonics West**, San Francisco USA, (2015)
42. A. Kapsalis, C. Mesaritakis, D. Syvridis “Converting mid-infrared signals to near-infrared through optomechanical transduction” **SPIE Photonics West**, San Francisco USA, (2015)
43. C. Mesaritakis, A. Bogris, D. Syvridis, “All optical Dual-Wavelength Switching and Injection Locking of InAs/InGaAs Passively Mode-Locked Quantum Dot Fabry-Perot Lasers” **CLEO CB-P** Munich Germany (2015)
44. C. Mesaritakis, D. Syvridis “Optical Pattern Recognition System based on Reservoir Computing Scheme Using Micro-Ring Resonators as Building Blocks” **EUROPTRODE XII**, Athens Greece April (2014)
45. C. Mesaritakis, A. Kapsalis, D. Syvridis, “Silicon-on-Insulator Microring Resonator All-Optical Reservoir Computing Scheme for High-Speed Applications” Conference: **IEEE International Conference on group IV Photonics**, At Cité Internationale Universitaire de Paris, Paris France (2014)
46. C. Mesaritakis, A. Kapsalis, C. Simos, H. Simos, M. Krakowski, and D. Syvridis “Optimized InAs/AlGaAs Quantum Dot Semiconductor Optical Amplifier Tapered Geometry For Enhanced Beam Quality and Optical Gain” **CLEO** 2013 May – Munich Germany
47. L. Drzewietzki, S. Breuer, M. Rossetti, T. Xu, P. Bardella, H. Simos, C. Mesaritakis, M. Ruiz, I. Krestnikov, D. Livshits, M. Krakowski, D. Syvridis, I. Montrosset, E. Rafailov, and W. Elsaßer, “Picosecond pulse generation with 34W peak power using a monolithic quantum-dot tapered mode-locked laser and tapered optical amplifier” **CLEO** 2013 May – Munich Germany
48. H. Simos, C. Simos, C. Mesaritakis, D. Syvridis “Numerical Investigation of Timing Jitter in Passively Mode Locked Quantum Dot Lasers with Anti-Colliding Design” **IS-PALD**, Paris-France (2013)

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50. Y. Ding, M. A. Cataluna, D. Nikitichev, M. Ruiz, M. Tran, Y. Robert, A. Kapsalis, H. Simos, C. Mesaritakis, T. Xu, P. Bardella, M. Rossetti, I. Krestnikov, D. Livshits, I. Montrosset, D. Syvridis, M. Krakowski, E. Rafailov “Tunable Master-Oscillator Power Amplifier Using All Chirped Quantum-Dot Structures” **CLEO** 2012 San Jose, USA
51. Y. Ding, M. A. Cataluna, D. Nikitichev, M. Ruiz, M. Tran, Y. Robert, A. Kapsalis, H. Simos, C. Mesaritakis, T. Xu, P. Bardella, M. Rossetti, I. Krestnikov, D. Livshits, I. Montrosset, D. Syvridis, M. Krakowski, E. Rafailov “30-W Peak Power Generated from All-quantum-dot Master-oscillator Power-amplifier System for Nonlinear Bio-imaging Applications” **CLEO** 2012 San Jose, USA
52. A. E. Zhukov, N. V. Kryzhanovskaya, A. V. Savelyev, A. M. Nadtochiy, E. M. Arakcheeva, F. I. Zubov, V. V. Korenev, M. V. Maximov, Y. M. Shernyakov, M. M. Kulagina, I. A. Slovinskiy, D. A. Livshits, A. Kapsalis, C. Mesaritakis, D. Syvridis, A. M. Mintairov, “Quantum dot lasers and relevant nanoheterostructures” **SPIE, Semiconductor Lasers and Applications V**, Beijing, China, November 05, (2012)
53. A. E. Zhukov, N. V. Kryzhanovskaya, A. V. Savelyev, A. M. Nadtochiy, E. M. Arakcheeva, F. I. Zubov, V. V. Korenev, M. V. Maximov, Y. M. Shernyakov, M. M. Kulagina, I. A. Slovinskiy, D. A. Livshits, A. Kapsalis, C. Mesaritakis, D. Syvridis, A. M. Mintairov, “Quantum dot lasers and relevant nanoheterostructures” **SPIE, Progress in Biophotonics**, Beijing, China, November 05, (2012)
54. A. Kapsalis, H. Simos, C. Mesaritakis and D. Syvridis, "Optical Microring resonators for telecom sensing and metrology applications: Theory, Design and Experimental Results", **5th International Conference on Micro-Nanoelectronics, Nanotechnologies and MEMS** (Micro & Nano 2012), Heraklion, Crete, October (2012).
55. A. Kapsalis, C. Mesaritakis and D. Syvridis “Active-Passive Integrated Microring Lasers”, **ECLW** September, Lausanne Switzerland. (2011)
56. C. Mesaritakis, H. Simos, A. Kapsalis, D. Syvridis " Micro Ring Biochemical Sensor Based on Fano Resonances and Nanoslot Waveguides" **EOS annual meeting TOM1 Biophotonics** Paris France September (2008).

9. ΠΡΟΣΚΕΚΛΗΜΕΝΕΣ ΟΜΙΛΙΕΣ ΣΕ ΔΙΕΘΝΗ ΣΥΝΕΔΡΙΑ

1. C. Mesaritakis, “Reconfigurable Silicon Photonics Platform for the implementation of Novel Neuromorphic Schemes” **IEEE Microwave-Photonics** Nanjing – China 2023

2. C. Mesaritakis, “Neuromorphic Engineering for Biomedical Applications” **National Conference of Medical Physics**, Athens – Greece 2023
 3. C. Mesaritakis, “Spatial Reservoir Computing, the spectrum slicer accelerator paradigm” **Mini-Symposium Integrated photonic reservoir computing for telecom applications** organized by IMEC, Belgium 2023
 4. C. Mesaritakis, “Photonic Integrated Accelerators based on spectro-temporal Processing for Telecom and Machine-Vision Applications” **2nd Workshop on Neuromorphic Photonics**, Athens-Greece 2021
 5. C. Mesaritakis “Spatial reservoir computing based on a reconfigurable neuromorphic platform for high speed signal processing” **1st Workshop on Neuromorphic Photonics**, Thessaloniki-Greece 2021
 6. C. Mesaritakis “Neuromorphic Photonic Circuits as an enabling technology for near future high-speed optical links” **JWOC 2021, Paris-SanClay France** (2021)
 7. C. Mesaritakis “Passive Photonic Components as Building Blocks for Ultra-Fast Reservoir Computing and as Photonic Spike Dependent Plasticity Enabling Structures” **ERC International Workshop – Invited - Photonic Reservoir Computing and Information Processing in Complex Networks, Trento-Italy** (2019)
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10. ΕΠΙΒΛΕΨΗ ΥΠΙ. ΔΙΔΑΚΤΟΡΩΝ

Επιβλέπων

1. George Sarantoglou (University of the Aegean) thesis title “Photonic Components for Neuromorphic Engineering” (2024 - graduated)
2. Menelaos Skontranis (University of the Aegean) thesis title “Photonic Reservoir Computing for bio-inspired data processing” (2024 - graduated)
3. Dermanis Dimitrios (University of the Aegean) thesis title “Neuromorphic Systems for cyber-physical security” (2024 - pending)
4. Aris Tsirigotis (University of the Aegean) thesis title “Neuromorphic photonic schemes for biomedical analysis” (2025 - graduated)
5. Nikolaos Tzekas (University of West Attica) thesis title “Reconfigurable Photonics for Neuromorphic Applications) (2025 - pending)

Συνεπιβλέπων

1. Kostas Sozos (University of West Attica - graduated)
2. Ioannis Tsilikas (National Technical University of Athens)

3. Panagiotis Georgiou (University of Patras)
 4. Moustakas Giorgos (University of West Attica)
-

11. ΕΥΡΩΠΑΪΚΑ ΚΑΙ ΕΘΝΙΚΑ ΕΡΕΥΝΗΤΙΚΑ ΠΡΟΓΡΑΜΜΑΤΑ

1. **EU Horizon Europe PROMETHEUS** (Τεχνικός Διευθυντής – Παν. Αιγαίου)
 2. **EU Horizon Europe ECSTATIC** (Βασικός Ερευνητής – ΠΑΔΑ)
 3. **EU Horizon Europe QPIC1550** (Βασικός Ερευνητής – ΠΑΔΑ)
 4. **EU H2020 NEoteRIC** (Τεχνικός Διευθυντής – Παν. Αιγαίου)
 5. **National HFRI QUASAR Advanced Grant** (Συντονιστής – Παν. Αιγαίου)
 6. **National GSRT – SAFE-IT** (Βασικός Ερευνητής – Παν. Αιγαίου)
 7. **National HFRI – NOOK** (Βασικός Ερευνητής – ΠΑΔΑ)
 8. **National HFRI – NEBULA** (Συντονιστής – Εθνικό & Καποδιστριακό Πανεπιστήμιο Αθηνών)
 9. **EU H2020 KONFIDO** (Βασικός Ερευνητής – EULAMBIA ltd.)
 10. **EU H2020 SMILE** (Βασικός Ερευνητής – EULAMBIA ltd.)
 11. **EU IEF MARIE CURIE Fellowship NOMOS** (Συντονιστής – Thales -III/V Labs)
 12. **National J. Latsis Foundation Studies PROMITHEAS** (Βασικός Ερευνητής – Εθνικό & Καποδιστριακό Πανεπιστήμιο Αθηνών)
 13. **EU FP7 DOGGIES** (Βασικός Ερευνητής – Εθνικό & Καποδιστριακό Πανεπιστήμιο Αθηνών)
 14. **EU FP7 CLARITY** (Ερευνητής – Εθνικό & Καποδιστριακό Πανεπιστήμιο Αθηνών)
 15. **EU FP6 IP FAST DOT** (Ερευνητής – Εθνικό & Καποδιστριακό Πανεπιστήμιο Αθηνών)
 16. **EU FP6 PICASSO** (Ερευνητής – Εθνικό & Καποδιστριακό Πανεπιστήμιο Αθηνών)
 17. **EU FP6 WAPITI** (Ερευνητής – Εθνικό & Καποδιστριακό Πανεπιστήμιο Αθηνών)
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