

## Christos Simos

Associate Professor, Dept. of Physics, University of Thessaly  
Head of "Electronics & Photonics Laboratory" (PhotonXLab)

### Field of Expertise

Photonics & Lasers

### Contact

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Google scholar: <https://scholar.google.com/citations>

### Summary

Christos Simos received the B.Sc. degree in Physics from the University of Athens (Greece), DEA in High Frequency Electronics & Optoelectronics and PhD in Photonics from the University of Limoges (France) in 1995, 1996 and 2002 respectively. He was postdoctoral research fellow in the Laboratoire des Propriétés Optiques de Matériaux & Applications (Angers, France) from 2002-2003. From 2003-2006 he was Senior Scientist in Forth Photonics S.A. (Athens, Greece), involved in the development of spectral imaging systems for medical diagnostics. From 2006 to 2019 he was with the Department of Electronic Engineering, Technological Educational Institute of Central Greece. Currently he is an Associate Professor in the Dept. of Physics, University of Thessaly, Greece and head of "Electronics & Photonics" Laboratory. His current research interests include pulsed lasers and photonic sensors. He is co-author of more than 80 publications in journals, conferences and proceedings.

### Academic Qualifications

- 2002: PhD in Photonics  
University of Limoges (France)  
PhD Thesis: "Ultrafast all-optical processing of optical signals using 2<sup>nd</sup> order nonlinear effects: optical sampling and optical switching by means of spatial solitons" "
- 1996: DEA en «Electronique des Hautes Fréquences et Optoélectronique»,  
University of Limoges (France)
- 1995: B.Sc. in Physics  
National and Kapodistrian University of Athens (Greece)

### Previous Appointments

2021- : Associate Professor  
Dept. of Physics, University of Thessaly, Greece  
2019-2021: Assistant Professor  
Dept. of Physics, University of Thessaly, Greece  
2011-2019: Lecturer/Assistant Professor  
Dept. of Electronic Eng., Technol. Educ. Inst. of Central Greece  
2008-2018: Research Associate  
Opt. Communications Laboratory, Dept. of Informatics & Telecom., Univ. of Athens (Greece)  
2006-2011: Teaching Associate

- Dept. of Primary Education, Univ. of Thessaly, Greece (2007-2010)
- Greek Open University (2007-2008)
- Dept. of Electronics & Dept of Informatics, TEI of Lamia, Greece (2006-2011)

2003-2006: Senior Scientist  
Forth-Photonics Hellas SA (Athens, Greece)  
2002-2003: Post-Doctoral Research Fellow  
POMA laboratory, Univ. of Angers, France  
1998-2002: Teaching Associate  
BTS Génie Optique, Chambre de Commerce & Industrie, (Angoulême, France)

**Participation in research programs**

- COST Action MP1401, “Advanced fibre laser and coherent sources as tools for society, manufacturing and life science”, Greek Management Committee Substitute Member, (2015-2018)
- INAIPS (FP7-Joint Technology Initiatives - Clean Sky, JTI-CS-2012-2-SFWA-01-052), “Innovative aircraft ice protection system - sensing and modeling” (NKUA, 2014-2015)
- DOGGIES, (FP7 - SECURITY, Artificial Sniffer, Capability Program, 285446), «Detection of Olfactory traces by orthoGonal Gas identification technologiES» (NKUA, 2012-2014)
- CLARITY (FP7-ICT-2011-7: Core and Disruptive Technologies, 288304), «Compact uLtrA-efficient mid-infRared photonic sysTEms based on low noise quantum cascade laser sources, wide band frequency converters and near-infrared photodetectors», (NKUA, 2011-2012)
- FAST DOT, (FP7-ICT-2007-2: Photonic components and subsystems, 224338), «Compact Ultrafast Laser Sources Based On Novel Quantum Dot Structures», (NKUA, 2010-2012)
- DebugIT (FP7-ICT, Advanced ICT for risk assessment and patient safety, 217139), «Detecting and Eliminating Bacteria UsinG Information Technology» (TEI of Lamia, 2008-2011)
- HERON, «Greek Industrial Research Project for the Development of Spectral Imaging Diagnostic Devices» (Forth Photonics Hellas S.A., 2003-2006)
- Inter-Regional Research Program (PRII) Bretagne - Pays de La Loire, «Hybrid materials from porous silicon/silica matrices and polymers, with strong nonlinear response for sensors and telecommunication systems” (POMA Laboratory-UMR CNRS 6136, Angers, France, 2002-2003)
- ROSA (FP5, FET O: Open domain, IST-2000-26005), «Ultrafast all-optical signal processing in engineered quadratic nonlinear waveguides», (IRCOM, Limoges, France, 2000-2002)

**Research & Scientific Activities**

- Current Research Interests
  - Seismic sensors by means of telecommunication fibre cables
  - Mode-locked lasers: Modelling, characterization & applications
  - Coupled semiconductor lasers
  - Photonic sensors
- Reviewer for scientific journals:
  - Optics Communications (Elsevier)
  - Journal of Communication Engineering and Networks -JCEN (Bowen Publishing)
  - Physical Science International Journal (Science Domain International)
  - Optics & Laser Technology (Elsevier)
  - Optical Fiber Technology (Elsevier)
  - IEEE Photonics Journal
  - Optical Materials Express (OSA)
  - Applied Optics (OSA)
  - IEEE Sensors Journal
  - IEEE Journal of Selected Topics in Quantum Electronics
  - OSA Continuum
  - Photonics (MDPI)
- Co-Guest Editor in the Special Issue “Mode locked Lasers” (MDPI Photonics)
- Topic Editor:
  - Coatings (MDPI)
  - Photonics (MDPI)
- Conference Program Committee member:
  - OPAL 2018-2022
  - SCINTE 2015)
- Reviewer for national/international funding organizations:
  - Research Promotion Foundation, RPF-IRIS, Cyprus,
  - Agence Nationale de la Recherche (ANR), France,
  - General Secretariat for Research and Innovation (GSRT), Greece
- Member of 4 Electing Committees in Greek Universities (member of the Evaluation Committee in 2 of them)
- Scientific Committee member («Rapporteur») & thesis defence examiner of 2 PhD's theses in the Univ. of Limoges, France

- Head of “Electronics & Photonics Laboratory” (2019- )

**Current  
Teaching  
Activities in the  
Dept. of Physics**

- Undergraduate Courses
  - Laser Physics
  - Optoelectronics/Photonics
  - Electronics (+ laboratory classes)
- Postgraduate Courses
  - Photonics & Lasers
- Supervisor of 2 PhD Candidates
- Member of Scientific Advisory Board of 3 PhD Theses

**Teaching  
Experience**

- Teaching of the following University courses since 2006:
  - University of Thessaly
    - Electronics (+ Laboratory) (1 sem.)
    - Physics Laboratory - Mechanics (2 sem.)
    - Physics Laboratory - Wave Physics & thermodynamics (3 sem.)
    - Basic Conceptual Physics (3 sem.)
  - TEI of Central Greece
    - High Frequency Electronics (11 sem.)
    - Automatic Control Systems (11 sem.)
    - Sound and Image Systems (11 sem.)
    - Low Frequency Electronics (2 sem.)
    - Analog Electronics (2 sem.)
    - Biomedical Electronics (2 sem.)
    - Electromagnetism (2 sem.)
    - Antennas (4 sem.)
    - Telecommunication Systems (8 sem.)
    - Microwaves (4 sem.)
    - Telecommunications (4 sem.)
    - Digital Signal Processing (4 sem.)
  - Greek Open University
    - Classical Physics II: Waves, Optics, Special & General Relativity, Modern Physics (Quantum Physics, Atomic & Nuclear Physics) (1 acad. year)
  - BTS Génie Optique (Chambre de Commerce & Industrie, Angoulême, France)
    - Laboratory of Geometrical Optics (4 εξ)
    - Optics & Photonics (2 sem.)
    - Laboratory of Coherent Optics (2 sem.)
- Supervisor in Undergraduate Theses
  - ~ 40 Bachelor Dissertations since 2011

**Publications**

- Publications/Conferences
  - 35 publications in peer reviewed journals
  - 10 proceedings, digests & technical editions
  - 39 reviewed conference communications
  - 1 book chapter
  - 1 invited presentation in a workshop
  - 1 seminal
- Citations (Google Scholar)
  - 366 citations (h-index = 11, i10-index = 12).

**Scientific Journals**

[J-35]

Iraklis Simos, Christos Simos, and Nikolaos A. Stathopoulos, "Investigation of locked operation in a system of two passively mode-locked semiconductor lasers under weak lateral coupling," J. Opt. Soc. Am. B 39, 2457-2463 (2022),  
<https://doi.org/10.1364/JOSAB.463056>

[J-34]

Andreas Fichtner, Adonis Bogris, Daniel Bowden, Konstantinos Lentas, Nikolaos S Melis, Thomas Nikas, Christos Simos, Iraklis Simos, Krystyna Smolinski, Sensitivity kernels for transmission fibre optics, Geophysical Journal International, Volume 231, Issue 2, December 2022, Pages 1040-1044, <https://doi.org/10.1093/gji/ggac238>

[J-33]

Bogris, A.; Nikas, T.; Simos, C.; Simos, I.; Lentas, K.; Melis, N. S.; Fichtner, A.; Bowden, D.; Smolinski, K.; Mesaritakis, C. & Chochliouros, I. Sensitive seismic sensors based on microwave frequency fiber interferometry in commercially deployed cables, Scientific Reports, Nature Publishing Group, 2022, 12, 14000 ,  
<https://doi.org/10.1038/s41598-022-18130-x>

[J-32]

Daniel C. Bowden, Andreas Fichtner, Thomas Nikas, Adonis Bogris, Christos Simos, Krystyna Smolinski, Maria Koroni, Konstantinos Lentas, Iraklis Simos, Nikolaos S. Melis Linking distributed and integrated fiber-optic sensing. Geophysical Research Letters, 49, 2022) e2022GL098727. <https://doi.org/10.1029/2022GL098727>

[J-31]

Andreas Fichtner, Adonis Bogris, Thomas Nikas, Daniel Bowden, Konstantinos Lentas, Nikolaos S Melis, Christos Simos, Iraklis Simos, Krystyna Smolinski, Theory of phase transmission fibre-optic deformation sensing, Geophysical Journal International, Volume 231, Issue 2, December 2022, Pages 1031-1039,  
<https://doi.org/10.1093/gji/ggac237>

[J-30]

Simos, C., Simos, I. & Georgiou, G., Delay differential equations enriched with nonlinear gain compression for passively mode-locked semiconductor lasers. Opt Quant Electron 53, 30 (2021). <https://doi.org/10.1007/s11082-020-02688-9>

[J-29]

I. H. Simos and C. Simos, "Synchronization Dynamics of Mutually Injected Passively Mode-Locked Semiconductor Lasers", IEEE Journal of Quantum Electronics, vol. 54, no. 6, pp. 1-7, Dec. 2018, Art no. 2001106. <https://doi.org/10.1109/JQE.2018.2874085>

[J-28]

Christos Simos, Hercules Simos and Dimitris Syvridis: "Sub-wavelength resolution dynamics of semiconductor passively mode-locked lasers induced by optical feedback", Appl. Phys. B (2017) 123:222 <https://doi.org/10.1007/s00340-017-6793-9>

[J-27]

Ph. Rigaud, V. Kermene, Ch. Simos, A. Desfarges-Berthelemot, G. Bouwmans, L. Bigot, A. Hideur and A. Barthelemy, "Dual-wavelength synchronous ultrashort pulses from a mode-locked Yb-doped multicore fiber laser with spatially dispersed gain", Opt. Express 23(19), 25308-25315 (2015), <https://doi.org/10.1364/oe.23.025308>

[J-26]

Hercules Simos, Christos Simos, Charis Mesaritakis and Dimitris Syvridis: "Amplitude and timing noise in a 1.3  $\mu\text{m}$  non-colliding passively mode-locked quantum dot laser", IEEE Photonics Technology Letters, Vol. 27, no 5, pp.506-509, 1 March 2015,  
<https://doi.org/10.1109/LPT.2014.2383433>

[J-25]

Christos Simos, Hercules Simos, Thomas Nikas, Dimitris Syvridis: "Displacement sensing

by repetition rate pulling in a passively mode locked laser under feedback", IEEE Photonics Technology Letters, Vol. 26, no 24, pp.2418-2421, 15 December 2014, Print ISSN: 1041-1135, Online ISSN: 1941-0174, <https://doi.org/10.1109/LPT.2014.2354694>

[J-24]

C. Simos, H. Simos, C. Mesaritakis, A. Kapsalis D. Syvridis: "Pulse and noise properties of a two section passively mode-locked quantum dot laser under long delay feedback", Optics Communications, Vol. 313, 15 February 2014, Pages 248-255  
<https://doi.org/10.1016/j.optcom.2013.10.034>

[J-23]

Mesaritakis, Charis; Kapsalis, Alexandros; Simos, Hercules; Simos, Christos; Krakowski, Michel; Krestnikov, Igor; Syvridis, Dimitris, Tapered InAs/InGaAs quantum dot semiconductor optical amplifier design for enhanced gain and beam quality, Optics Letters, Vol. 38 Issue 14, pp.2404-2406 (2013) <https://doi.org/10.1364/OL.38.002404>

[J-22]

H. Simos, M. Rossetti, C. Simos, C. Mesaritakis, T. Xu, P. Bardella, I. Montrosset and D. Syvridis, "Numerical Analysis of Passively Mode-Locked Quantum-Dot Lasers with Absorber Section at the Low-Reflectivity Output Facet" IEEE Journal of Quantum Electronics, vol. 49, pages 3-10, Jan. 2013,  
<https://doi.org/10.1109/JQE.2012.2222352>

[J-21]

C. Mesaritakis, C. Simos, H. Simos, A. Kapsalis, E. Roditi, I. Krestnikov, D. Syvridis: "Effect of the number of quantum dot layers and dual state emission on the performance of InAs/InGaAs passively mode-locked lasers", Appl. Phys. Lett. 101, 251115 (4 pages), (Dec. 2012); <https://doi.org/10.1063/1.4772592>

[J-20]

Hercules Simos, Christos Simos, Charis Mesaritakis and Dimitris Syvridis, «Two Section Quantum Dot Mode Locked Lasers Under Optical Feedback: Pulse Broadening and Harmonic Operation», IEEE Journal of Quantum Electronics, vol 48, pages, 872-877, Jul. 2012, <https://doi.org/10.1109/JQE.2012.2193387>

[J-19]

Charis Mesaritakis, Christos Simos, Hercules Simos, Igor Krestnikov and Dimitris Syvridis: "External optical feedback-induced wavelength selection and Q-switching elimination in an InAs/InGaAs passively mode locked quantum dot laser", J. Opt. Soc. Am. B, Vol. 29, No. 5, pp. 1071-1077, (May 2012)  
<https://doi.org/10.1364/JOSAB.29.001071>

[J-18]

Charis Mesaritakis, Christos Simos, Hercules Simos, Igor Krestnikov, and Dimitris Syvridis: "Dual ground-state pulse generation from a passively mode-locked InAs/InGaAs quantum dot laser", Appl. Phys. Lett. 99, 141109 (Oct 2011);  
<https://doi.org/10.1063/1.3643523>

[J-17]

Antonis, Konstantinos; Daradoumis, Thanasis; Papadakis, Spyros; Simos, Christos: "Evaluation of the Effectiveness of a Web-based Learning Design for Adult Computer Science Courses", IEEE Transactions on Education, vol. 54, issue 3, pp. 374-380 (August 2011) <https://doi.org/10.1109/TE.2010.2060263>

[J-16]

Charis Mesaritakis, Apostolos Argyris, Christos Simos, Hercules Simos, Alexandros Kapsalis, Igor Krestnikov and Dimitris Syvridis: "Chaotic emission and tunable self-sustained pulsations in a two-section Fabry-Perot quantum dot laser", Appl. Phys. Lett. 98, 051104 (Jan 2011); <https://doi.org/10.1063/1.3552962>

[J-15]

Charis Mesaritakis, Christos Simos, Hercules Simos, Spiros Mikroulis, Igor Krestnikov, Eugenia Roditi, and Dimitris Syvridis: "Effect of optical feedback to the ground and excited state emission of a passively mode locked quantum dot laser", Appl. Phys. Lett. 97, 061114 (2010); <https://doi.org/10.1063/1.3477955>

[J-14]

Cataluna, Maria Ana; Nikitichev, Daniil I; Mikroulis, Spiros; Simos, Hercules; Simos, Christos; Mesaritakis, Charis; Syvridis, Dimitris; Krestnikov, Igor; Livshits, Daniil; Rafailov, Edik U: "Dual-wavelength mode-locked quantum-dot laser, via ground and excited state transitions: experimental and theoretical investigation", Optics Express, Vol. 18 Issue 12, pp.12832-12838 (07 June 2010), <https://doi.org/10.1364/OE.18.012832>

[J-13]

Charis Mesaritakis, Christos Simos, Hercules Simos, Spiros Mikroulis, Igor Krestnikov, and Dimitris Syvridis: "Pulse width narrowing due to dual ground state emission in quantum dot passively mode locked lasers", Appl. Phys. Lett. 96, 211110 (2010), <https://doi.org/10.1063/1.3432076>

[J-12]

C. Simos, L. Rodriguez, V. Skarka, X. Nguyen Phu, N. Errien, G. Froyer, T.P. Nguyen, P. Le Rendu and P. Pirastesh: "Measurement of the third order nonlinear properties of conjugated polymers embedded in porous silicon and silica", Physica Status Solidi (c), Vol. 2, Issue 9, pp. 3232-3236, June 2005 <https://doi.org/10.1002/pssc.200461127>

[J-11]

T. P. Nguyen, P. Le Rendu, C. Simos, P. X. Nguyen, V. Skarka, M. De Kok, K. W. Cheah, M. Guendouz, P. Joubert: "Non-linear optical properties of poly(phenylene vinylene) in porous silicon substrates" Physica Status Solidi (c), Vol. 2, Issue 9, pp. 3222-3226, June 2005 <https://doi.org/10.1002/pssc.200461123>

[J-10]

N. Errien, L. Vellutini, G. Froyer, G. Louarn, C. Simos, V. Skarka, S. Haesaert, P. Joubert: "Nanocomposites obtained by embedding of conjugated polymers in porous silicon and silica" Physica Status Solidi (c), Vol. 2, Issue 9, pp. 3218-3221, June 2005 <https://doi.org/10.1002/pssc.200461122>

[J-09]

L. Rodriguez, C. Simos, M. Sylla, A. Marcano O. And X. Nguyen Phu: "New holographic technique for third-order optical properties measurement", Optics Communications, Vol. 247 (2005), pp. 453-460 <https://doi.org/10.1016/j.optcom.2004.11.104>

[J-08]

L. Rodriguez, C. Simos, J. Hernandez, H. Gutierrez, M. Sylla, M. Giffard, A. Marcano and X. Nguyen Phu: "Picosecond measurements of the nonlinear refractive index of new salts of carboxylate anions with chiral amines and ammonium cations", Optical Materials, Vol.27, Issue 3, pp 641-646, December 2004 <https://doi.org/10.1016/j.optmat.2004.09.010>

[J-07]

Christos Simos, Vincent Couderc, Alain Barthelemy and Alexander Buryak: "Phase-dependant interactions between three-wave spatial solitons in bulk quadratic media", Journal of Optical Society of America B (JOSA B), Vol. 20, no 10, p. 2133, October 2003 <https://doi.org/10.1364/JOSAB.20.002133>

[J-06]

Christos Simos, Vincent Couderc and Alain Barthelemy: "Temporal reshaping of optical pulses using quadratic spatial soliton generation and spatial filtering", IEEE Photonics Technology Letters, Vol. 14, no 5, pp. 636-638, May 2002 <https://doi.org/10.1109/68.998709>

[J-05]

Christos Simos and Philippe Di Bin: "Accurate experimental determination of cutoff wavelengths in channel waveguides", *Microwave and Optical Technology Letters* Vol.32, no 1, pp. 14-17, January 5 2002 <https://doi.org/10.1002/mop.10079>

[J-04]

C. Simos, Ph. Leproux, P. Di Bin and P. Facq: "Influence of mode orientations on power transfer at misaligned fiber connections" *Journal of Optics A (JOPA): Pure and Applied Optics*, Vol. 4, no 1, pp. 8-15, January 2002 <https://doi.org/10.1088/1464-4258/4/1/302>

[J-03]

Elena Lopez-Lago, Christos Simos, Vincent Couderc, Alain Barthelemy, David Artigas and Lluís Torner: "Efficiency of quadratic soliton generation" *Optics Letters*, Vol. 26, no 16, pp. 1277-1299, August 15, 2001 <https://doi.org/10.1364/OL.26.001277>

[J-02]

V. Couderc, E. Lopez-Lago, C. Simos and A. Barthelemy: "Experiments on quadratic spatial soliton generation and steering in non-collinear geometry" *Optics Letters*, Vol. 26, no 12, pp. 905-907, June 15, 2001 <https://doi.org/10.1364/OL.26.000905>

[J-01]

P. Di Bin, D. Pagnoux, C. Simos, P. Faugeras and P. Facq: "Technique for measurement of fibre cut-off wavelengths by selective modal excitation" *Electronics Letters*, Vol. 33, No 5, pp. 416-417, 1997 <https://doi.org/10.1049/el:19970281>

## Conferences, Proceedings & Digests

[C-39]

Smolinski, K. T., Bowden, D. C., Lentas, K., Melis, N. S., Simos, C., Bogris, A., Simos, I., Nikas, T., and Fichtner, A.: Distributed Acoustic Sensing in the Athens Metropolitan Area: Preliminary Results, EGU General Assembly 2022, Vienna, Austria, 23-27 May 2022, EGU22-11864, <https://doi.org/10.5194/egusphere-egu22-11864>, 2022.

[C-38]

Bowden, D., Fichtner, A., Nikas, T., Bogris, A., Lentas, K., Simos, C., Smolinski, K., Simos, I., and Melis, N.: Comparing two fiber-optic sensing systems: Distributed Acoustic Sensing and Direct Transmission, EGU General Assembly 2022, Vienna, Austria, 23-27 May 2022, EGU22-11599, <https://doi.org/10.5194/egusphere-egu22-11599>, 2022

[C-37]

A. Bogris, C. Simos, I. Simos, T. Nikas, N. S. Melis, K. Lentas, C. Mesaritakis, I. Chochliouros, and C. Lessi, "Microwave frequency dissemination systems as sensitive and low-cost interferometers for earthquake detection on commercially deployed fiber cables," in *Optical Fiber Communication Conference (OFC) 2022*, S. Matsuo, D. Plant, J. Shan Wey, C. Fludger, R. Ryf, and D. Simeonidou, eds., Technical Digest Series (Optica Publishing Group, 2022), paper M2F.4.

[C-36]

Adonis Bogris, Christos Simos, Iraklis Simos, Thomas Nikas, Nikolaos S. Melis, Konstantinos Lentas, Charis Mesaritakis, Ioannis Chochliouros, Christina Lessi: "Microwave frequency dissemination systems as sensitive and low-cost interferometers for earthquake detection on commercially deployed fiber cables", *OFC 2022*, San Diego, California, USA, 05 - 09 March 2023

[C-35]

Dominik Auth, Christoph Weber, Iraklis H. Simos, Christos Simos, Luke F. Lester, Stefan Breuer, Synchronization of two passively mode-locked quantum-dot lasers by mutual optical injection, *SPIE Photonics West*, San Francisco, California, USA, 1-6 February 2020, 11301-68



**[C-34] & [P-10]**

C. Weber, D. Auth I. Simos, C. Simos and S. Breuer: Repetition rate locking of mutually injected monolithic passively mode-locked semiconductor quantum dot lasers,  
**Conference:** CLEO®/Europe-EQEC, Munich, Germany, 23-27 June 2019, Article no 8871668.

**Proceedings:** <https://doi.org/10.1109/CLEOE-EQEC.2019.8871668>

**[C-33]**

Christoph Weber, Dominik Auth, Iraklis Hercules Simos, Christos Simos, and Stefan Breuer: Synchronization of two mutually optically injected passively mode-locked quantum dot lasers, Deutsche Physikalische Gesellschaft, Regensburg, 31 March- 05. April 2019

**[C-32]**

Philippe Rigaud, Christos Simos, Agnès Desfarges-Berthelemot, Géraud Bouwmans, Vincent Kermene, Ammar Hideur, Alain Barthélémy: Génération et synchronisation d'impulsions brèves dans un laser a fibre multicœur et amplification spectralement distribuée, 35emes Journées Nationales d'Optique Guidée (JNOG), (Part of Optique Bretagne 2015 Congress), Rennes, France, 6-9 July 2015

**[C-31] & [P-09]**

Christos Simos, Hercules Simos, Thomas Nikas, Dimitris Syvridis: Compact optical displacement sensing by detection of microwave signals generated from a monolithic passively mode-locked laser under feedback,

**Conference:** SPIE Optics/Optoelectronics 2015, Prague, April 2015,

**Proceedings:** <https://doi.org/10.1117/12.2179046>

**[C-30]**

Hercules Simos, Christos Simos, Charis Mesaritakis, and Dimitris Syvridis: Numerical Investigation of Timing Jitter in Passively Mode Locked Quantum-Dot lasers with Anti-colliding Design, International Symposium on Physics and Applications of Laser Dynamics 2013 (ISPALD 2013), October 29 to 31, 2013, Télécom ParisTech, Paris, France

**[C-29]**

Christos Simos, Hercules Simos, Charis Mesaritakis, Alexandros Kapsalis and Dimitris Syvridis, Two Section Quantum Dot Mode Locked Lasers under Long Delay Optical Feedback: Pulse, Noise and Jitter Dynamics, International Symposium on Physics and Applications of Laser Dynamics 2013 (ISPALD 2013), October 29 to 31, 2013, Télécom ParisTech, Paris, France

**[C-28] & [P-08]**

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

**Conference:** 2013 Conference on Lasers and the Electro-Optics Europe & International Quantum Electronics Conference (CLEO/Europe-IQEC 2013), May 12 to May 16, 2013, Munich, Germany,

**Proceedings:** ISBN: 978-1-4799-0594-2, ISSN: 21622701, IEEE Catalog Number: CFP13ECL-ART, <https://doi.org/10.1109/CLEOE-IQEC.2013.6800703>

**[C-27]**

Christos Simos, Luis Rodríguez and Vladimir Skarka: Picosecond measurement of the third order nonlinear properties of polydiacetylene - sulfonate in the near infrared, The International Conference On Structural Analysis Of Advanced Materials (ICSAM 2007), September 2-6, 2007, Patras, Greece

**[C-26]**

Balas C., Pagoulatos N., Simos C., Skiadas Y., Kavagiou H., "Dynamic Spectral Imaging : A Novel Imaging Technology In Improving Colposcopy", Annual Scientific Meeting of the BSCCP (The British society for Colposcopy and Cervical Pathology, Sheffield, UK,



12th - 13th April 2007

[C-25]

WP Soutter, E Diakomanolis, D Lyons, S Ghaem-Maghami, T Ajala, D Haidopoulos, D Doublis, C Kalpaktsoglou, G Sakellaropoulos, S Soliman, K Perryman, V Hird, C Simos, Y Skiadas, H Kavagiou, C Balas: "Dynamic Spectral Imaging - Improving Colposcopy", Annual Scientific Meeting of the BSCCP (The British society for Colposcopy and Cervical Pathology), Sheffield, UK, 12th - 13th April 2007

[C-24]

C. Balas, C. Simos, N. Pagoulatos, Y. Skiadas, H. Kavagiou, C. Loukas: A Spectral Imaging Application For The Diagnostics Of Cervical Neoplasia In Vivo A Novel Optical Imaging Technology for the in-vivo diagnostics and mapping of Cervical Neoplasia XVIII FIGO (International Federation of Gynecology & Obstetrics) World Congress of Gynecology and Obstetrics, 5-10 Nov, 2006, Kuala Lumpur, Malaysia

[C-23]

Μπάλας Κ., Σίμος Χ., Σκιαδάς Ι., Παγουλάτος Ν., Καβάγιου Ζ., Λουκάς Κ.: "Σύστημα δυναμικής φασματικής απεικόνισης (DySISTM) για την in vivo ανίχνευση νεοπλαστικών αλλοιώσεων του τραχήλου της μήτρας", 10ο Πανελλήνιο Συνέδριο Μαιευτικής/Γυναικολογίας, 25-28 Μαΐου 2006, Πάτρα.

[C-22]

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