

CURRICULUM VITAE



Lambros T. Doulos was born in Athens, Greece on September 19, 1975. He holds a PhD from the National Technical University of Athens (ECE School, 2010). He holds a degree in Physics (University of Athens, 1999) and a Master of Science degree in Environmental Physics (University of Athens, 2002). He completed his Post Doc Research from 2017 to 2019 from the University of Thessaly, Architectural department (Post Doc Thesis: Zero Energy Lighting System for Schools using clean energy production from PV panels). He is an **Associate Professor at the School of Applied Arts and Sustainable Development of the Hellenic Open University from August 2021** with scientific subject "Lighting Technology with applications in energy

optimization and the coupling of Daylight and Electric Lighting in the Human Centric Environment". As a Researcher-Physicist he works in research programs, measurements, studies and lighting projects. To date, he has participated in 67 research projects (1 as the main Scientific Researcher) from which more than 100 publications in scientific journals, international conferences, national conferences and national press have been published. Some of his research interests are the rational use and saving of energy in lighting systems, the use of daylight in buildings, the development of innovative photosensors, the function of the human eye and the derived correlation between lighting, health and well-being, the evaluation of lighting installations in buildings, streets and tunnels, lighting design and improvement of lighting installations, street lighting, light pollution, minimizing its negative effects and creating protected areas, tunnel lighting and lighting measurements both in street, tunnel and interior areas. He has collaborations with lighting companies and has carried out numerous lighting projects and studies. He has authored 2 books on lighting design and 8 chapters of collective volumes in corresponding books. He has also participated as a member of committees of Technical Instructions and legislation (KENAK 2017, KENAK 2021, TOTEE 20701-1 / 2017, 20701-4 / 2017, 20701-7 / 2021 "Artificial and Daylighting of Buildings"), as a member of the CIE International Lighting Committee (participation in 5 technical committees- JTC 18 (D3/D4): "Lighting Education" since 2019, TC 4-61: "Artificial Lighting and its Impact on the Natural Environment" since 2019, JTC 15 (CIE-ISO): "Lighting of Indoor Workplaces" for revising ISO/CIE 8995-1 since 2018, TC4-53 "Tunnel lighting evolution" since 2016 and TC4-51 "Optimization of Road Lighting") and the ISO committee (participation in 1 technical committee) in drafting instructions and regulations. He has participated as a speaker in numerous lighting conferences, he is a member of ASHRAE (President of the Hellenic Branch 2020-21) and official RELUX Certified Trainer and representative. Finally, he is an Associate Editor in the scientific journal Journal of Daylighting, (Solarlits ISSN: 2383-8701) and has been a Guest Editor in 3 special issues on lighting in 2 journals, Sustainability (MDPI ISSN: 2071-1050) and Electronics (MDPI ISSN: 2079-9292). He was also visiting Professor in University Of Applied Sciences Nuremberg, Germany, (Technische Hochschule Nürnberg Georg Simon Ohm, Faculty of Electrical Engineering - Precision Engineering - Information Technology for the years 2018 and 2019), and visiting researcher in a) Ehime University, Faculty of Engineering, Japan, 2014, (Networking on Environmental Safety & Sustainability Initiative for Engineering NESSIE ERASMUS MUNDUS 2012) and b) Aalto University, Department of Electrical Engineering and Automation, Espoo, Helsinki, Finland, (EARLI programme, Promoting education and research on energy efficient lighting and renewable energy for sustainable development August 2018 – February 2019

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MORE ANALYTICALLY:

1. **Family name:** Doulos
2. **First names:** Lambros
3. **Date of birth:** 19 September 1975
4. **Nationality:** Hellenic
5. **Civil status:** Married
6. **Education:**

Institution:	University of Thessaly, Department of Architecture
Date:	From April 2017 to April 2019
Grand obtained:	Post Doc
Post Doc Thesis	Zero Energy Lighting System for Schools

Institution:	National Technical University of Athens, School of Electrical and Computer Engineering Electric Power Division Laboratory of Photometry
Date:	From September 2004 to December 2010
Diploma obtained:	PhD, Development of a daylight responsive system for the optimum use of daylight
PhD Thesis	Development of a daylight responsive system for the optimum use of daylight

Institution:	Ethnikon kai Kapodistriakon Panepistimion Athinon / University of Athens
Date:	From September 2000 to February 2002
Diploma obtained:	MSc in Environmental Physics
MSc Thesis	Passive cooling of outdoor urban spaces. The role of materials

Institution	Ethnikon kai Kapodistriakon Panepistimion Athinon / University of Athens
Date:	From September 1994 to January 1999
Diploma obtained:	Bachelor in Physics
Diploma thesis	Study of microclimate in urban areas

7. Language skills: (1 to 5 for competence 5 being the highest)

Language	Reading	Speaking	Writing
Hellenic (Native)	5	5	5
English	4	4	4
German	1	1	1

8. Membership of professional or scientific bodies:

- CIE member of JTC 18 (D3/D4): “Lighting Education” (running)
- CIE member of TC 4-61: “Artificial Lighting and its Impact on the Natural Environment” (running)
- CIE member of TC3-53 Revision of CIE S 008 Joint ISO/CIE Standard: Lighting of Work Places - Part 1: Indoor (running)
- CIE member of TC4-51 Optimization of Road Lighting (running)
- CIE member of TC4-53 Tunnel lighting evolution (running)
- ASHRAE 90.1 sub-committee of Lighting
- Hellenic Lighting Association (Co-Founder)
- Professional Lighting Design Convention
- Member of the COST Action (EU) Loss of the Night Network (LoNNe) (completed)
- Member of the COST Action (EU), Archaeological practices and knowledge work in the digital environment (ARKWORK CA15201) (open)

9. Other skills:

- Computer literacy
- Simulation Programs for illuminance calculation and Visual Comfort (DAYSIM, RELUX, DIALUX)
- Simulation Programs for photovoltaic calculation (PVSYST)
- Simulation Programs for Thermal Comfort in Buildings (TRNSYS, AIOLOS, AIR-GR, SUMMER)
- Communication
 - Team spirit gained from the participation in 32 research projects and athletic activities (member in football team)
 - Good ability to adapt to multicultural environments gained through travels
 - Good communication skills gained through his experience as lighting consultant and light project manager

- Organisational / managerial
 - Organization Committee Balkan Light 2015
 - Leadership (He was leading to a various number of students that completed their diploma thesis their master thesis with success)
 - Good experience in project and team management (participation in 32 research projects)
- Meteorologist

10. Present position:

- Associate Professor, “Lighting Technology and connection with production”, Hellenic Open University, (From October 2012- to present)
- Researcher - Lighting Consultant - Lighting Designer, Lighting lab., National Technical University of Athens (From September 2003- to present)
- Lighting Expert, for various companies (From 2000- to present)
- Project manager, RELUX representative in Greece (From November 2014 to present)

11. Years within the firm:

- Lighting Expert: 22 years
- National Technical University of Athens: 19 years
- Hellenic Open University: 11 years

12. Key qualifications:

- Editor in scientific journals
 - Associate Editor in Journal of Daylighting, Solarlits ISSN: 2383-8701, <http://solarlits.com/jd/index> (2019 - now)
 - Guest Editor in Sustainability, MDPI ISSN: 2071-1050 (<https://www.mdpi.com/journal/sustainability>), «Human Oriented and Environmentally Friendly Lighting Design of Exterior Areas», (https://www.mdpi.com/journal/sustainability/special_issues/Lighting_Design_Exterior_Areas) (February 2020 – December 2020)
 - Guest Editor in Sustainability, MDPI ISSN: 2071-1050 (<https://www.mdpi.com/journal/sustainability>) «The Future of Interior Lighting is here», (https://www.mdpi.com/journal/sustainability/special_issues/Interior) (December 2019 – September 2020)
- Regional representative of RELUX lighting simulation product
- Certified trainer of RELUX lighting simulation product.
- Editorial board in scientific journals
 - Editorial board in Buildings (Architectural Design, Urban Science, and Real Estate Section), MDPI, ISSN: 2075-5309
 - Editorial Advisory Board in Heliyon (Energy), Cell Press / Elsevier, ISSN: 2405-8440
 - Associate Editor in Journal of Daylighting, Solarlits ISSN: 2383-8701
 - Associate Editor in Frontiers for Sustainability (Quantitative Sustainability Assessment), Frontiers, Electronic ISSN: 2673-4524
- Reviewer in scientific journals
 - CellPress: 1) Heliyon
 - ELSEVIER: 1) Applied Energy, 2) Automation in Construction, 3) Building and Environment, 4) Energy and Buildings, 5) Journal of Building Engineering, 6) Resources, Conservation & Recycling, 7) Sustainable Cities and Society, 8) Solar Energy
 - MDPI: 1) Applied Sciences, 2) Buildings, 3) Energies, 4) Infrastructures, 5) Photonics, 6) Safety, 7) Sensors, 8) Sustainability,
 - Solarlits: 1) Journal of Daylighting
 - Springer: 1) Building Simulation: An International Journal, 2) Energy Efficiency, 3) Journal of Solid State Lighting

- Taylor & Francis : 1) Advances in Building Energy Research
- Wiley : 1) Journal of the Society for Information Display

13. Specific regional experience:

Country	Date: from - to
Greece	2000 – to present
Albania	April 2013
Turkey	May 2014 – to present
Japan	March 2014 to April 2014

14. Professional experience record

Date: from (month / year) to (month / year)	From September 2004- to present
Location	Athens, Greece
Company	National Technical University of Athens
Position	Senior Researcher - Lighting Consultant - Lighting Designer – Project Manager
Description	<p>He is an expert in rational use of energy in lighting systems, the use of daylight in buildings, development of innovative photosensors, road lighting, tunnel lighting and road and tunnel lighting measurements. In the context of his PhD research (Development of a system of automatic adjustment of artificial lighting for the optimized exploitation of daylight) he developed a new type of photosensor that alters its field of view regarding its position on the ceiling in order to have greater energy savings, optical comfort and unerring function of the photosensor.</p> <p>Some of the tasks in lighting laboratory are: Evaluation of lighting installations in open road and tunnels, luminance and illuminance measurements of tunnels and open roads. Measurement of luminous flux and luminous efficiency of lamps and luminaires with the use of photometric arrangements and standard lamps, measurement of lamps life-time, diagrams of polar distribution of luminous intensity, measurements of electrical characteristics of ballasts by means of standard ballasts, colorimetric measurements on lamps and lamp covers. Lighting design projects and energy retrofit lighting projects.</p>

Date: from (month / year) to (month / year):	From October 2012- to present
Location	Patra, Greece
Company	Hellenic Open University
Position	Adjunct Professor
Description	Adjunct Professor in the MA program “Lighting Design” where he teaches the course “Lighting Technology and connection with production”

Date: from (month / year) to (month / year):	From 2000- to present
Location	Greece
Companies	Foss, Lumitec, Promoset, Diathlasis, Lighting3
Position	Lighting Expert, Consultant, Project and Sales manager
Description	He also offers consultancy services in lighting design and building's low energy techniques. He is project manager with a various projects regarding offices, retail, residential, exterior, industrial places, tunnels and roads.

Date: from (month / year) to (month / year):	From September 2001 to November 2003
Location	Athens, Greece
Company	University of Athens, Physics Department, Applied Physics, Laboratory of Meteorology
Position	Researcher

Description	Several research projects have implemented by the researcher
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15. Scientific experience:

- Post-Doctoral research as main Post-Doc researcher
 - "Zero Energy Lighting System for Schools (ZELSS)" The latter is funded by the action «Strengthening Post-Doctoral Research», the resources of Operational Program «Human Resources Development Program, Education and Life long Learning» priority axis 6, 8, 9 and co-financed by European Social Fund – ESF and the Greek government. (2017-2019)
 - "Artificial lighting control system with ambient light sensor network", funded by the Research Committee of NTUA (2018-2020)
 - "Thales – NTUA: Development of a novel intelligent lighting control system with imaging sensor for optimum daylight exploitation and energy saving", (code MIS 379524), in Priority Axis "11-Reinforcement of Human Capital for the promotion of the research and innovation in the 3 Phasing out Regions" which is co-funded by the EU-ESF and National Funds through the operational program "Education and Lifelong Learning" (2012-2015)
- Participation in research and scientific projects
 - «Environmentally Conscious Smart Lighting / ECOSLIGHT» KA2: Cooperation for innovation and the exchange of good practices - Sector Skills Alliances (Working packages: - Identification of emerging roles and needs in the lighting-related construction sector, and - Design and development of training methodologies and contents) Erasmus+ (2019-2021).
 - Kythnos Smart Island, WP8 Smart street lighting, WP9 Kythnos Smart Island Centre and Smart Training Lab, Dafni Network of Sustainable Greek Islands (2019-2021).
 - Promoting education and research on energy efficient lighting and renewable energy for sustainable development (EARLI), part of HEI ICI programme (Higher Education Institutions Institutional Cooperation Instrument), an international development cooperation programme for higher education funded by the Ministry for Foreign Affairs of Finland (2018 - 2019).
 - Wide scale demonstration of Integrated Solutions and business models for European smartGRID – WiseGRID, H2020-EU.3.3.4. - A single, smart European electricity grid, LCE-02-2016 - Demonstration of smart grid, storage and system integration technologies with increasing share of renewables: distribution system (1/2019-4/2019)
 - Promoting Energy Efficient Lighting Education in Nepal and Bhutan (ELNAB), 2016 -2018, Erasmus + Program.
 - COST action: SHELD-ON CA16226, Indoor living space improvement: Smart Habitat for the Elderly, (http://www.cost.eu/COST_Actions/ca/CA16226, 2017-2019).
 - COST action: ARKWORK CA15201, Archaeological practices and knowledge work in the digital environment (http://www.cost.eu/COST_Actions/ca/CA15201, 2016-2018)
 - Member of COST action: Loss of the Night Network (<http://www.cost-lonne.eu/>, 2014-2016)
 - STARS4ALL, A Collective Awareness Platform for Promoting Dark Skies in Europe, H2020-ICT-2015. Research and Innovation Action, funded by the European Union H2020 Programme (2015- 2019)
 - "Photometry measurements in tunnels and open roads in ATTIKI ODOS motorway, analysis of measurements and calculations in order to save energy and optimise the maintenance of the luminaires", co-funded by ATTIKI ODOS SA (2013-2016)"
 - Feasibility study for energy efficient program of public lighting in off-grid islands Lesvos, Limnos, Milos, Kithnos and Santorini as a supplement to the development of smart grid infrastructure in the electric grids of these islands, "Development of smart-grid infrastructure in autonomous islands of the Aegean sea", Network of Aegean Islands for Sustainability (DAFNI network), ICCS, (2013 - 2014).
 - "Photometry measurements in tunnels and open roads in EGNATIA ODOS motorway, analysis of measurements and calculations in order to save energy and optimise the maintenance of the luminaires", co-funded by EGNATIA SA (2013-2014)"
 - "Photometry measurements in tunnel in Crabe Albania, analysis of measurements and calculations in order to verify the effective operation of lighting installation", co-funded by AKTOR SA (2013)"

- "Project - Seminars for Energy Inspectors : Support and certification of the Energy Inspectors " (2012-2013), Section " Lighting - Lighting Systems ," National Technical University
- "Design of aeronautical light signal of low luminous intensity" (2012), funded by the Programme Coupons for innovation National Strategic Reference Framework of Greece.
- "Renovation of National Garden-Lighting system and WiFi" (2009-2010), funded by the Prefecture of Athens
- "Design of luminaire for solar photovoltaic system for street lighting" (2009-2010), funded by the Programme Coupons for innovation, National Strategic Reference Framework of Greece.
- "South-East European TSO Challenges (SEETSOC)", Project number 239453, funded by FP7-ENERGY-2008-TREN-1.
- "Mikrenergin (improve energy performance of 5 thousands small retail shops in Corfu", Chamber Corfu, Greece (2010-2012).
- "Energy saving in Municipality of Voula, Attica, Greece" (2009-2010), funded by the Programme "Energy saving in municipalities", National Strategic Reference Framework of Greece.
- "Design of luminaire for solar photovoltaic system for street lighting" (2009-2010), funded by the Programme "Coupons for innovation", National Strategic Reference Framework of Greece.
- "Energy inspections of aeolian parks, hydroelectric factories, photovoltaic systems, passive solar systems, installations of co-production, installations of biomass and any installations of energy saving" (2002-08), Operational program "Antagonistikotita", Action 2.1.3, co-funded by ELANET.
- "Laboratoire virtuel pour éduquer à l'énergie durable (Programme Lifelong Learning)", Programme Pour L'éducation Et La Formation Tout Au Long De La Vie (LLP) Energ@tic 2007-2013, Intelligent Energy – Europe.
- "Strategies for development and diffusion of Energy Efficient Distribution Transformers" (2006-2008), Intelligent Energy – Europe (EIE-SAVE), funded by E.U., Directorate-General for Energy and Transport, Intelligent Energy Executive Agency, EIE/05/056/SI2.419632.
- "Photometry measurements in tunnels and open roads in EGNATIA ODOS motorway, analysis of measurements and calculations in order to save energy and optimise the maintenance of the luminaires", co-funded by EGNATIA SA (2006-2007)"
- "Quality assurance services to manufacturers of equipment of lighting installations" (2007-2011), financed by manufacturers of lighting systems.
- "Quality assurance of lighting equipment" (2007-2011), financed by manufacturers of equipment for lighting installations.
- Development of a system of automatic adjustment of artificial lighting for the optimized utilization of daylighting" (2005-2007), co-funded by the European Social Fund (75%) and National Resources (25%), Operational Program for Educational and Vocational Training II (EPEAEK II) and particularly the Program PYTHAGORAS II, European Social Fund, Measure 2.2, Activity 2.2.3.
- "Development of model for the determination of the photometric parameters of mesopic vision" (2004-2006), Programme "Protagoras" for support of basic research, financed by the Senate Committee for the Basic Research of National Technical University of Athens.
- "Safeguard of quality in construction of luminaries" (2002-07), co-funded by Greek Lighting constructor companies.
- Development of a distant-learning training module on energy efficient integrated building design in Urban Environment and Pilot action involving the production and promotion of modules for the initial training for building professionals and craftsmen/technicians", SAVE (13) Projects 2000, (4.1031/P/00-013/2000).
- Cluster Project on Demand Controlled Hybrid Ventilation in Residential Buildings with specific emphasis of the Integration of Renewables, RESHYVENT" (NNE5-2001-00107), Joule Project 2000.

- “SYNTHLIGHT, Creation of a European Educational Infrastructure on the energy efficient lighting technologies, assisted by 3D synthetic environment“. SAVE Project 2001, (4.1031/2/01-123/2001).
- “Univesal Fiber Optic (UFO)“, FPS program, (ERK6-CT1999-00011).
- ESBUE, Energy Efficient Sportive Buildings – leading the way“
- “Retrofitting for Environmental Viability Improvement of Valued Architectural Landmarks, REVIVAL“ under the European Commission 5th Framework 'ENERGIE' Programme
- “INTERSET Design guidelines for managers and designers of settlements, urban sites and utilities“,SAVE Project
- “Energy Efficient Industrial Kitchens – Leading the Way to Sustainable Production, INKISUP“, NNE/52/2002 SAVE-2001-101
- “SMART-BE, targeting on the development of educational system based on the web for training on smart buildings“, LEONARDO
- “Integrated Renewable Technologies in Urban and Sports facilities, IRTUS“, Cluster Project Number: 4.1030/C/00/011 – IRTUS, ALTENER 2002
- “GENESYS, Fuzzy controllers and smart tuning techniques for energy efficiency and overall performance of HVAC systems in buildings“, Contract JOE-CT98-0090
- "Practical Recommendations for Sustainable Construction - PRESCO", EVK-CT-1999-20003
- Other educational activities
 - Participation in lectures of Lighting Technology (Lecture of F. V. Topalis, Professor), 2004 - 2015 with the following tasks: Supervisor in students' weekly Laboratory Practice, Supervisor of more than 15 bachelors Diploma thesis
 - Participation in lectures of Energy Conservation in Buildings (Graduate Program: «Production and Management of Energy» National Technical University of Athens, Lecture of F. V. Topalis, Professor and S. Kavatza, Lecturer), 2006-15 with the following task: Lecture for lighting controls
 - Participation in lectures of Energy Planning and Upgrading of Buildings (Graduate Program: « Seismic and Energy Upgrade Construction and Sustainable Development», Lecture of S. Zerefos, Professor), 2014-15 with the following task: Lecture for lighting controls
 - Lecturer in summer schools
 - Erasmus Intesive Programme 2012-2013, “Lighting Design: State of the art and new trends”, Athens. June 24- July 5, 2013.
 - Erasmus Intesive Programme 2013-2014, “Lighting Design: State of the art and new trends”, Porto. June 23- July 4, 2014.
 - COST, Loss of night network 2013-2016, “Lighting Design: State of the art and new trends”, Berlin. October 4- October 11, 2015.
 - Participation in seminars as speaker or trainer:
 - Training of energy auditors, Lighting, 2012-2015, “Seminars of Energy Inspectors: Support of certification of Energy Inspectors“, National Technical University of Athens
 - Lighting training of personnel of Lighting Companies: Bel-Light, Greece (July 2012), Hepper Lighting (May 2015)
 - BEST Athens Spring Course “Let there be light”, National Technical University of Athens, 20-28 March 2007
- Honours and awards
 - “Thomaidio award” 2007-2009 for the advance of Science and Art, National Technical University of Athens
 - 1st Applied Research & Innovation Competition, Greece Innovates, 2011, 7th runner up winner (EuroBank EFG, SEV-Hellenic Federation of Enterprises)
- Participations as a speaker
 - Forum LED, Bits and pieces, «A few improvements in current standards», Cité Centre des Congrès, Lyon, France, 8th and 9th of December 2016.

- Photonics for Smart Road Transportation, “Street Lighting”, Divani Palace Acropolis Hotel, Athens, 3rd of March 2017.
- «Energy in Buildings – Cyprus», 1st International Conference May 4th 2017, Limassol, Cyprus, ETEK, ASHRAE Cyprus Chapter, «Efficient Indoor Lighting Design».
- «Energy in Buildings – Northern Hellas», 4th International Conference May 6th 2017, Thessaloniki, Greece, TEE-TKM, ASHRAE Hellenic Chapter, «Improving Football Pitch Lighting: Case Studies of Panetolikos and Panathinaikos».

16. Publications:

- Publications in scientific journals

(Scopus: 1220 Citations, h-index 17, Google Scholar: 1.896 Citations, h-index 20)

- A.I.Samiou, L.T.Doulos, S.Zerefos, Daylighting and artificial lighting criteria that promote performance and optical comfort in preschool classrooms, *Energy and Buildings*, 258, 2022, 111819, <https://doi.org/10.1016/j.enbuild.2021.111819> (Impact factor 5.879; 5-Year Impact factor 6.175).
- Tsangrassoulis, A.; Doulos, L.; Mylonas, A. Simulating the Impact of Daytime Calibration in the Behavior of a Closed Loop Proportional Lighting Control System. *Energies* 2021, 14, 7056. <https://doi.org/10.3390/en14217056> (Impact factor 3.004; 5-Year Impact factor 3.085).
- Pallis P, Braimakis K, Roumpedakis T.C, Varvagiannis E, Karellas S, Doulos L, Katsaros M, Vourliotis P., Energy and economic performance assessment of efficiency measures in zero-energy office buildings in Greece, *Building and Environment*, 206, 2021, 108378, <https://doi.org/10.1016/j.buildenv.2021.108378> (Impact factor 6.456; 5-Year Impact factor 6.974).
- Adam, G.K.; Petrellis, N.; Doulos, L.T. Performance Assessment of Linux Kernels with PREEMPT_RT on ARM-Based Embedded Devices. *Electronics* 2021, 10, 1331. <https://doi.org/10.3390/electronics10111331> (Impact factor 2.397; 5-Year Impact factor 2.408). Σε αυτό το άρθρο έχει γίνει 1 αναφορά σύμφωνα με scholar.google.gr.
- Bista, D.; Bista, A.; Shrestha, A.; Doulos, L.T.; Bhusal, P.; Zissis, G.; Topalis, F.; Chhetri, B.B. Lighting for Cultural and Heritage Site: An Innovative Approach for Lighting in the Distinct Pagoda-Style Architecture of Nepal. *Sustainability* 2021, 13, 2720. <https://doi.org/10.3390/su13052720> (Impact factor 3.251; 5-Year Impact factor 3.473).
- Labiris G, Panagiotopoulou EK, Taliantzis S, Perente A, Delibasis K, Doulos LT. Lighting Standards Revisited: Introduction of a Mathematical Model for the Assessment of the Impact of Illuminance on Visual Acuity. *Clinical Ophthalmology* 2021 15 4553-4564 <https://doi.org/10.2147/OPHTH.S326139>
- Doulos L.T., A. Tsangrassoulis, E.N. Madias, S. Niavis, A. Kontadakis, P.A. Kontaxis, V.T. Kontargyri, K. Skalkou, F. Topalis, E. Manolis, M. Sinou and S. Zerefos, Examining the impact of daylighting and the corresponding lighting controls to the users of office buildings, *Energies* 2020, 13, 4024, <https://doi.org/10.3390/en13154024> (Impact factor 3.004; 5-Year Impact factor 3.085).
- Madias E.N., L.T. Doulos, P.A. Kontaxis, F.V. Topalis, Multicriteria decision aid analysis for the optimum performance of an ambient light sensor: Methodology and case study, *Operational Research International Journal* (2020). <https://doi.org/10.1007/s12351-020-00575-5> (Impact factor 2.410; 5-Year Impact factor 2.511).
- L. T. Doulos, I. Sioutis, A. Tsangrassoulis, L. Canale and K. Faidas, "Revision of threshold luminance levels in tunnels aiming to minimize energy consumption at no cost: Methodology and Case Studies" *Energies* 2020, 13 (7), 1707; <https://doi.org/10.3390/en13071707> (Impact factor 2.707; 5-Year Impact factor 2.990)
- Papalambrou, A., Doulos, L.T. Identifying, Examining, and Planning Areas Protected from Light Pollution. The Case Study of Planning the First National Dark Sky Park in Greece. *Sustainability* 2019, 11, 5963, <https://doi.org/10.3390/su11215963>

- (Impact factor 2.592; 5-Year Impact factor 2.801).
Scopus: 3 citations
- C.J. Grigoropoulos, L.T. Doulos, S.C. Zerefos, A. Tsangrassoulis, P. Bhusal, “Estimating the benefits of increasing the recycling rate of lamps from the domestic sector: Methodology, opportunities and case study”, *Waste Management*, 101, (2020), pp 188-199, <https://doi.org/10.1016/j.wasman.2019.10.010>
(Impact factor 5.431; 5-Year Impact factor 5.993).
Scopus: 3 citations
 - Ardavani O., S. Zerefos, L.T. Doulos, “Redesigning the exterior lighting as part of the urban landscape: The role of transgenic bioluminescent plants in Mediterranean urban and suburban lighting environments”, *Journal of Cleaner Production*, 242, (2020), 118477 <https://doi.org/10.1016/j.jclepro.2019.118477>
(Impact factor 6.395; 5-Year Impact factor 7.051).
Scopus: 4 citations
 - Mantzourani, K., Doulos, L.T., Kontadakis, A., Tsangrassoulis, A., “The effect of the daylight zone on lighting energy savings“, *IOP Conference Series: Earth and Environmental Science*, Volume 410, Issue 1, 24 January 2020, Article number 012099, Sustainability in the Built Environment for Climate Change Mitigation, SBE 2019; Thessaloniki; Greece; 23 October 2019 through 25 October 2019; Code 157496, DOI: 10.1088/1755-1315/410/1/012099
Scopus: 1 citation
 - Kontadakis, A., Doulos, L., Mantzourani, A., Tsangrassoulis, A., “Performance assessment of an active sunlight redirection system in areas with different climate: A comparison“, *IOP Conference Series: Earth and Environmental Science* Volume 410, Issue 1, 24 January 2020, Article number 012098, Sustainability in the Built Environment for Climate Change Mitigation, SBE 2019; Thessaloniki; Greece; 23 October 2019 through 25 October 2019; Code 157496, DOI: 10.1088/1755-1315/410/1/012098
Scopus: 1 citation
 - Mavridou T., L. Doulos, “Evaluation of Different Roof Types Concerning Daylight in Industrial Buildings during the Initial Design Phase: Methodology and Case Study“, *Buildings* 2019, 9, 170; doi:10.3390/buildings9070170
Scopus: 3 citations
 - L.T.Doulos, I. Sioutis, P.A. Kontaxis, G. Zissis, K. Faidas “A decision support system for assessment of street lighting tenders based on energy performance indicators and environmental criteria: Overview, methodology and case study”, *Sustainable Cities and Society*, Volume 51, November 2019, 101759, <https://doi.org/10.1016/j.scs.2019.101759>,
(Impact factor 4.624; 5-Year Impact factor 4.466).
Scopus: 12 citations
 - L.T.Doulos, A. Kontadakis, E.N.Madias, M. Sinou, A. Tsangrassoulis “Minimizing energy consumption for artificial lighting in a typical classroom of a Hellenic public school aiming for near Zero Energy Building using LED DC luminaires and daylight harvesting systems”, *Energy and Building*, 194, (2019), 201-217, <https://doi.org/10.1016/j.enbuild.2019.04.033>,
(Impact factor 4.495; 5-Year Impact factor 4.823).
Scopus: 14 citations
 - E.N.D.Madias, L.T. Doulos, P.A. Kontaxis, F.V. Topalis, “A decision support system for techno-economic evaluation of indoor lighting systems with LED luminaires“, *Operational Research*, 1-20, (2019) <https://doi.org/10.1007/s12351-019-00485-1>
(Impact factor 1.485; 5-Year Impact factor 1.485).
Scopus: 11 citations
 - G.K. Adam, P.A. Kontaxis, L.T. Doulos, E.N.D.Madias, C.A. Bouroussis, F.V. Topalis, “Embedded microcontroller with a CCD camera as a digital lighting control system“, *Electronics*, 8 (1), 51, (2019) doi:10.3390/electronics8010033
(Impact factor 1.764).
Scopus: 14 citations

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17. Distinguished lighting projects:

- Auditorium lighting study at Qassim University (2021-2022) for the company Sultanah Allied Industries in Saudi Arabia in collaboration with the company Stirixis.
- Lighting studies for 6 tunnels and determination of lighting requirements for 2 tunnels for the company Bright S.A.
- Determination of lighting requirements for Styliada tunnels of PATHE (2021) on behalf of TERNA.
- Study of lighting of 6 Interchanges in the National Road section PATHE (2021) Athens to Thessaloniki on behalf of Nea Odos.
- Study of lighting of open spaces and parking spaces (2021) in the Municipality of Paphos, Cyprus for the company LAKON ATE
- Creation of an Experience Room of the company Hub lighting and innovation (Kafkas group) 517 Vouliagmenis Avenue, Ilioupoli. (2020-2021).
- Lighting study of Car Supply Station in the National Road section PATHE (2021) Athens to Thessaloniki “Sirios” of Nea Odos (2020) on behalf of Nea Odos.
- Creation of lighting plan (Lighting Masterplan) of NTUA space in the building complex of Patision Street, study of lighting of external areas and lighting of Averoff building, 2020.
- Lighting study of 6 school building complexes of the Municipality of Vari Vouliagmeni Voula, Designer: L. Doulos on behalf of the Steam Engine and Boiler Laboratory NTUA (Responsible Prof. Sotirios Karellas).
- Supervision and lighting design of football stadium Panathinaikos, 2016
- Lighting design of METRO stations, Athens 2016.
- Lighting design and implementation of Laboratory of Lighting Design School of Applied Arts, Hellenic Open University, Patra 2015 (<http://lightinglab.eap.gr/>).
- Supervision and lighting design of football stadium Panaitolikos Agrinio 2011 (<http://lighting.ece.ntua.gr/>).
- Lighting design of National Garden, Athens 2009, (<http://lighting.ece.ntua.gr/>).

- Lighting design of Archaeological Site Ancient Messina, Messina 2009, (<http://lighting.ece.ntua.gr/>).
- Lighting design of Conference Room and library of the new buildings of the School of Electrical & Computer Engineering, NTUA Campus 2009, (<http://lighting.ece.ntua.gr/>).
- Lighting design of Office buildings (<http://lighting.ece.ntua.gr/>, www.fotismos.eu).
- Lighting design of retail lighting (Metropolis, Cyclist etc., www.fotismos.eu).
- Lighting design of interior and exterior of private residential (www.fotismos.eu, www.foss.gr).
- Lighting design of exterior public spaces (SAMOKAT ABG Plastira 12, Voula).
- Lighting design of building facades (www.foss.gr).

18. Distinguished energy retrofit lighting projects:

- Electrical and lighting measurements and evaluation of the achievement of an energy target at the Intersection Atalanti in the National Road section PATHE (2022) Athens to Thessaloniki on behalf of TERNA Energy.
- Categorization of street lighting according to 13201 and indicative lighting studies for the Municipality of Pinios in the Peloponnese (2022)
- Lighting measurements in tunnels of EGNATIA road (2021-2022) on behalf of the company AKTOP.
- Lighting measurements of open road construction in the Municipality of Volos (2021) on behalf of the company METKA.
- Recording of geometric data for the calculation and determination of the photometric technical specifications (L20, Lth, Linterior etc) of 6 PATHE tunnels in the area of Stylida (2021) part of the National Road section PATHE (2022) Athens to Thessaloniki on behalf of TERNA Energy.
- Member of the project group "Provision of Services of Independent Support Consultant of the Municipality in the Services of Energy Upgrading - Automation of Electricity Lighting Systems - Smart Cities Applications, with Energy Saving, in the Municipality of Papagou - Cholargos 2018-2028.
- Lighting design and evaluation of lighting offers for the upgrade of the lighting system of service stations with LED lighting of the company Hellenic Petroleum, 2017-2020, Designers: Topalis F., L. Doulos, NTUA
- Evaluation of lighting offers for the upgrade of the lighting system with LED lights on the national road PATHE part of the National Road Athens to Thessaloniki, 2018 on behalf of Nea Odos.
- Calculation of energy savings in the artificial lighting system of METRO Sepolia station, STASY, Athens 2016.
- Energy Savings calculations for the artificial lighting system on the wing M. Iliadis of hospital Elena Venizelos, Athens 2011 (<http://lighting.ece.ntua.gr/>).
- Improving energy efficiency in artificial lighting system: Building of Lampadario at NTUA in the Zografou Campus, Athens 2010 (<http://lighting.ece.ntua.gr/>).
- Energy saving studies in school facilities lighting system and use of photosensors for daylight harvesting (Public schools, Voula Municipality, 2009, Leontios School, Patissia / Nea Smyrni, 2009 Costea-Geitona, Pallini, 2012).
- Energy saving studies in office buildings, hotels, manufacturing facilities, shopping, restaurants and recreation areas (A-LED, www.fotismos.eu).
- Energy saving studies in industry