

Lista de lucrări
Candidat Cătălin Daniel Gălățanu

1.1. Cărți de specialitate

1. Cătălin Daniel Gălățanu, Bazele automatizării instalațiilor, Editura Tehnopress, 2013, ISBN 978-606-687-076-4, 274 pag
2. Cătălin Daniel Gălățanu, Modelarea sistemelor de iluminat asistată de calculator, Editura Tehnopress, 1999, ISBN 973-8048-07-9, 218 pag
3. Cătălin Daniel Gălățanu, Probleme speciale de instalații pentru construcții, Editura Tehnopress, 2003, ISBN 973-8048-06-0, 172 pag
4. Cătălin Daniel Gălățanu, Iulian Gherasim, Dispozitive de automatizare, Editura Tehnopress, 2010, ISBN 978-973-702-749-8, 260 pag x 80% = 208 pag
5. Cătălin Daniel Gălățanu, Automatizarea instalațiilor pentru construcții, Editura Tehnopress, 2003, ISBN 973-8377-41-2, 220 pag
6. Ignat Jan, **Galatanu Catalin Daniel** - Observabilitatea rețelilor electrice de distribuție de medie tensiune, Editura Ventura, Iasi, 1995, 278 pag, ISBN 973-97286-0-X

1.1. Cursuri universitare

7. Ignat Jan, Catalin Daniel Galatanu, Popovici C. - Instalații și rețele electrice de joasă tensiune pentru consumatori și utilități publice ROTAPRINT - U.T. "Gh. Asachi" Iasi, 1999, 570 pag
8. Galatanu Catalin Daniel, Automatizarea instalațiilor II, 2021, 186 pag

1.2.2 - Indrumare de laborator/aplicatii

1. Catalin Daniel Galatanu, Iulian Gherasim, Inițiere în Automate programabile - suport electronic, 120 pag
2. Catalin Daniel Galatanu, Indrumar de proiectare - Ghid de proiectare - sistemelor de iluminat pentru tuneluri, suport electronic
3. Galatanu C.D., s.a., Contract INCĐ URBAN-INCERC 511/2011, Ghid de bună practică pentru proiectarea instalațiilor de iluminat/protecție în clădiri, indicativ GEx 12-2015, din 08.10.2015 - 123 pag, din care 120 - autor Galatanu C.D.
4. Galatanu C.D., Tanasa I, GHID PRACTIC PENTRU STABILIREA COMPONENTELOR SISTEMULUI DE PROTECȚIE LA TRĂSNET PENTRU ANSAMBLUL CONSTRUIT, PRIN EVALUAREA RISCULUI, suport electronic



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2.1. Lucrări indexate WOS

- 1 Rusu, AV; Galatanu, CD; (...); Lucache, DD, Average Luminance Calculation in Street Lighting Design, Comparison between BS-EN 13201 and RP-08 Standards, Sep 2021 **Sustainability** 13 (18) WOS:000700019600001
- 2 Rusu, AV; Galatanu, CD; (...); Lucache, DD - Measuring Average Luminance for Road Lighting from Outside the Carriageway with Imaging Sensor Aug 2021 **Sustainability** 13 (16)
- 3 Irena Fryc, D. Czyżewski, Jiajie Fan and Catalin D. Gălăţanu, The Drive towards Optimization of Road Lighting Energy Consumption Based on Mesopic, Vision—A Suburban Street Case Study, **Energies** 2021, 14, 1175. <https://doi.org/10.3390/en14041175>, publicat, urmeaza WOS
- 4 Galatanu, CD and Canale, L - Measurement of Reflectance Properties of Asphalt using Photographical Methods 20th IEEE International Conference on Environment and Electrical Engineering (EEEIC) / 4th IEEE Industrial and Commercial Power Systems Europe Conference (I and CPS Europe), WOS:000717543100271
- 5 CD Galatanu, On/Off Optimization of Public Lighting Systems Depending on the Road Class, **Procedia Manufacturing** 46, 378-383, ELSEVIER SCIENCE DIRECT 2020 WOS:000582466200060
- 6 CD Gălăţanu, CG Haba, L Breniuc , Embedded Sensors Positioning in Thermal Insulation for Buildings, **Procedia Manufacturing**, 46, 418-423 , ELSEVIER SCIENCE DIRECT 2020 WOS:000582466200054
- 7 Ciugudeanu, Calin; Buzdugan, Mircea; Beu, Dorin; Campianu, Angel; Galatanu, Catalin Daniel, Sustainable Lighting-Retrofit Versus Dedicated Luminaires-Light Versus Power Quality , **SUSTAINABILITY**, vol.11, isue 24, 2019 WOS:000506899000228
- 8 Haba, CG; Breniuc, L; Canale, L; Galatanu, CD, Study on the Influence of Various Factors on Measurement of CCT for a Controlled Lighting System IEEE Industry Applications Society Annual Meeting, 2019 Baltimore, 2019, WOS:000521115900084
- 9 Galatanu, CD; Ashraf, M; Lucache, DD; Petrisor, D; Ciugudeanu, C, Optical Utilization Factor for Architectural Lighting, **LIGHT & ENGINEERING**, 2019 vol.27, issue 6, pag. 49-57 WOS:000506089700006
- 10 Petrisor, D; Galatanu, CD; Haba, CG; Breniuc, L, Color Quality Measurements of LED Light Sources Using Image Processing, IEEE international conference on environment and electrical engineering and 2019 ieee industrial and commercial power systems europe (EEEIC / I&CPS EUROPE) JUN 10-14, 2019, Genoa, 2019 WOS:000502821300047
- 11 Rusu Viorel, A; Lucache, DD; Galatanu, CD, Calculation of Energy Economy by Dimming LED Lamps With Maximum Performance, 2019 IEEE International Conference On Environment And Electrical Engineering And 2019 IEEE Industrial And Commercial Power Systems Europe (EEEIC / I&CPS EUROPE) JUN 10-14, 2019 Univ Genoa, Genova, 2019 WOS:000502821300002
- 12 Breniuc, L; Haba, CG; Galatanu, CD; Petrisor, D; Hertanu, R, Correlated Color Temperature Measuring and Adjustment System, 11TH International Symposium On Advanced Topics In Electrical Engineering (ATEE) 2019 WOS:000475904500083



- 13 Galatanu, CD; Haba, CG; Petrisor, D; Breniuc, L, Imaging Measurements for Public Lighting Predictive Maintenance, 11TH International Symposium On Advanced Topics In Electrical Engineering (ATEE) 2019 WOS:000475904500067
- 14 Haba, CG; Breniuc, L; Galatanu, CD; Petrisor, D; Hertanu, R, IoT System for Implementation of Connected Lighting, 11TH International Symposium On Advanced Topics In Electrical Engineering (ATEE) 2019 WOS:000475904500171
- 15 Galatanu, CD; Husch, M; Canale, L; Lucache, D, Targeting the Light Pollution: A Study Case, IEEE international conference on environment and electrical engineering and 2019 ieee industrial and commercial power systems europe (EEEIC / I&CPS EUROPE), JUN 10-14, 2019 WOS:000502821300144
- 16 Galatanu, CD - Improving the Luminance Measurement from Digital Images, International Conference on Electromechanical and Energy Systems (SIELMEN) 2019 | 2019 INTERNATIONAL CONFERENCE ON ELECTROMECHANICAL AND ENERGY SYSTEMS (SIELMEN) WOS:000630287500094
- 17 Haba, CG; Galatanu, CD and Breniuc, L - Reduction of Energy Consumption for Architectural Lighting Systems International Conference on Electromechanical and Energy Systems (SIELMEN) 2019 | 2019 INTERNATIONAL CONFERENCE ON ELECTROMECHANICAL AND ENERGY SYSTEMS (SIELMEN) WOS:000630287500064
- 18 Viorel, RA; Lucache, DD; (...); Galatanu, CD - Study on Illuminance Class Selection in Street Lighting Design 8th International Conference on Modern Power Systems (MPS) 2019 PROCEEDINGS OF 2019 8TH INTERNATIONAL CONFERENCE ON MODERN POWER SYSTEMS (MPS) WOS:000612401900132
- 19 Galatanu, CD; Gherasim, I; Ciocan, V; Verdes, M, Building The Engineering Competences Base through formative assessment and gaming, 2018 IEEE International Conference On Environment And Electrical Engineering And 2018 IEEE Industrial And Commercial Power Systems Europe (EEEIC / I&CPS EUROPE), 2018 WOS:000450163702108
- 20 Galatanu, CD; Gherasim, I; Beu, D; Lucache, DD, Luminance field of the facades: from aggressive to attractive lighting, 2018 IEEE International Conference On Environment And Electrical Engineering And 2018 IEEE Industrial And Commercial Power Systems Europe (EEEIC / I&CPS EUROPE), 2018 WOS:000450163703054
- 21 Galatanu, CD; Lucache, DD; Canale, L; Zissis, G, Reduction in Light Pollution by Measurements According to EN 13201 Standard, 2018 International Conference And Exposition On Electrical And Power Engineering (EPE), pag. 1074-1079, 2018 WOS:000458752200210
- 22 Galatanu, CD; Canale, L; Zissis, G; Gherasim, I, Measuring the driver exposure to the light pollution Developing experimental setup, 2018 IEEE International Conference On Environment And Electrical Engineering And 2018 IEEE Industrial And Commercial Power Systems Europe (EEEIC / I&CPS EUROPE), 2018 WOS:000450163700130
- 23 Galatanu, CD, Trajectories in the Competence Field During Formative Assessment, 2017 International Conference On Electromechanical And Power Systems (SIELMEN), 2017, pag. 359-363 WOS:000426906000068

- 24 Galatanu, CD, Luminance Measurements For Light Pollution Assessment, 2017 International Conference On Electromechanical And Power Systems (SIELMEN), 2017, pag. 456-461 WOS:000426906000088
- 25 Galatanu, CD, Study of facades with diffuse asymmetrical reflectance to reduce light pollution, *Energy Procedia*, vol. 112, pag. 296-305, 2017 WOS:000404848300036
- 26 Beu, D; Ciugudeanu, C; Maieran, M; Galatanu, C, Introducing A New Profession: Lighting Specialist, 16th International Multidisciplinary Scientific Geoconference (SGEM 2016), 2016, pag. 863-869 WOS:000391520200110
- 27 Galatanu, CD; Lucache, DD, Isolux Curves on the Diffuse Reflectance of Light on Concave Dihedral Angle, International Conference and Exposition on Electrical and Power Engineering, 2016, pag. 487-491 WOS:000390706300098
- 28 Galatanu, CD, Geometry Influence on the Precision of Light Flux Measurement with Ulbricht Integrating Sphere, Proceedings Of The 2016 International Conference And Exposition On Electrical And Power Engineering pg.604-608, EPE 2016 WOS:000390706300121
- 29 Galatanu, CD, Light Pollution Assessment Using Photographical Methods, 2014 International Conference And Exposition On Electrical And Power Engineering EPE, pag. 699-703 , 2014 WOS:000353565300127

2.3.1. Brevete de invenție indexate WOS

- 30 Galateanu C. D., Road or rail vehicle driver dazzle exclusion system-has block synchronising intermittent visor via photosensitive cell and liquid crystal switch, Patent Number: RO112264-B1 WOS Patent Assignee: GALATEANU CD
- 31 Galatanu C. D., Rail and road vehicle traffic light signals visibility amplifier-employs an antenna, and driver stroboscopic spectacles supplementing a synchroniser block coordinated with the lights, Patent Number: RO114579-B1 WOS Patent Assignee: GALATANU C D
- 32 Ignat Jan, Galatanu C.D., Neutral isolation type medium voltage network refined earth detector plus-three-phase comparators and a homopolar sequence transformer, with a memory element, Patent Number: RO112069-B1 WOS Patent Assignee: INST POLNIC IASI; IGNAT J; GALATANU C
- 33 Haba CG; Galatanu C D; Petrisor D., Lighting apparatus has slot that is provided with screw, such that module position on direction of vertical axis is changed, and grid that is marked on supporting plate in order to facilitate relative positioning of first module , Patent Number: RO134603-A2 WOS Patent Assignee: UNIV IASI TEHNICA ASACHI GHEORGHE
- 34 Galatanu C.D., Haba G.C. TUIASI Luminance standard apparatus, with self-calibration, has microsystem that controls speed of fan based on data received from sensor, to avoid overheating of system which leads to calibration errors or irreversible deformations Patent Darwent RO134990-A2 2021-62945B 2021
- 35 Galatanu C.D. TUIASI Remotely controlled mobile robot for measuring vertical lighting in traffic, has sensor that is automatically retracted into recess, in event that robot is pressed by force from above, and brush that is provided for cleaning Patent Darwent RO135005-A2 2021-62945Q 2021

- 36 GALATANU C D and HABA C - Self-supporting tower for surveying light pollution sources, has electric motors which are supplied and coordinated locally from power supply and stabilization system located in main portion of propulsion system RO135057-A2 Assignee(s) UNIV IASI TEHNICA ASACHI GHEORGHE Derwent Primary Accession Number 2021-75621D

2.2. Lucrări în reviste și conferințe indexate BDI

- 1 Cristian-Győző Haba; Cătălin Daniel Gălățanu; Liviu Breniuc, Reduction of Energy Consumption for Architectural Lighting Systems, 2019 International Conference on Electromechanical and Energy Systems (SIELMEN) DOI: 10.1109/SIELMEN.2019.8905855, IEEE, 2019
- 2 Catalin Daniel Galatanu, Improving the Luminance Measurement from Digital Images, 2019 International Conference on Electromechanical and Energy Systems (SIELMEN) DOI: 10.1109/SIELMEN.2019.8905887, IEEE, 2019
- 3 Dorin Dumitru Lucache, Catalin Daniel Galatanu, Elena Danila, Factors Involved in Choosing LEDs for General Lighting Applications: a Critical Review, ANNALS OF THE UNIVERSITY OF CRAIOVA - Electrical Engineering Series INDEX COPERNICUS, 2015
- 4 Guerry, E; Galatanu, CD; Canale, L; Zissis, G, Optimizing the luminous environment using DialUX software at Constantin and Elena Elderly House – Study Case, , **Procedia Manufacturing**, vol. 32 pag 466-473, 2019 WOS:000471295800066
- 5 Guerry, E; Galatanu, CD; Canale, L; Zissis, G, Luminance Contrast Assessment for Elderly Visual Comfort Using Imaging Measurements, **Procedia Manufacturing**, vol 32pag.474-479, 2019 WOS:000471295800067
- 6 Sosoi, G; Vizitiu, RS; Burlacu, A; Galatanu, CD, A Heat Pipe Cooler for High Power LED's Cooling in Harsh Condition, **Procedia Manufacturing**, vol 32, pag.513-519, 2019 WOS:000471295800072
- 7 Galatanu, C.D., Canale, L., Measurement of Reflectance Properties of Asphalt using Photographical Methods (Conference Paper), DOI: 10.1109/EEEIC/ICPSEurope49358.2020.9160776 SCOPUS, 2020
- 8 Galatanu, C.D, Lighting systems calculations for heritage buildings, DOI: 10.1088/1757-899X/586/1/012016 SCOPUS, 2019
- 9 Dakouo Koita, Catalin-Viorel Popa, Bruno Robert and Catalin-Daniel Galatanu, Numerical study of the effect of wind on the cooling of photovoltaic panels , DOI: <https://doi.org/10.1051/e3sconf/201911101057>, SCOPUS 2019
- 10 Viorel, R.A., Lucache, D.D., Livint, G. Gălățanu, C.D., Study on Illuminance Class Selection in Street Lighting Design (Conference , Paper) DOI: 10.1109/MPS.2019.8759788, SCOPUS 2019
- 11 Viorel, R.A.,Dumitru Lucache, Galatanu C.D., Calculation of Energy Economy by Dimming LED Lamps with Maximum Performance, Proceedings - 2019 IEEE International Conference on Environment and Electrical Engineering and 2019 IEEE Industrial and Commercial Power Systems Europe, IEEEIC/I and CPS Europe 2019June 2019, Article number 8783214DOI: 10.1109/EEEIC.2019.8783214

- 12 Gălățanu C.D., Competence in engineering, between enabling and practice, Conf. on Energy, Environ., Ecosystems and Sustainable Dev., Pages 409-414, SCOPUS 2010
- 13 M. Larion, F. Munteanu and C. D. Galatanu, "Adverse Light Environment: A New Challenge," 2020 International Conference and Exposition on Electrical And Power Engineering (EPE), Iasi, Romania, 2020, pp. 540-545, doi: 10.1109/EPE50722.2020.9305646.
- 14 D. Brebenariu and C. D. Galatanu, "Measuring Luminance with Digital Photometric Camera in Short Tunnels," 2020 International Conference and Exposition on Electrical And Power Engineering (EPE), Iasi, Romania, 2020, pp. 690-694, doi: 10.1109/EPE50722.2020.9305545.
- 15 C. D. Gălățanu, A. V. Rusu and D. D. Lucache, "Field Measurements for Street Lighting Assessment," 2020 International Conference and Exposition on Electrical And Power Engineering (EPE), Iasi, Romania, 2020, pp. 668-673, doi: 10.1109/EPE50722.2020.9305592.
- 16 A. V. Rusu, C. D. Gălățanu and D. D. Lucache, "Luminance Uniformity Analysis Based on Digital Camera Measurements," 2020 International Conference and Exposition on Electrical And Power Engineering (EPE), Iasi, Romania, 2020, pp. 392-396, doi: 10.1109/EPE50722.2020.9305547
- 17 D. Brebenariu and C. D. Galatanu, "Lighting Optimization in a Short and Straight Tunnel, by Designing with Specialized Software," 2020 International Conference and Exposition on Electrical And Power Engineering (EPE), Iasi, Romania, 2020, pp. 685-689, doi: 10.1109/EPE50722.2020.9305557
- 18 C. D. Galatanu and I. Gherasim, "Spatial Light Source Simulations For Near Field Reflections," 2020 International Conference and Exposition on Electrical And Power Engineering (EPE), Iasi, Romania, 2020, pp. 447-451, doi: 10.1109/EPE50722.2020.9305546.
- 19 C. -G. Haba and C. D. Gălățanu, "Wearable Device for Measurement of Exposure to Artificial Lighting," 2020 International Conference and Exposition on Electrical And Power Engineering (EPE), Iasi, Romania, 2020, pp. 488-494, doi: 10.1109/EPE50722.2020.9305556.
- 20 Catalin Daniel GĂLĂȚANU, Imaging Method for Luminous Flux Measurement, BULLETIN OF THE POLYTECHNIC INSTITUTE OF IAȘI, Vol. 66 (70), No. 1 2020, p. 49-60, <http://www.bulipi-eee.tuiasi.ro/archive/2020/fasc.1/2020f1contents.html>

2.4.1. Director de granturi câștigate în competiție națională

- 1 Cecuri de inovare 256CI/2018 PN-III-P2-2.1-CI-2018-1490 –DIRECTOR/50.000
- 2 Cecuri de inovare 219CI/2018 PN-III-P2-2.1-CI-2018-1287 –DIRECTOR/50.000
- 3 Cecuri de inovare 163CI/2018 PN-III-P2-2.1-CI-2018-0965 –DIRECTOR/50.000
- 4 Contract 512-b/ 14.06.2011, cu tema „Ghid de bună practică pentru proiectarea instalațiilor de iluminat/protecție în clădiri” 2011” – INCERC București, DIRECTOR