

Autorul tezei de abilitare: **Conf. Dr. Coffas Daniel Tudor**

Titlul tezei de abilitare: **Metode și sisteme electronice pentru caracterizarea celulelor fotovoltaice**

Domeniul: **Inginerie Electronică, Telecomunicații și Tehnologii Informaționale**

LISTA DE LUCRĂRI

LUCRĂRI RELEVANTE

1. D.T. Coffas, P.A. Coffas, S. Kaplanis, Methods to determine the dc parameters of solar cells: A critical review, *Renewable and Sustainable Energy Reviews*, vol. 28, 2013, pp. 588–596.
2. D.T. Coffas, P.A. Coffas, S. Kaplanis: Methods and techniques to determine the dynamic parameters of solar cells, *Renewable and Sustainable Energy Reviews* 61, 213-221, 2016.
3. D.T. Coffas, P.A. Coffas, O.M. Machidon: Study of Temperature Coefficients for Parameters of Photovoltaic Cells, *International Journal of Photoenergy*, 2018.
4. D.T. Coffas, P.A. Coffas, D. Ciobanu, O.M. Machidon: Characterization of Photovoltaic–Thermoelectric–Solar Collector Hybrid Systems in Natural Sunlight Conditions, *Journal of Energy Engineering* 143 (6), 04017055, 2017.
5. P.A. Coffas, D.T. Coffas, P. N. Borza, D. Sera, R. Teodorescu: Solar Cell Capacitance Determination Based on an RLC Resonant Circuit, *Energies* 11 (3), 672, 2018.
6. P.A. Coffas, D.T. Coffas: Design and implementation of RELab system to study the solar and wind energy, *Measurement* 93, 94-101, 2016.
7. S. Mahmoudinezhad, S. Ahmadi Atouei, P.A. Coffas, D.T. Coffas, L.A. Rosendahl, A. Rezania, Experimental and numerical study on the transient behavior of multijunction solar cell-thermoelectric generator hybrid system, *Energy Conversion and Management* 184,448–455,2019.
8. S. Mahmoudinezhad, A. Rezania, P. A. Coffas, D. T. Coffas, L. A. Rosendahl, Transient behavior of concentrated solar oxide thermoelectric generator, *Energy* 168, 823-832, 2019 ISSN: 0360-5442.
9. S. Mahmoudinezhad, A. Rezania, D.T. Coffas, P.A. Coffas, L.A. Rosendahl: Experimental and numerical investigation of hybrid concentrated photovoltaic–Thermoelectric module under low solar concentration, *Energy* 159, 1123-1131, 2018.
10. D.T. Coffas, P.A. Coffas, Chapter IX: PV Innovative Techniques and Experimental Test Sets, Socrates Kaplanis and Eleni Kaplani “Renewable Energy Systems: Theory, Innovations and Intelligent Applications”, Nova Science Publishers, USA, 2013 ISBN: 978-1-62417-744-6, pp. 525-546

TEZA DE DOCTORAT

Investigation on parameters affecting the photoconversion efficiency in Pv-cells based on Si and CdTe

CERERE BREVETE

1. Metodă și dispozitiv de testare accelerată a timpului de îmbătrânire a celulelor fotovoltaice – ARCL
2. Sistem hibrid PV/TEG/STC pentru încălzire a apei dintr-o piscină

CĂRȚI / CAPITOLE DE CĂRȚI

1. P. Coffas, D.T. Coffas, D. Ursuțiu, C. Samoilă: “NI ELVIS Computer-Based Instrumentation”, NTS PRESS (National Technology and Science Press), USA Allendale, NJ 07401,2012 (ISBN 978-1-934891-11-7), nr.pag.192
2. Socrates Kaplanis and Eleni Kaplani “Renewable Energy Systems: Theory, Innovations and Intelligent Applications”, Daniel T. Coffas and Petru A. Coffas: Chapter IX: PV Innovative Techniques and Experimental Test Sets, Nova Science Publishers, USA, 2013 ISBN: 978-1-62417-744-6, pp. 525-546
3. P. A. Coffas, D. T. Coffas, D. Ursutiu, C. Samoila, D. Iordache, “Chapter 3 New Tools in Hardware and Software Design Applied for Remote Photovoltaic Laboratory”, Abul K.M. Azad, A.K.M., Auer, M., V. Judson Harward, V.J. “Internet Accessible Remote Laboratories: Scalable E-Learning Tools for Engineering and Science Disciplines”, IGI Global, pp. 40-59, 2012.
4. Cornel Samoila, Petru COTFAS, Daniel T. COTFAS, Doru URSUȚIU, Petrica Vizureanu “Aliaje cu memoria forme” Ed. Univ.”Transilvania” Brasov, 2011, (ISBN978-973-598-934-7), nr.pag.155
5. D.T. COTFAS, “Celule fotovoltaice” Ed. Univ.”Transilvania” Brasov, 2010, (ISBN978-973-598-771-8). nr.pag.253

6. D.T. Cotfas, "Optoelectronica", Editura Universitatii Transilvania din Brasov, 2014, ISBN: 978-606-19-0455-6.
7. D.T. COTFAS, "Solar cells: Practical applications", Ed. Univ."Transilvania" Brasov,2004,(ISBN973-635-303-6). nr.pag.100
8. D.T. Cotfas, "Optoelectronica-Indrumar de laborator", Editura Universitatii Transilvania din Brasov, 2014, ISBN: 978-606-19-0456-3, nr.pag.61.
9. P.A. Cotfas, D.T. Cotfas, "Fizica-Lucrari de laborator", Editura Universitatii Transilvania din Brasov, 2014, ISBN: 978-606-19-0457-0, nr.pag.72.

ARTICOLE ÎN REVISTE

ISI

1. S. Mahmoudinezhad, S. Ahmadi Atouei, P.A. Cotfas, D.T. Cotfas, L.A. Rosendahl, A. Rezania, Experimental and numerical study on the transient behavior of multijunction solar cell-thermoelectric generator hybrid system, *Energy Conversion and Management* 184, 448–455, 2019.
2. S. Mahmoudinezhad, A. Rezania, P. A. Cotfas, D. T. Cotfas, L. A. Rosendahl, Transient behavior of concentrated solar oxide thermoelectric generator, *Energy* 168, 823-832, 2019 ISSN: 0360-5442.
3. D.T. Cotfas, P.A. Cotfas, O.M. Machidon: Study of Temperature Coefficients for Parameters of Photovoltaic Cells, *International Journal of Photoenergy*, 2018.
4. P.A. Cotfas, D.T. Cotfas, P. N. Borza, D. Sera, R. Teodorescu: Solar Cell Capacitance Determination Based on an RLC Resonant Circuit, *Energies* 11 (3), 672, 2018.
5. S. Mahmoudinezhad, A. Rezania, D.T. Cotfas, P.A. Cotfas, L.A. Rosendahl: Experimental and numerical investigation of hybrid concentrated photovoltaic–Thermoelectric module under low solar concentration, *Energy* 159, 1123-1131, 2018.
6. D.T. Cotfas, P.A. Cotfas, D. Ciobanu, O.M. Machidon: Characterization of Photovoltaic–Thermoelectric–Solar Collector Hybrid Systems in Natural Sunlight Conditions, *Journal of Energy Engineering* 143 (6), 04017055, 2017.
7. O.M. Machidon, A.L. Machidon, P.A. Cotfas, D.T. Cotfas: Leveraging Web Services and FPGA Dynamic Partial Reconfiguration in a Virtual Hardware Design Lab *International Journal of Engineering Education* 33 (2B), 865–876, 2017.
8. D.T. Cotfas, P.A. Cotfas, S. Kaplanis: Methods and techniques to determine the dynamic parameters of solar cells, *Renewable and Sustainable Energy Reviews* 61, 213-221, 2016.
9. P.A. Cotfas, D.T. Cotfas: Design and implementation of RELab system to study the solar and wind energy, *Measurement* 93, 94-101, 2016.
10. D.T. Cotfas, P.A. Cotfas, D. I. Floroian, L. Floroian: Accelerated life test for photovoltaic cells using concentrated light, *International Journal of Photoenergy*, 2016.
11. D.T. Cotfas, P.A. Cotfas, Eleni Kaplani, Cornel Samoila: Monthly average daily global and diffuse solar radiation based on sunshine duration and clearness index for Brasov, Romania, *Journal of Renewable and Sustainable Energy* 6, 053106 (2014); doi: 10.1063/1.4896596 (FI-0.925, SRI 0.445)
12. D.T. Cotfas, P.A. Cotfas: A Simple Method to Increase the Amount of Energy Produced by the Photovoltaic Panels, *International Journal of Photoenergy*, Vol. 2014 (2014), Article ID 901581, 6 pages <http://dx.doi.org/10.1155/2014/901581>.
13. D.T. Cotfas, P.A. Cotfas, S. Kaplanis: Methods to determine the dc parameters of solar cells: A critical review, *Renewable and Sustainable Energy Reviews*, 28, 588–596, 2013.
14. G. Șerban, D. T. Cotfas, P. A. Cotfas Crop albedo measurements after anthesis reveal significant differences among romanian wheat cultivars, *ROMANIAN AGRICULTURAL RESEARCH*, NO. 29, 2012, ISSN 1222-4227; Online ISSN 2067-5720 (FI-0.44, SRI – 0.148)
15. G. Șerban, D. T. Cotfas, P. A. Cotfas: Significant differences in crop albedo among romanian winter wheat cultivars, *ROMANIAN AGRICULTURAL RESEARCH*, NO. 28, 2011, Print ISSN 1222-4227; Online ISSN 2067-5720.
16. D. T. Cotfas, P. A. Cotfas, P. Borza, D. Ursutiu, C. Samoila: Wireless system for monitoring the solar radiation, *Environmental Engineering and Management Journal*, Vol.10, No. 8, pp.1133-1137, August 2011; ISSN: 1582-9596.
17. I. Olaru, V. Almasan, C. Samoila, D. Ursutiu, P. Cotfas, D. T. Cotfas: The characterization of the catalytic materials using the kinetic transient stage, *Metalurgia International*, vol. XVI, no.4, pp. 45-52, 2011, ISSN 1582-2214.
18. P. Vizureanu, C. Samoilă, D. T. Cotfas, S. Kaplanis, The achievement of an algorithm for the design of a solar furnace, *METALURGIA INTERNATIONAL*, vol. XV, no.2, pp. 5-14, 2010.
19. D.T. Cotfas, P. Cotfas, S. Kaplanis, D. Ursutiu, "Results on series and shunt resistances in a c-Si PV cell. Comparison using existing methods and a new one", *Journal Of Optoelectronics And Advanced Materials* Vol. 10, No. 11, p. 3124 – 3130, November 2008; ISSN 1454-4164.

20. P. A. Cotfas, C. Samoila, D. Ursutiu, D. T. Cotfas, Decarburization Study for Bearing Steel Using Barkhausen Noise, *Metalurgia International*, vol. XIV, no.9, pp. 50-54, 2009.
21. P. Vizureanu, C. Samoilă, D. T. Cotfas, Materials Processing Using Solar Energy, *Environmental Engineering and Management Journal*, March/April, Vol.8, No.2, 301-306, 2009.

ISI (conferințe)

1. D. T. Cotfas, P.A Cotfas, L Floroian, DI Floroian, Study of combined photovoltaic cell/thermoelectric element/solar collector in medium concentrated light, Optimization of Electrical and Electronic Equipment (OPTIM) & 2017 Intl Aegean Conference on Electrical Machines and Power Electronics (ACEMP), 2017.
2. P. A. Cotfas, D. T. Cotfas, C Gerigan, O. M. Machidon, System design to study hybrid systems in concentrated light using Fresnel lens, 2017 International Conference On Optimization Of Electrical And Electronic Equipment (Optim) & 2017 Intl Aegean Conference On Electrical Machines And Power Electronics (ACEMP), 2017.
3. O. M. Machidon, A. L. Machidon, P. A. Cotfas, D. T. Cotfas, Implementing a Remote Laboratory on a Chip, 2017 IEEE 23RD International Symposium For Design And Technology In Electronic Packaging (SIITME).
4. P. A. Cotfas, D. T. Cotfas, O. M. Machidon, Remote Laboratories Based On Labview Web Services, International Conference on Education and New Learning Technologies (EDULEARN) Location: Barcelona, SPAIN Date: JUL 04-06, 2016.
5. D. T. Cotfas, P. A. Cotfas, O. M. Machidon, D. Ciobanu, Investigation of the photovoltaic cell/thermoelectric element hybrid system performance, International Conference On Innovative Research - ICIR EUROINVENT 2016 Book Series: IOP Conference Series-Materials Science and Engineering Volume: 133 Article Number: UNSP 012037 Published: 2016.
6. O. M. Machidon, P. A. Cotfas, D. T. Cotfas, FPGA-enabled Hardware Multitasking Applications in Energy Harvesting Laboratories, 22nd IEEE International Symposium for Design and Technology in Electronic Packaging (SIITME) Location: Oradea, Romania, OCT 20-23, 2016.
7. P. A. Cotfas, D. T. Cotfas, O. M. Machidon, Modelling and PSPICE simulation of a Photovoltaic/Thermoelectric system 22nd IEEE International Symposium for Design and Technology in Electronic Packaging (SIITME) Location: Oradea, Romania, OCT 20-23, 2016.
8. P. A. Cotfas, D. T. Cotfas, Graphical System Design Approach in Photovoltaic Energy Laboratories, 21st IEEE International Symposium for Design and Technology in Electronic Packaging (SIITME) Location: Brasov, ROMANIA Date: OCT 22-25, 2015.
9. P. A. Cotfas D. T. Cotfas, C. Gerigan, Simulated, Hands-on and Remote Laboratories for Studying the Solar Cells, Int Aegean Conference on Electrical Machines and Power Electronics (ACEMP) / Int Conference on Optimization of Electrical and Electronic Equipment (OPTIM) / Int Symposium on Advanced Electromechanical Motion Systems (ELECTROMOTION) Location: Side, TURKEY Date: SEP 02-04, 2015.
10. D. T. Cotfas, P. A. Cotfas, D. Floroian, L. Floroian, M. Cernat, Ageing of Photovoltaic Cells Under Concentrated Light, Int Aegean Conference on Electrical Machines and Power Electronics (ACEMP) / Int Conference on Optimization of Electrical and Electronic Equipment (OPTIM) / Int Symposium on Advanced Electromechanical Motion Systems (ELECTROMOTION) Location: Side, TURKEY Date: SEP 02-04, 2015.
11. P. A. Cotfas D. T. Cotfas, L. Floroian, D. Floroian, General Physics Remote Laboratory based on the NI ELVIS Platform and Moodle, 2014 11th International Conference On Remote Engineering And Virtual Instrumentation (Rev), 2014.
12. O. Machidon, F. Sandu, M. Chitic, P. Cotfas, D. T. Cotfas, Design and deployment of reconfigurable hardware using Web Services, RoEduNet Conference 13th Edition: Networking in Education and Research Joint Event RENAM 8th Conference, 2014, IEEE XPLORE, Doi 10.1109/RoEduNet-RENAM.2014.6955295.
13. D.T. Cotfas, L. Floroian, P.A. Cotfas, D. Floroian, R. Rubin, D. Lieberman, The study of the photovoltaic cells parameters in concentrated sunlight, Optimization of Electrical and Electronic Equipment (OPTIM), 2014, IEEEExplore, 10.1109/OPTIM.2014.6850916.
14. O. Machidon, F. Sandu, C. Zaharia, P.A. Cotfas, D.T. Cotfas, Remote SoC/FPGA platform configuration for cloud applications, Optimization of Electrical and Electronic Equipment (OPTIM), 2014, IEEEExplore, 10.1109/OPTIM.2014.6850986.
15. C. Samoila, D. Ursutiu, P. A. Cotfas, D. T. Cotfas, TRIZ method and remote engineering approach, Global Engineering Education Conference (EDUCON), 2013 IEEE, pp 1 – 4, ISSN :2165-9559 E-ISBN :978-1-4673-6109-5 Print ISBN: 978-1-4673-6111-8 INSPEC Accession Number:13579822 (IEEE Xplore).

16. D. T. Cofas, P. A. Cofas, D. Ursutiu, C. Samoila, RELab - virtual laboratory of the renewable energy, 10th International Conference on Remote Engineering and Virtual Instrumentation (REV) Location: Sydney, AUSTRALIA, 2013
17. P. A. Cofas, D. T. Cofas, C. Samoila, Mobile Virtual Laboratory for Renewable Energy , 10th International Conference on Remote Engineering and Virtual Instrumentation (REV) Location: Sydney, AUSTRALIA, 2013
18. D. Floroian, L. Floroian, R. Rubin, D. Lieberman, P.A. Cofas, D.T. Cofas, D. Ursutiu, C. Samoila, Remote Controlled Robot for Automatic Measurements in Concentrated Sun, International Conference on Remote Engineering and Virtual Instrumentation (REV) Location: Sydney, AUSTRALIA, 2013
19. P. A. Cofas, D. T. Cofas, RG. Oros, D. Ursutiu, C. Samoila, Temperature monitoring and control with cloud instrumentation, 17th Annual Scientific Conference on Web Technology, New Media Communications and Telematics Theory Methods, Tools and Applications Location: Bucharest, ROMANIA Date: APR 18-20, 2012.
20. D. T. Cofas, P. A. Cofas, D. Ursutiu, C. Samoila, The Methods to Determine the Series Resistance and the Ideality Factor of Diode for Solar Cells-Review, 13th International Conference on Optimization of Electrical and Electronic Equipment Location: Brasov, Romania, MAY 24-26, 2012.
21. P. Borza, D. T. Cofas, P. A. Cofas, D. T. Cofas, MC Carp, PV Cells Test Bench System with Remote Access Trough Internet,13th International Conference on Optimization of Electrical and Electronic Equipment Location: Brasov, Romania, MAY 24-26, 2012.
22. C. Samoila, D. Ursutiu, P. A. Cofas, D. T. Cofas, Remote experiment and correlation with innovation process, Interactive Collaborative Learning (ICL), 2012 15th International Conference on Villach 2012, pp. 1 – 4, E-ISBN :978-1-4673-2426-7 Print ISBN:978-1-4673-2425-0, INSPEC Accession Number:13248360, IEEE Xplore, 10.1109/ICL.2012.6402073
23. D.T. Cofas, P.A. Cofas, D. ursutiu, C. Samoila, Current-Voltage Characteristic Raising Techniques for Solar Cells. Comparisons and Applications, proceedings Optim 2010, IEEE Xplore, 10.1109/OPTIM.2010.5510373, ISSN: 1842-0133, Print ISBN: 978-1-4244-7019-8
24. P. Vizureanu , S. Cornel, D. C. Achitei, M. C. Perju, R. G. Stăfănică, D. T. Cofas, Interdisciplinary researches of the potential limits for the solar energy in solids on heating-melting range, ModTech International Conference - New face of TMCR, 20-22 May 2010, IDS Number: BRF28, ISSN: 2066-3919, pp: 671-674, Web of Science® – with Conference Proceedings

BDI

1. S. Mahmoudinezhad, P.A. Cofas, D.T. Cofas, A. Rezaia, L.A. Rosendah: Performance evaluation of a high-temperature thermoelectric generator under different solar concentrations, Energy Procedia 147, 624-630, 2018.
2. D.T. Cofas, Cofas, P.A., Cataron, A. Using the genetic algorithm to determine the parameters of photovoltaic cells and panels, 2018 13th International Symposium on Electronics and Telecommunications, ISETC 2018 - Conference Proceedings, IEEE Xplore, Scopus, 2018.
3. D. Floroian, L. Floroian, R. Rubin, D. Lieberman, P. Cofas, D. T. Cofas, D. Ursutiu, C. Samoila, Measurements in Concentrated Sun using a Remote Controlled Robot, International Journal of Online Engineering (iJOE), vol 9, 2013.
4. D.T. Cofas, P.A. Cofas, D. Ursutiu, C. Samoila, Energy balance for different positions of photovoltaic panels, REV2012 - Remote Engineering & Virtual Instrumentation, Bilbao, June 2012, IEEE Xplore 10.1109/REV.2012.6293139.
5. P.A. Cofas, D.T. Cofas, D. Ursutiu, C. Samoila, Tester for photovoltaic charger using NI cRIO, REV2012 - Remote Engineering & Virtual Instrumentation, Bilbao, June 2012, IEEE Xplore 10.1109/REV.2012.6293136.
6. F. Corciova, D.T. Cofas, P.A. Cofas, Embedded system for mini solar vehicle, REV2012 - Remote Engineering & Virtual Instrumentation, Bilbao, June 2012, IEEE Catalog Number: CFP1249T-USB ISBN: 978-1-4673-2541-7. 10.1109/REV.2012.6293140.
7. E. Blaga, P.A. Cofas, D.T. Cofas, M. Balint, Tensile testing machine based on virtual instrumentation, REV2012 - Remote Engineering & Virtual Instrumentation, Bilbao, June 2012, IEEE Catalog Number: CFP1249T-USB ISBN: 978-1-4673-2541-7. 10.1109/REV.2012.6293170.
8. D.T. Cofas, P.A. Cofas, The Wireless Albedometer, Journal of Engineering Science and Technology Review 5 (4), 35 -37, 2012.(Scopus).
9. P. N. Borza, D.T. Cofas, P.A. Cofas, A. Pologea, Improvements on Photovoltaic Cells Test Bench System, Journal of Engineering Science and Technology Review 5 (4), 38 - 41, 2012.(Scopus).
10. D. Ursutiu, C. Samoila, P. Cofas, D.T. Cofas, D.V. Pop, M. E. Auer, D.G. Zutin, Multifunction iLab Implemented Laboratory, Global Engineering Education Conference Educon, Amman, 4-6 April 2011, 10.1109/EDUCON.2011.5773135, IEEE Xplore.

11. C. Samoila, D. Ursutiu, P.A. Cotfas, D.T. Cotfas, A.Stefan, Methods of the quality assurance applied at the remote laboratory selection, Education Engineering (EDUCON), 2010 IEEE, Madrid, E-ISBN : 978-1-4244-6570-5, Print ISBN: 978-1-4244-6568-2, INSPEC Accession Number: 11390935, Digital Object Identifier : 10.1109/EDUCON.2010.5492398 (IEEE Xplore).
12. D. Ursutiu, D.T. Cotfas, M. Ghercioiu, C. Samoila, P.A. Cotfas, M. Auer, WEB Instruments, Education Engineering (EDUCON), 2010 IEEE, Madrid, E-ISBN978-1-4244-6570-5, Print ISBN: 978-1-4244-6568-2, INSPEC Accession Number: 11391040 Digital Object Identifier: 10.1109/ EDUCON. 2010.5492525.
13. C. Samoila, D. Ursutiu, P.A. Cotfas, D.T. Cotfas, A. Stefan, Quantitative approaches remote experiment design, REV2012 - Remote Engineering & Virtual Instrumentation, Bilbao, June 2012, IEEE Catalog Number: CFP1249T-USB ISBN: 978-1-4673-2541-7.
14. P.A. Cotfas, D.T. Cotfas D. Ursutiu, C. Samoila, Remote Laboratory in Photovoltaics revista:International Journal of Online Engineering, vol 5, no. 3, pp.14-18, 2009.
15. D. Ursutiu, D. Iordache, P. A. Cotfas, D. T. Cotfas , C. Samoila, Web Development Techniques and Remote Laboratories revista:International Journal of Online Engineering, 5 (5), pp. 81-83, BDI1:DBLP issn:18612121, 2009.
16. D. T. Cotfas, P. Cotfas, S. Kaplanis, D. Ursutiu, C. Samoila, "Sun tracker system vs fixed system" Bulletin of the Transilvania University of Brasov • Vol 1(50) - 2008Series III: Mathematics, Informatics, Physics, 545-552, ISSN 2065-2151 (Print), ISSN 2065-216X (CD-ROM).

ARTICOLE PUBLICATE IN VOLUME ALE CONFERINTELOR INTERNAȚIONALE

1. S. Mahmoudinezhad, D. T. Cotfas, A. Rezanian, P. A. Cotfas, L.A. Rosendahl, Transient Response of Bi₂Te₃ Based Thermoelectric Generator to Variant Solar radiation; An Experimental and Numerical study, Alternative Energy Sources, Materials & Technologies (AESMT'18), May, Plovdiv, Bulgaria.
2. D. T. Cotfas, P. A. Cotfas Comparative study of two commercial photovoltaic panels in natural sunlight conditions Alternative Energy Sources, Materials & Technologies (AESMT'18), May, Plovdiv, Bulgaria.
3. O. A. Rusanu, L. Cristea, M. C. Luculescu, P. A. Cotfas, D. T. Cotfas, Virtual keyboard based on a brain-computer interface, Advanced Mechanical & Mechatronic Systems and Innovation Conference, PRASIC'18. November 8 - 9, 2018, Braşov, Romania.
4. O. A. Rusanu, L. Cristea, M. C. Luculescu, P. A. Cotfas, D. T. Cotfas, Virtual robot arm controlled by hand gestures via Leap Motion Sensor, Advanced Mechanical & Mechatronic Systems and Innovation Conference • PRASIC'18. November 8 - 9, 2018, Braşov, Romania.
5. D. T. Cotfas, P. A. Cotfas Improvement of energy efficiency for photovoltaic cells using hybridization, 7th International Congress of Energy and Environment Engineering and Management (CIEM7), Las Palmas, Spain, 17th - 19th July 2017.
6. P. A. Cotfas, D. T. Cotfas Hybrid system efficiency in concentrated sunlight, 7th International Congress of Energy and Environment Engineering and Management (CIEM7), Las Palmas, Spain, 17th - 19th July 2017.
7. P. A. Cotfas, D. T. Cotfas, O. A. Rusanu, M. C. Luculescu, Energy and mechatronics applications based on NI myRIO, International Conference on Energy and Mechanical Engineering, Chengdu, China, 17-19.11.2017.
8. D.T. Cotfas, P.A. Cotfas, O.M. Machidon, Study of the photovoltaic/thermoelectric/solar collector - hybrid system, IV. European Conference on Renewable Energy Systems, ECRES 2016, 28-31 August 2016, Istanbul, TURKEY.
9. P. A. Cotfas, D. T. Cotfas, O. M. Machidon, C. Ciulavu, Performance evaluation of the thermoelectric generator International Conference AFASES, Brasov, May, 2016, vol. II, pp. 239-246, 2016.
10. P. N. Borza, D. T. Cotfas, P. A. Cotfas, M. Milanovic, M. Kadar, M. Komatina, I. E. Ceuca, Design Flow of the Intermittent Systems Connected to the Grid Enhanced with the Hybrid Storage Solutions, ESSCAP'2015 Brasov.
11. S. Spataru, D. Sera, T. Kerekes, R. Teodorescu, P.A. Cotfas, D.T. Cotfas, Experiment Based Teaching of Solar Cell Operation and Characterization Using the SolarLab Platform, 7th International Workshop on Teaching in Photovoltaics.
12. M. Ratzker, C. Samoila, D Ursutiu, P.Cotfas, D. T. Cotfas: "Intermetallic compounds nanotechnology for electric contacts at room temperature", ATTIS-IFHTSE Conference "Reduction of energy consumption in heat and thermochemical treatment technologies and instalations", 4-5 nov 2010, Brasov.
13. C.Samoila, D.Ursutiu, P.Cotfas, D.T. Cotfas, A.Stefan "Design of the remote experiment using the design of experiment principles (2)", International Conference Remote Engineering and Virtual Instrumentation REV 2009, 22-25 June, Bridgeport, 2009, Kassel Press, ISBN978-3-89958-352-6.

14. P.A. Cotfas, D. T. Cotfas, D. Ursutiu and C. Samoila "SolarLab, a System for Solar Cells Study", International Conference Remote Engineering and Virtual Instrumentation REV 2009, 22-25 June, Bridgeport, 2009, Kassel Press, ISBN978-3-89958-352-6.
15. D. Ursutiu, D. Iordache, P.A. Cotfas, D.T. Cotfas and C. Samoila "Modern Web Development Techniques in Remote Engineering", International Conference Remote Engineering and Virtual Instrumentation REV 2009, 22-25 June, Bridgeport, 2009, Kassel Press, ISBN978-3-89958-352-6.
16. C.I Samoila, D. Ursutiu, P. Cotfas, D.T. Cotfas, A. Stefan "General dimensional analysis for processing of experimental data obtained in the remote experiment", Conference ICL2009, September 24 -26, 2009 Villach, Austria, Kassel Press, ISBN978-3-89958-353-3.
17. D. Ursutiu, D. Iordache, P.A. Cotfas, D.T. Cotfas, C. Samoila: "New Technology Used in Remote Laboratories", International Conference Remote Engineering and Virtual Instrumentation REV2008, Dusseldorf, June, 2008, Kassel Press, ISBN978-3-89958-352-6.
18. P. A. Cotfas, D. T. Cotfas, D. Ursutiu, C. Samoila: "A New Remote Laboratory for the Photovoltaic Cells Study", International Conference Remote Engineering and Virtual Instrumentation REV2008, Dusseldorf, June, 2008, Kassel Press, ISBN978-3-89958-352-6.
19. C. Samoila, D Ursutiu, S.Zamfira, P.Cotfas, D. T. Cotfas: "Remote experiment will sustain the development of the creativity?", International Conference Remote Engineering and Virtual Instrumentation REV2008, Dusseldorf, June, 2008, Kassel Press, ISBN978-3-89958-352-6, preluat in INTERNET TECHNOLOGY SOLUTIONS, no 1. ITPS BLOOMFIELD COLLEGE, USA, 2008.
20. D. T. Cotfas, S. Kaplanis, P. A. Cotfas, D.Ursutiu, C. Samoila, A new albedometer based on solar cells, Proc. World Renewable Energy Congress X. Glasgow, 2008.
21. P. A. Cotfas, D. T. Cotfas, D. Ursutiu, C. Samoila: "LabVIEW and NOVA 5000 in Remote Laboratories", Conference ICL2008, September 24 -26, 2008 Villach, Austria, Kassel Press, ISBN978-3-89958-353-3.
22. C. Samoila, D. Ursutiu, P. Cotfas, D. T. Cotfas: "Creativity and remote experiment as a tool for its sustaining", Conference ICL2008, September 24 -26, 2008 Villach, Austria, Kassel Press, ISBN978-3-89958-353-3.
23. D. T. Cotfas, S. Kaplanis, P. Cotfas, D. Ursutiu, C. Samoila: "A new method for solar cells calibration", 2nd Conference on sustainable energy, Brasov, 2008, ISBN978-973-598-316-1.
24. D. T. Cotfas, Cotfas P., Ursuțiu D., Kaplanis S., Samoila C.: "Virtual Instrumentation in the solar cell characterization", International Symposium on Remote Engineering and Virtual Instrumentation REV2007, Porto, 25-27 June, 2007, Kassel Press, ISBN978-3-89958-352-6.
25. D. T. Cotfas, P. Cotfas, D. Ursutiu, C. Samoila "The implementation of a biaxial monitoring system for the maximum of the solar radiation" Symposium on Remote Engineering and Virtual Instrumentation REV2006, Maribor – Slovenia, 29-30 June, ISBN3-89958-194-6, 2006.
26. D. T. Cotfas, Petru Cotfas, Doru Ursutiu "The automatic monitorizing system of the global solar radiation" Second Int. Simposium on Remote Engineering and Virtual Instrumentation REV2005, Brasov – Romania, 30 June -1 July 2005, Kassel Press ISBN3-89958-137-7.
27. D. T. Cotfas, Doru URSUTIU, S. KAPLANIS, Ion VISA, Petru COTFAS: "On an experimental set-up to study pv-cells quantum efficiencies : first results", 8th International conference on optimization of electrical and electronic equipments, 16-17 may Brasov, 2002, p. 257-260; preluat in Journal of Electrical Engineering, vol.3, 2003, (ISSN1582-4594).

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