



Curriculum vitae Europass

Informații personale

Nume / Prenume **Cotfas Daniel Tudor**

Adresă(e) 1 Politehnicii, 500024, Brașov, Romania

Telefon(oane)

Fax(uri)

E-mail(uri) dtcotfas@unitbv.ro

Naționalitate(-ități) Română

Data nașterii 24.07.1970

Sex Masculin

Domeniul pentru care are conducerea de doctorat

Inginerie Electronică, Telecomunicații și Tehnologii Informaționale

Anul obținerii dreptului de conducere doctorat: 2019

Experiența profesională

Perioada Oct 2020 - prezent

Funcția sau postul ocupat Profesor

Activități și responsabilități principale Predare și cercetare

Numele și adresa angajatorului Univ. Transilvania din Brașov

Perioada Feb 2015-Sep 2020

Funcția sau postul ocupat Conferențiar

Activități și responsabilități principale Predare și cercetare

Numele și adresa angajatorului Univ. Transilvania din Brașov

Perioada Oct 2004-Feb 2015

Funcția sau postul ocupat Șef Lucrări

Activități și responsabilități principale Predare și cercetare

Numele și adresa angajatorului Universitatea Transilvania din Brașov

Perioada Oct.2002-Sep 2004

Funcția sau postul ocupat Asistent

Activități și responsabilități principale Predare și cercetare

Numele și adresa angajatorului Universitatea Transilvania din Brașov

Perioada Sept. 1995-Sept. 2002

Funcția sau postul ocupat Profesor de matematică

Activități și responsabilități principale	Predare							
Numele și adresa angajatorului	Gr. Șc. Ind. Construcții – Mașini “Astra” Brașov							
Educație și formare								
Perioada	2019							
Calificarea / diploma obținută	Abilitare							
Disciplinele principale studiate / competențe profesionale dobândite	Surse regenerabile de energie							
Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea Transilvania din Brasov, Facultatea de Inginerie Tehnologică							
Perioada	2002-2008							
Calificarea / diploma obținută	Titlu de Doctor							
Disciplinele principale studiate / competențe profesionale dobândite	Surse regenerabile de energie							
Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea Transilvania din Brasov, Facultatea de Inginerie Tehnologică							
Perioada	2000-2001							
Calificarea / diploma obținută	Master							
Disciplinele principale studiate / competențe profesionale dobândite	Statistică, probabilități și fiabilitatea sistemelor							
Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea Transilvania din Brașov, Facultatea de Științe							
Perioada	1990-1995							
Calificarea / diploma obținută	Diploma de licență							
Disciplinele principale studiate / competențe profesionale dobândite	Matematică, Fizică							
Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea Transilvania din Brașov, Facultatea de Științe							
Aptitudini și competențe personale								
Limba(i) maternă(e)	Română							
Limba(i) străină(e) cunoscută(e)								
Autoevaluare	Înțelegere				Vorbire		Scriere	
Nivel european (*)	Ascultare		Citire		Participare la conversație		Discurs oral	
Engleza		B1		B2		B1		B1
Franceza		A1		A2		A1		A1
(*) Nivelul Cadrului European Comun de Referință Pentru Limbi Străine								
Competențe și abilități sociale	Bune competențe de comunicare și spirit de echipă							

Competențe și aptitudini organizatorice	Manageriale dobândite prin proiectele pe care le-am condus
Competențe și aptitudini tehnice	Utilizarea echipamentelor de cercetare, experimentare, prelucrare de date
Competențe și aptitudini de utilizare a calculatorului	Utilizare avansată în: Microsoft Office, LabVIEW, Origin, Comsol
Alte competențe și aptitudini	Energii regenerabile, Matematică, Fizică Generală, Optică, Optoelectronică, Instrumentație virtuală
Permis(e) de conducere	B

Informații suplimentare	a) Director proiect Cercetări asupra sistemelor solare hibride fotovoltaice/termoelectrice/termice PV/TEG/STC. (2015-2017) Parteneriate II 135/1.10.2015 (UEFISCDI, 545600 lei) Tehnologii de precipitare dispersă în stare solidă, la nivel nanometric, folosind câmpuri termice cu cicluri staționare și tranzitorii alternante. (2008-2011) Parteneriate II 72 163 (CNMP, 225000 lei) The study of the evolution of the photovoltaic cells parameters during the ageing process using the concentrated light and the temperature, (2014) Sfera II (CORDIS FP7-INFRASTRUCTURES, 18050 Euro) The ageing time evolution of the solar cells in function of the concentrated light levels, (2015) Sfera II (CORDIS FP7-INFRASTRUCTURES, 18630 Euro) The behaviour of the solar hybrid structures in medium and high concentrated light, (2016) Sfera II (CORDIS FP7-INFRASTRUCTURES, 18050 Euro) Study of new thermoelectric generator's important parameters in concentrated light, (2017) Sfera II (CORDIS FP7-INFRASTRUCTURES, 20415 Euro) Analysis of PV-TEG hybrid system with a beam splitter in concentrated light using the solar tower, (2021) Sfera III (CORDIS FP7-INFRASTRUCTURES, 19400 Euro) Study of the enhancement in performance of solar thermoelectric generators using absorber layers in low and medium concentrated light, (2023) Sfera III (CORDIS FP7-INFRASTRUCTURES, 21400 Euro) b) Premii • Gold medal EUROINVENT 2015 – The 7th European Exhibition of Creativity and Innovation • National Instruments Graphical System Design Achievement Awards 2013 Education Winner • National Instruments Graphical System Design Achievement Awards 2013 NI Community's Choice • National Instruments Graphical System Design Achievement Awards 2013 Editor's Choice Award • Best paper (poster) at REV 2012 Embedded system for mini solar vehicle (http://rev-conference.org/REV2012/) • 1st prize at 2012 Romania NIDays Paper Contest c) o sinteză a principalelor realizări: • teza - <i>Investigation on parameters affecting the photoconversion efficiency in Pv-cells based on Si and CdTe</i> • 1 carte publicată în edituri internaționale • 1 carte editată în edituri internaționale • 9 capitole de cărți publicate în edituri internaționale • 6 cărți publicate în edituri naționale • 149 de articole ➢ 84 lucrări indexate ISI ➢ 27 lucrări indexate BDI ➢ 38 lucrări în volumele conferințelor • 1 brevet și o cerere de brevet • 5 invitații - Keynote Speaker • peste 200 de recenzii pentru jurnale cotate ISI: ○ Renewable & Sustainable Energy Reviews ○ Applied Energy ○ Solar Energy ○ Applied Thermal Engineering ○ IEEE Transactions on Instruments ○ Energy Science & Engineering ○ Journal of Solar Energy Engineering ○ Measurement ○ Journal of Green Energy ○ Sustainable Energy Technologies and Assessments ○ Silicon ○ Meteorology and Atmospheric Physics ○ Bulgarian Chemical Communications ○ Indian Journal of Pure & Applied Physics (IJPAP) ○ Surface and Coatings Technology ○ Frontiers in Energy Research ○ Energies ○ Nano Energy ○ Energy reports ○ Energy Indici Hirsch: Google Scholar: 26; Scopus: 23; Web of Science Clarivate Analytics: 20 Editor: International Journal of Photoenergy, Frontiers in Energy Research Lead editor și Guest Editor: Frontiers in Energy Research, International Journal of Photoenergy, Energies, Mathematics, Photonics.
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LISTA DE LUCRĂRI (selecție)

BREVET

1. Metodă și dispozitiv de testare accelerată a timpului de îmbătrânire a celulelor fotovoltaice – ARCL

CERERE BREVET

1. Sistem hibrid PV/TEG/STC pentru încălzire a apei dintr-o piscină

CĂRȚI / CAPITOLE DE CĂRȚI

1. P. Cotfas, D.T. Cotfas, 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. Cotfas and Petru A. Cotfas: 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. Cotfas, D. T. Cotfas, 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 formei" 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.
10. Cotfas, D.T., Cotfas, P.A. (2024). Introduction and Literature Review to Deployment of Photovoltaic Systems in Sustainable Buildings. In: Nazari-Heris, M. (eds) Natural Energy, Lighting, and Ventilation in Sustainable Buildings. Indoor Environment and Sustainable Building. Springer, Cham. https://doi.org/10.1007/978-3-031-41148-9_4;
11. P.A. Cotfas, D.T. Cotfas and Horia Hedesiu, 'Virtual Instrumentation Used in Renewable Energy', LabVIEW - Virtual Instrumentation in Education and Industry, IntechOpen, 2024. doi.org/10.5772/intechopen.110298;
12. P.A. Cotfas, D.T. Cotfas and Horia Hedesiu, Introductory Chapter: An Overview of Using Virtual Instrumentation, in LabVIEW - Virtual Instrumentation in Education and Industry, IntechOpen, Mar. 06, 2024.
13. P.A. Cotfas, D.T. Cotfas and Horia Hedesiu, LabVIEW - Virtual Instrumentation in Education and Industry, Intechopen, 2024 978-1-83969-064-8, 0.5772/intechopen.102279 (Editors)
14. DT Cotfas, PA Cotfas, Chapter 9 - Spectral characteristics of solar cells, in Spectral Characteristics of Solar Radiation Applications in Photovoltaic Conversion, 2025, Pages 247-278, Elsevier
15. F Radu, E Tuyishime, PA Cotfas, DT Cotfas, T Balan, A Rekeraho, Online Serial Laboratories, in Online Laboratories in Engineering and Technology Education, 375–390, Springer Nature Link, 2025
16. Saman Hameed, Petru Adrian Cotfas, Carolina Piña Ramírez, Ahmed Ibrahim, Leijiao Ge, Vanja Asanovic, Anurag Sharma, Alissar Yehya, Daniel Tudor Cotfas, Chapter 6 - Concentrating and nonconcentrating solar energy technologies, in Renewable Energy Technologies editata de F Sher, Elsevier 2026
17. Ushna Khalid, Mahnoor Khan, Daniel Tudor Cotfas, Majlinda Daci, Farooq Sher, Elena Romanovskaia, Petru Adrian Cotfas, Tazien Rashid, Anurag Sharma, Shuyao Wang, Jerome Gabutero Gacu, Katarzyna Kalinowska-Wichrowska, Chapter 5 - Renewable energy strategies for achieving net zero, in Net ZERO: Foundations, Technologies and Strategic Innovation , editata de F Sher, Elsevier 2026

ARTICOLE ÎN REVISTE

ISI

1. OP Baluja, BY Leon Avila, CA Garcia Vazquez, DT Cotfas, P Cotfas Back Flash Overvoltage Damages All DC/AC Converters in Photovoltaic Systems, IEEE ACCESS 14, 2463-2485, 2026
2. DT Cotfas, PA Cotfas, CAG Vázquez, OP Baluja, L Ávila, Advancements in buildings integration of the photovoltaic cells and thermoelectric modules, Energy Strategy Reviews 62, 101908, 2025
3. AM Comșit, DT Cotfas, PA Cotfas, Smart Design and Deployment of Standalone PV System in Mountain Area in Romania, International Journal of Energy Research 2025 (1), 1993818, 2025
4. BYL Ávila, CAG Vázquez, OP Baluja, DT Cotfas, PA Cotfas, Energy harvesting techniques for wireless sensor networks: A systematic literature review Energy Strategy Reviews 57, 101617, 2025

5. A Younis, PA Cotfas, DT Cotfas, Incentivizing photovoltaic panel cleaning in green building standards: A policy framework, *Energy for Sustainable Development* 87, 101738, 2025
6. A Younis, M Louzazni, PA Cotfas, DT Cotfas, Effects of Dust Accumulation on the Performance of the Photovoltaic Panels on Buildings: A Case Study, *International Journal of Energy Research*, 2025 (1), 2720932
7. A Younis, F Belabbes, PA Cotfas, DT Cotfas, Enhanced Electrical Characterization of Dusty Solar Modules: Integrating Outdoor Experiments With Single-and Double-Diode Models. *International Journal of Energy Research* 2025 (1), 5792330
8. CAG Vázquez, DT Cotfas, AIG Santos, PA Cotfas, L Ávila, VP Garrido, Optimal tuning of PID controllers focused on energy efficiency in a multivariable and coupled system. Case study: An AHU in the biopharmaceutical industry, *Applied Thermal Engineering* 269, 126053, 2025
9. E Tuyishime, M Martalò, PA Cotfas, V Popescu, DT Cotfas, A Rekeraho, Resource-Efficient Traffic Classification Using Feature Selection for Message Queuing Telemetry Transport-Internet of Things Network-Based Security Attacks, *Applied Sciences* 15 (8), 4252, 2025
10. A Rekeraho, DT Cotfas, TC Balan, PA Cotfas, R Acheampong, Cybersecurity Threat Modeling for IoT-Integrated Smart Solar Energy Systems: Strengthening Resilience for Global Energy Sustainability, *Sustainability* 17 (6), 2386, 2025
11. A Rjafallah, DT Cotfas, PA Cotfas, Enhancing solar thermoelectric generator performance using metal oxide layer absorbers under concentrated solar radiation, *Case Studies in Thermal Engineering* 67, 105808, 2025
12. DT Cotfas, A Enesca, PA Cotfas, Enhancing the performance of the solar thermoelectric generator in unconcentrated and concentrated light. *Renewable Energy* 221, 119831, 2024.
13. CAG Vázquez, DT Cotfas, AIG Santos, PA Cotfas, L Ávila, Reduction of electricity consumption in an AHU using mathematical modelling for controller tuning. *Energy*, 130619, 2024.
14. A Younis, A Rjafallah, PA Cotfas, DT Cotfas, Dust impact on electrical and thermal photovoltaic performance: Insights from field and laboratory experiments. *Energy Reports* 11, 2099-2110, 2024.
15. A Younis, PA Cotfas, DT Cotfas, Systematic indoor experimental practices for simulating and investigating dust deposition effects on photovoltaic surfaces: A review, *Energy Strategy Reviews* 51, 101310, 2024.
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21. DT Cotfas, PA Cotfas, S Mahmoudinezhad, M Louzazni, Critical factors and parameters for hybrid photovoltaic-thermoelectric systems; review, *Applied Thermal Engineering*, 118977, 2022.
22. M Madhiarasan, DT Cotfas, PA Cotfas, Barnacles Mating Optimizer Algorithm to Extract the Parameters of the Photovoltaic Cells and Panels, *Sensors* 22 (18), 6989, 2022.
23. S Mahmoudinezhad, PA Cotfas, DT Cotfas, EJH Skjølstrup, K Pedersen, et al. An Experimental Study on Transient Response of a Hybrid Thermoelectric–Photovoltaic System with Beam Splitter, *Energies* 14 (23), 8129, 2022.
24. S. Mahmoudinezhad, D.T. Cotfas, P.A. Cotfas, E.J.H. Skjølstrup, K. Pedersen, A. Rezanian, L.A. Rosendahl, Experimental investigation on spectrum beam splitting photovoltaic–thermoelectric generator under moderate solar concentrations, *Energy* 238, 121988, 2022.
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27. B. Belmahdi, M. Louzazni, M. Akour, D.T. Cotfas, P.A. Cotfas, A.E. Bouardi, Long-Term Global Solar Radiation Prediction in 25 Cities in Morocco Using the FFNN-BP Method, *Frontiers in Energy Research* 9, 1-19, 2021.
28. M. Louzazni, H. Mosalam, D.T. Cotfas, Forecasting of Photovoltaic Power by Means of Non-Linear Auto-Regressive Exogenous Artificial Neural Network and Time Series Analysis, *Electronics* 10(16), 1-17, 2021.
29. P.A. Cotfas, D.T. Cotfas, Solar Hybrid System Component Study in Low Concentrated Sunlight, *International Journal of Photoenergy*, 2021.
30. A.M. Deaconu, D.T. Cotfas, P.A. Cotfas, Calculation of Seven Photovoltaic Cells Parameters Using Parallelized Successive Discretization Algorithm *International Journal of Photoenergy* 2020.
31. P.A. Cotfas, D.T. Cotfas Comprehensive Review of Methods and Instruments for Photovoltaic–Thermoelectric Generator Hybrid System Characterization, *Energies* 13 (22), 6045, 2020.
32. M. Louzazni, D.T. Cotfas, P.A. Cotfas, Management and Performance Control Analysis of Hybrid Photovoltaic Energy Storage System Under Variable Solar Irradiation, *Energies* 13 (12), 3043, 2020.

33. S. Mahmoudinezhad, P.A. Cotfas, D.T. Cotfas, L.A. Rosendahl, A. Rezaia, Response of thermoelectric generators to Bi₂Te₃ and Zn₄Sb₃ energy harvester materials under variant solar radiation, *Renewable Energy* 146, 2488-2498, 2020.
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37. D.T. Cotfas, P.A. Cotfas, Comparative Study of Two Commercial Photovoltaic Panels under Natural Sunlight Conditions, *International Journal of Photoenergy* 2019, 2019.
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39. S. Mahmoudinezhad, S. Ahmadi Atouei, P.A. Cotfas, D.T. Cotfas, L.A. Rosendahl, A. Rezaia, Experimental and numerical study on the transient behavior of multijunction solar cell-thermoelectric generator hybrid system, *Energy Conversion and Management* 184, 448-455, 2019.
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41. D.T. Cotfas, P.A. Cotfas, O.M. Machidon: Study of Temperature Coefficients for Parameters of Photovoltaic Cells, *International Journal of Photoenergy*, 2018.
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43. S. Mahmoudinezhad, A. Rezaia, 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.
44. 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.

ISI (conferințe)

1. D. T. Cotfas, PA Cotfas, A. Cataron, Using the genetic algorithm to determine the parameters of photovoltaic cells and panels, 2018 International Symposium on Electronics and Telecommunications (ISETC), Timisoara, 2018.
2. D. T. Cotfas, PA 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.
3. 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, Brasov Romania.
4. 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).
5. 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.
6. 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.
7. 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.
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9. 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.
10. 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.
11. 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.
12. 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.

13. 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.
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15. 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.
16. 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).
17. D. T. Cotfas, P. A. Cotfas, 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
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