

LISTA DE LUCRĂRI

(Profesor, Seritan George-Călin)

I. TEZA (E) DE DOCTORAT (T)

„Contribuții privind analiza și sinteza lanțurilor de măsurare a puterii și energiei electrice“- 2003

II. CĂRȚI PUBLICATE (C)

Cb1 - Porumb R., **Seritan G.** – book: Green Energy Advances – chapter: *Integration of Advanced Technologies for Efficient Operation of Smart Grids*, IET Inspec, EBSCO, DOI: 10.5772/intechopen.77501, ISBN: 978-1-78984-200-5, 2019.

Cb2 - **Seritan G.**, Porumb R., Cepisca C., Grigorescu S.D. – book: *Electricity distribution – Intelligent Solutions for Electricity Transmission and Distribution Networks* – chapter: *Integration of Dispersed Power Generation*, Editors: Karampelas, K, Ekonomu, L., Series: Energy Systems, pp. 27-61, Springer, 2016, ISBN: 978-3-662-49434-9.

Cb3 - Asensio M., Pilar meneses de Quevedo, Contreras J., Monteiro C., Porumb R., Tristiu I., **Seritan G.**- book *Smart and Sustainable power systems: Operations, Planning and Economics of Insular Electricity grids* - chapter: *Electric price signals, Economic operation and Risk Analysis*, pp. 285-345, Ed. CRC Press Taylor&Francis Group, 2015, ISBN: 9781498712125 - CAT #K25101.

Cb4 - Enache B.A., **Seritan G.C.**, Porumb R.F., Ghiculescu L.D. *Elaborarea articolelor științifice - Noțiuni și idei de redactare/Elaboration of scientific articles - writing ideas and concepts*, Ed. Politehnica Press, 2020, 86 pag, ISBN: 978-606-515-899-3.

Cb5 - **Seritan G.C.**, Adochiei F., Argatu F., Capișcă C. *Senzori biomedicali și instrumentație*, Ed. Politehnica Press, 2015, 175 pag. ISBN: 978-606-515-650-0.

Cb6 - **Seritan G.**, Capișcă C. *Măsurări electrice și electronice*, Ed. Politehnica Press, București, 2013, 304 pag., ISBN: 978-606-515-444-5.

Cb7 - Argatu F., Capișcă C., Bardis N., **Seritan G.** *Măsurări și control utilizate în iluminatul public*, Ed. Electra, București, 2010, 154 pag., ISBN: 978-606-507-048-6.

Cb8 - Bănică C., **Seritan G.**, Capișcă C. *Sisteme informatizate de măsurare*, Editura Electra, București, 2009, 149 pag., ISBN: 978-606-507-030-1.

Cb9 - Andrei H., Capișcă C., **Seritan G.C.**, Dogaru-Ulieru V. *Regimuri periodice nesinusoidale în echipamentele electrice*, Ed. ELECTRA, București, 2004, pag. 100, ISBN: 973-7728-00-9.

Cb10 - **Seritan G.C.**, Capișcă C., Ganatsios S. *Energia electrică și măsurarea ei*, Ed. Electra, 2004, 200 pag, ISBN: 973-7728-09-2.

III. ALTE MATERIALE PUBLICATE (I,D)

I1 - **Seritan, G. C.**, Enache, B. A., Vilciu, I., Voicila, T. I. (2024). *Electrical Experiments – From fundamentals to advanced measurements Vol. 1*. Editura POLITEHNICA Press, 95 pag., ISBN 978-630-339-001-7.

I2 - Seritan, G. C., Enache, B. A., Vilciu, I., Voicila, T. I. (2025). *Electrical Experiments – From fundamentals to advanced measurements Vol. 2*. Editura POLITEHNICA Press, 91 pag., ISBN 978-630-339-006-2.

I3 - Seritan G.C., Cepisca C., Argatu F., Adochiei F., Ancuta F.- Masurarea marimilor electrice in energetica Indrumar Energetica- 2015, 120 pag, Ed. Politehnica Press, ISBN 978-606-515-629-6ş

I4 - Seritan G.C., Cepisca C., Adochiei F., Argatu F., Ancuta F.- Masurari electrice si electronice - Indrumar Inginerie Electrica - 2015, 106 pag, Ed. Politehnica Press, ISBN 978-606-515-609-8

I5 - Argatu F., Seritan G.C., Adochiei F.C., Enache B.A., Cepisca C., Grigorescu S.D. – Senzori biomedicali, Indrumar de laborator, Ed. Politehnica Press 2018, 142 pag, ISBN 978-606-515-803-0

IV. ARTICOLE / STUDII IN EXTENSO PUBLICATE (R,V)

Ris1 - Cortea, I. M., Chiroşca, A., Angheluţă, L. M., & Seritan, G., INFRA-ART: An Open Access Spectral Library of Art-Related Materials as a Digital Support Tool for Cultural Heritage Science. ACM Journal on Computing and Cultural Heritage, 2024. WOS:001045422200016

Ris2 - Gheorghe, A. C., Andrei, H., Diaconu, E., Seritan, G., & Enache, B., *Système Intelligent pour la Réduction de la Consommation Électrique en Veille des Équipements Ménagers*. Revue Roumaine des Sciences Techniques—Série Électrotechnique et Énergétique, 68(4), 2023, 413-418. WOS:001126934500015

Ris3 - Grigorescu, S. D., Seritan, G. C., Enache, B. A., Argatu, F. C., Adochiei, F. C., & Stanciu, V., *Indoor 3D scanning and navigation system for an automated guided vehicle*. Revue Roumaine des Sciences Techniques—série électrotechnique et énergétique, 2023, 68(2), 232-235. WOS:001026628400019

Ris4 - Seritan, G. C., Raicu, C. C., Enache, B. A., *Single-Wire Control and Fault Detection for Automotive Exterior Lighting Systems*. Sensors, 23(14), 6521, 2023. WOS:001039842200001

Ris5 - Leu, B., Seritan, G., & Enache, B., *A new hybrid model to evaluate the loss of life of power transformers*. Revue Roumaine des Sciences Techniques—série électrotechnique et énergétique, 68(3), 277-282, 2023. WOS:001087001200005

Ris6 - Seritan, GC; Enache, BA; Vilciu, I; Grigorescu, SD; Mladenov, V - *Comparison study of top development boards in the context of IOT*, Revue Roumaine des Sciences Techniques—série électrotechnique et énergétique, Volume 67, Issue 4, Page 483-486, Published OCT-DEC 2022, WOS:000932012700019

Ris7 - Ioana Maria Cortea, Luminița Ghervase, Roxana Rădvan, George Seritan - *Assessment of Easily Accessible Spectroscopic Techniques Coupled with Multivariate Analysis for the Qualitative Characterization and Differentiation of Earth Pigments of Various Provenance*, Minerals, 12(6), 755, 2022, <https://doi.org/10.3390/min12060755>, pages 27, WOS:000818369000001

Ris8 - Sima C., Popescu C, Popescu M., Roscia M., Seritan G., Panait C. - *Techno-economic assessment of university energy communities with on/off microgrid* - Renewable Energy 193, June 2022, Pages 538-553, Q1, WOS:000803887800010

Ris9 - Mladenov, V ; Chobanov, V; Seritan, GC; Porumb, RF; Enache, BA; Vita, V; Stanculescu, M; Van, TV; Bargiotas, D - *A Flexibility Market Platform for Electricity System Operators Using Blockchain Technology*, ENERGIES, Volume15, Issue2, Article Number 539, 2022, DOI10.3390/en15020539, WOS:000759106800001

Ris10 - Raicu, CC; Seritan, GC; Enache, BA - *48 V Network Adoption for automotive lightning systems* - Revue Roumaine des Sciences Techniques—série électrotechnique et

énergétique, Volume 66, Issue 4, Page 231-236, Published OCT-DEC 2021, Indexed 2022-03-04, WOS:000754884700004

Ris11 - Costel-Ciprian Raicu, **George-Călin Seritan**, Bogdan-Adrian Enache, Marilena Stănculescu - *Development Approach Model for Automotive Headlights with Mixed Delivery Methodologies over APQP Backbone*, Appl. Sci. 2021, 11(22), 10581, Q2, WOS:000725460900001

Ris12 - D. Enescu, P. Colella, A. Russo, R.F. Porumb, **G.C. Seritan** - *Concepts and Methods to Assess the Dynamic Thermal Rating of Underground Power Cables*, Energies 2021, 14(9), 2591; <https://doi.org/10.3390/en14092591>, WOS:000650173300001

Ris13 - C.A. Christodoulou, V. Vita, **G-C. Seritan**, L. Ekonomou - *A Harmony Search Method for the Estimation of the Optimum Number of Wind Turbines in a Wind Farm*, Energies, 2020, 13, 2777; doi:10.3390/en13112777, WOS:000545401100104

Ris14 - **Seritan, GC**; Enache, BA; Adochiei, FC; Argatu, FC; Christodoulou, C; Vita, V; Toma, AR; Gandescu, CH; Hathazi, FI: *Performance evaluation of photovoltaic panels containing cells with different bus bars configurations in partial shading conditions*, Revue Roumaine des Sciences Techniques—série électrotechnique et énergétique, Volume: 65 Issue: 1-2 Pages: 67-70, Published: JAN-JUN 2020, WOS000552052900011

Ris15 - Enache, BA; **Seritan, GC**; Cepisca, C; Grigorescu, SD; Argatu, FC; Adochiei; Voicila, TI- *Comparative study of screening methods for second life LIFEP04 batteries*, Revue Roum des Sciences Technique-Électrotechn. et Énerg., Volume: 65 Issue: 1-2 Pages: 71-74, Published: JAN-JUN 2020, WOS000552052900012

Ris16 - N. E Koltsaklis, A. S Dagoumas, **G. Seritan**, R. Porumb - *Energy transition in the South East Europe: The case of the Romanian power system*, Energy Reports, vol.6, pp 2376-2393, 2020, Elsevier, Q2, WOS:000602738200016

Ris17 - D. Enescu, G. Chicco, R. Porumb and **G. Seritan** - *Thermal Energy Storage for Grid Applications: Current Status and Emerging Trends*, Energies 2020, 13(2), 340; <https://doi.org/10.3390/en13020340>, Energies, Volume: 13 Issue: 2, Article Number: 340, WOS 000520432300054

Ris18 - Vita V, Lazarou S, Christodoulou C.A., **Seritan G.** - *On the Determination of Meshed Distribution Networks Operational Points after Reinforcement*, Appl. Sci. 2019, 9(17), 3501; <https://doi.org/10.3390/app9173501>, Applied Sciences (ISSN 2076-3417; CODEN: ASPCC7), Q2, WOS:000488603600063

Ris19 - **George-Călin Seritan**, Bogdan-Adrian Enache, Radu Porumb, Florin-Ciprian Argatu, Felix Constantin Adochiei, Vita Vasiliki - *Improvement Of Teaching Activities In Higher Education*, Revue roumaine des sciences techniques Série Électrotechnique et Énergétique, 2018, Publisher: Romanian Academy, Publishing House of the Romanian Academy Format: print and electronic ISSN: 0035-4066 Number of issues/year: 4 Clarivate (Thomson Reuters) JCR impact factor (2017/2018): 1.114 Pag. 437 – 440, WOS 000459843500014

Ris20 - S.V. Paturca; D.G. Petre; C.K Banica; A.M. Dumitrescu; **G. Seritan**; V. Bostan; I. Bostan; S. Grigorescu; R. Beloiu - *Telerobots development in bio-engineering curricula – a creative design approach*, Journal of Biotechnology, 2018, Impact Factor: 2.533, Volume: 280 Pages: S45-S46; Supplement: S, DOI: 10.1016/j.jbiotec.2018.06.145, ISSN: 0168-1656; eISSN: 1873-4863, WOS 000454825900142

Ris21 - Paturca, SV; Danescu, CM; Banica, CK, Grigorescu, SD, **Seritan, G** - *Principles of bio-monitoring and electronic records stored in data bases, applied by software development in bio-engineering laboratory*, Q2 - Journal of Biotechnology, Volume: 256, Supplement: S DOI: 10.1016/j.jbiotec.2017.06.992, Published: AUG 30 2017, ISSN: 0168-1656, eISSN: 1873-4863, WOS 000413585400177

Vis1 - Vlăduț-Andrei Ion, Eda-Elif Gemil, Mădălina Arhip-Calin, Andrei Tudose, Nicolae Anton, **George Seritan** - *A Survey of microgrid operation influence on power quality* - 57th International Universities Power Engineering Conference (UPEC), 2022. WOS: 000886926200086

Vis2 - Fetcu David Andrei, **George Seritan**, Bogdan Enache, Florin Ciprian Argatu, Felix-Constantin Adochiei - *Air Quality Monitoring and Control System for a Hospital Room*, International Conference on e-Health and Bioengineering (EHB), 2021. WOS:000802227900123

Vis3 - Enache, B. A., **Seritan, G. C.**, Cepiscă, C., Grigorescu, S. D., Argatu, F. C., Adochiei, F. C., & Voicila, T. I. *Flyback Converter for a Multi-Chemistry Battery Balancer*. In 2021 12th International Symposium on Advanced Topics in Electrical Engineering (ATEE) (pp. 1-6), WOS:000676164800086

Vis4- Mădălina Arhip-Călin, Cristian-Cornel Andrei, Gabriel Tudor, Alexandru Zamfirescu, Gratian Fierăscu, **George Seritan** - *Robust Electricity Consumption Forecast Based on Load Curves Analysis*, 2020 International Symposium on Fundamentals of Electrical Engineering (ISFEE), WOS:000812321500027

Vis5 - Felix-Constantin Adochiei, **George-Calin Seritan**, Bogdan-Adrian Enache, Florin-Ciprian Argatu, Andreea Roxanda Dobre - *The Influence of the Generator Signal Parameters Over the AntiBubbles Formation*, 2020 International Symposium on Fundamentals of Electrical Engineering (ISFEE), WOS:000812321500028

Vis6 - Felix-Constantin Adochiei, Șerban-Teodor Nicolescu, Ioana-Raluca Adochiei, **George-Calin Seritan**, Bogdan-Adrian Enache, Florin-Ciprian Argatu, Diana Costin - *Electronic System for Real-Time Indoor Air Quality Monitoring*, International Conference on e-Health and Bioengineering (EHB), 2020, WOS:000646194100066

Vis7 - Sorin-Dan Grigorescu, **George-Calin Seritan**, Bogdan-Adrian Enache, Felix-Constantin Adochiei, Florin-Ciprian Argatu, Andreea Stavre - *Robotic Platform for Recovering Injured People in Smart Home*, 2020 International Conference on e-Health and Bioengineering (EHB), WOS:000646194100141

Vis8 - **George-Calin Seritan**, Bogdan-Adrian Enache, Felix-Constantin Adochiei, Florin-Ciprian Argatu, Andrei-Sebastian Petrescu, Ioana-Raluca Adochiei, Daniel Iulian Voiculescu - *Computing the Caloric Expenditure During Kick Scooter Activity*, International Conference on e-Health and Bioengineering (EHB), 2020, WOS:000646194100128

Vis9 - Enescu D., Russo A., Porumb R., **Seritan G.** - *Dynamic Thermal Rating of Electric Cables: A Conceptual Overview*, 2020 55th International Universities Power Engineering Conference (UPEC), pp1-6, WOS:000627771000051

Vis10 - **G. C. Seritan**; F.-C. Adochiei ; B. A. Enache; G. Petroiu-Andruseac; C.D. Enache; D. A. Dascultu; C. A. Becheanu ; A. Ulmeanu - *Guidelines for Small Size Samples Biostatistics in Current Medical Practice*, 2019 E-Health and Bioengineering Conference (EHB), DOI: 10.1109/EHB47216.2019.8970086, WOS000558648300215

Vis11 - F.C. Argatu; F.C. Adochiei ; I.R. Adochiei; R. Ciucu; V. Vasiliki; **G. Seritan** - *A Scalable Real-Time Biomonitoring Platform*, 2019 E-Health and Bioengineering Conference (EHB), DOI: 10.1109/EHB47216.2019.8970064, WOS:000558648300193

Vis12 - F.-C. Adochiei ; R. Ciucu ; I. R Adochiei; F. C. Argatu; B. Enache; C. Miron; **G. Seritan** - *Brain Mapping using a Blockchain Approach*, 2019 E-Health and Bioengineering Conference (EHB), DOI: 10.1109/EHB47216.2019.8970089, WOS:0005586483000217

Vis13 - **G. Seritan** ; M. Bujanovschi; F.-C. Adochiei; D. Voiculescu; F. C. Argatu; S. D. Grigorescu - *Alert and Surveillance System for Newborns*, 2019 E-Health and Bioengineering Conference (EHB), DOI: 10.1109/EHB47216.2019.8969987, WOS:000558648300119

Vis14 - **George-Calin Seritan**; Sorin-Dan Grigorescu; Bogdan-Adrian Enache; Florin Ciprian Argatu; Felix Constantin Adochiei; Teodor Icleanu - *Performance Evaluation of a*

Partially Shaded PV cell with Different Bus Bars Configurations, 54th International Universities Power Engineering Conference (UPEC), 2019, INSPEC Accession Number: 19135374, DOI: 10.1109/UPEC.2019.8893437, WOS:000619338200001

Vis15 - Seritan G., Porumb R., Grigorescu S., Pagano M. - *Statistical analysis on wind variability impact on environment*, 8th International Conference on Modern Power Systems (MPS), 2019, WOS:000612401900007

Vis16 - Enache B., Grigorescu SD, **Seritan GC**, Argatu F., Adochiei F., Constantinescu M. - *Modelling the Discharge of a Lithium Iron Phosphate Battery at Low Temperatures*, 2019 11th International Symposium on Advanced Topics in Electrical Engineering (ATEE), WOS:000475904500058

Vis17 - Adochiei F., Ciucu R., Adochiei IR, Grigorescu SD, **Seritan GC**, Casian M. - *A WEB Platform for Rendering and Viewing MRI Volumes using Real-Time Raytracing Principles*, 2019 11th International Symposium on Advanced Topics in Electrical Engineering (ATEE), WOS:000475904500120

Vis18 - Adochiei IR, Adochiei F., Cepisca C., **Seritan G.**, Enache B., Argatu F., Ciucu R. - *Complex Embedded System for Stress Quantification*, 2019 11th International Symposium on Advanced Topics in Electrical Engineering (ATEE), WOS:000475904500049

Vis19 - SD Grigorescu, FC Argatu, SV Paturca, C Cepisca, **GC Seritan**, FC Adochiei, B Enache - *Robotic Platform with Medical Applications in the Smart City Environment*, 2019 11th International Symposium on Advanced Topics in Electrical Engineering (ATEE), WOS:000475904500148

Vis20 - Ramona, V. A. T. U., CEAKI, O., PORUMB, R., & SERITAN, G.. *Storage optimization: Benefits brought by storage itself, with an energy price minimization*. In 2018 53rd International Universities Power Engineering Conference (UPEC), 2018 (pp. 1-6). IEEE. WOS:000468972100167

Vis21 - Marinescu, N., Ghiculescu, D., Ganatsios, S., & **Seritan, G.**, *Experiments of ultrasonically aided micro-EDM on Ti with nanostructured superficial TiO₂ layers*. In MATEC Web of Conferences (Vol. 178, p. 03010), 2018, EDP Sciences. WOS:000570197900039

Vis22 - Stanescu ID, Enache BA, **Seritan GC**, Grigorescu SD, Argatu FC, Adochiei FC - *Automatic control system for stage lights*, 2018 International Symposium on Fundamentals of Electrical Engineering (ISFEE), WOS:000480396400004

Vis23 - Seritan G., Triștiu I., Fierăscu G., Vatu R - *Assessment for Efficient Operation of Smart Grids Using Advanced Technologies*, 2018 International Conference and Exposition on Electrical And Power Engineering (EPE), DOI: 10.1109/ICEPE.2018.8559609, WOS:000458752200176

Vis24 - Seritan, G.C., Enache, B.A., Argatu, F.C., Adochiei, F.C., Toader, S. - *Low cost platform for monitoring honey production and bees health*, 2018 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2018 - THETA 21st Edition, Proceedings, 3 July 2018, Pages 1-4, 21st IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2018; Cluj-Napoca; Romania; 24 May 2018 through 26 May 2018; Category number CFP18AQT-PRT; Code 137740, ISBN: 978-153862204-9, DOI: 10.1109/AQTR.2018.8402704, WOS:000450065900007

Vis25 - Ceaki, O., **Seritan, G.**, Vatu, R., & Mancasi, M., *Analysis of power quality improvement in smart grids*. In 2017 10th international symposium on advanced topics in electrical engineering (ATEE), 2017, (pp. 797-801), IEEE. WOS:000403399400155

Vatu, R., **Seritan, G.**, Ceaki, O., & Mancasi, M. (2017, March). *Microgrids operation improvement using storage technologies*. In 2017 10th International Symposium on Advanced Topics in Electrical Engineering (ATEE) (pp. 791-796). IEEE. WOS:000403399400154

- Vis26** - Grigorescu, S. D., Cepișcă, C., Pațurcă, S. V., Ghita, O. M., Seritan, G., Argatu, F., ... & Banica, C., *Use of pedagogical agents to build multiple choice equations for an electric workshop based on LabVIEW*. In 2017 10th International Symposium on Advanced Topics in Electrical Engineering (ATEE), 2017, (pp. 919-924). IEEE. WOS:000403399400178
- Ciucu, R. I., Dragomir, D. A., Adochiei, I. R., **Seritan, G. C.**, Cepișcă, C., & Adochiei, F. C., *A non-contact heart-rate monitoring system for long-term assessments of HRV*. In 2017 10th International Symposium on Advanced Topics in Electrical Engineering (ATEE), 2017, (pp. 5-8). IEEE. WOS:000403399400002
- Vis27 - Seritan G.**, Triștiu I., Ceaki O., Boboc T. - *Power quality assessment for microgrid scenarios*, Electrical and Power Engineering (EPE), 2016 International Conference and Exposition, 20-22 oct 2016, doi: 10.1109/ICEPE.2016.7781434, pp. 723-727, WOS:000390706300144
- Vis28** - Ghiculescu D., Marinescu N., Ganatsios S., Popa L., **Seritan G.** - *The Influence of Machined Surface Microgeometry on Mechanical Hydraulic Removal Mechanism at Ultrasonically Aided EDM Finishing*, pp.1-8, 20th Innovative Manufacturing Engineering and Energy Conference IManEE 2016, IOP Conf. Series: Materials Science and Engineering 161 (2016) 012013 doi:10.1088/1757-899X/161/1/012013, ISSN: 1757-8981, Accession Number: WOS:000391131300013
- Vis29** - Vatu, R., Ceaki, O., Mancasi, M., Porumb, R., & **Seritan, G.**, *Analysis of ancillary services within smart grid framework*. In 2015 Modern Electric Power Systems (MEPS) (pp. 1-5). IEEE. WOS:000380485200012
- Vis30** - Vatu, R., Ceaki, O., Mancasi, M., Porumb, R., & **Seritan, G.**, *Power quality issues produced by embedded storage technologies in smart grid environment*. In 2015 50th International Universities Power Engineering Conference (UPEC) (pp. 1-5). IEEE. WOS:000377369500038
- Vis31** - Ceaki, O., Vatu, R., Mancasi, M., Porumb, R., & **Seritan, G.**, *Analysis of electromagnetic disturbances with or without SVC device*. In 2015 50th International Universities Power Engineering Conference (UPEC), (pp. 1-5). IEEE. WOS:000377369500058
- Vis32** - Mancasi, M., Vatu, R., Ceaki, O., Porumb, R., & **Seritan, G.**, *Evolution of smart buildings. A Romanian case*. In 2015 50th International Universities Power Engineering Conference (UPEC) (pp. 1-4). IEEE. WOS:000377369500043
- Vis33** - Ciucu, R. I., **Seritan, G. C.**, Dragomir, D. A., Cepișcă, C., & Adochiei, F. C., *ECG generation methods for testing and maintenance of cardiac monitors*. In 2015 E-Health and Bioengineering Conference (EHB) (pp. 1-4). IEEE. WOS:000380397900166
- Vis34** - Cepisca, C., **Seritan, G. C.**, Ancuta, F., Paraschiv A.M. - *Optimization and Monitoring Energy Consumption from Small Industrial Consumers*, Conference: 7th International Conference on Electronics, Computers and Artificial Intelligence (ECAI) Location: Bucharest, ROMANIA, Date: JUN 25-27, 2015, Sponsor(s): IEEE Romania section; IEEE Industry Applications Society; Univ Pitesti; Univ Europei Sud-Est Lumina; Ministerul Educației Cercetării Științifice, Proceedings of the 2015 7TH International Conference on Electronics, Computers and Artificial Intelligence (ECAI) Book Series: International Conference on Electronics Computers and Artificial Intelligence Pages: S15-S18 Published: 2015, DOI: 10.1109/ECAI.2015.7301154, IDS Number: BE3MO, ISBN:978-1-4673-6647-2, ISSN: 2378-7147, Accession Number: WOS:000370971100019
- Vis35** - Cepisca, C.; Adochiei, F. C.; Potlog, S., Banica C., **Seritan G.** - *Platform for Bio-Monitoring of Vital Parameters in Critical Infrastructures Operation*, Conference: 7th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Location: Bucharest, Romania, Date: JUN 25-27, 2015, Sponsor(s): IEEE Romania section; IEEE Industry Applications Society; Univ Pitesti; Univ Europei Sud-Est Lumina; Ministerul

Educației Cercetării Științifice, Proceedings of the 2015 7th International Conference on Electronics, Computers and Artificial Intelligence (ECAI) Book Series: International Conference on Electronics Computers and Artificial Intelligence, Pages: E7-E10, Published: 2015, DOI: 10.1109/ECAI.2015.7301144, IDS Number: BE3MO, ISBN: 978-1-4673-6647-2, ISSN: 2378-7147, Accession Number: WOS:000370971100009

Vis36 - Ceaki O., Vatu R., Mancasi M., Porumb R., **Seritan G.** - *Analysis of Electromagnetic Disturbances for Grid-Connected PV* - MEPS 2015, 5th International Conference on Modern Electric Power Systems, 6-9 July 2015, Poland, Wroclaw, pp.1-5, DOI: 10.1109/MEPS.2015.7477165, ISBN: 978-1-5090-3101-6/15, Accession Number: WOS:000380485200013

Vis37 - Porumb, R., Toader, C., Golovanov, N., Leonida, T., **Seritan, G.**, *Energy Efficiency Rating of Transformers under Unbalanced Linear Regime, Optimization of Electrical & Electronic Equipment* – OPTIM 2015, Side, Turkey 2-4 September 2015, pp. 538-544, DOI: 10.1109/OPTIM.2015.7427049, INSPEC: 15838080, Accession Number: ISBN: 978-1-4673-7239-8, WOS:000382957000083

Vis38 - R. Vatu, O. Ceaki, N. Golovanov, R. Porumb, **G. Seritan** - *Analysis of storage technologies with smart grid framework*, UPEC 2014, 49th International Universities' Power Engineering Conference, 2-5 Septembrie, Cluj-Napoca, Romania, ISBN 978-1-4799-6556-4, pp. 1-5, DOI: 10.1109/UPEC.2014.6934823, INSPEC Accession Number: 14697808; Accession Number: WOS:000364087800212

Vis39 - O. Ceaki, R. Vatu, N. Golovanov, R. Porumb, **G. Seritan** - *Analysis of the Grid-Connected PV Plants Behavior with FACTS Influence*, UPEC 2014, 49th International Universities' Power Engineering Conference, 2-5 Septembrie, Cluj-Napoca, Romania, ISBN 978-1-4799-6556-4, pp. 1 – 6, doi: 10.1109/UPEC.2014.6934822, INSPEC Accession Number: 14697725, Accession Number: WOS:000364087800211

Vis40 - Vatu, R., Ceaki, O., Golovanov, N., Porumb, R., & **Seritan, G.**, *Competitive electricity market schemes within smart grids framework*. In 2014 International Symposium on Fundamentals of Electrical Engineering (ISFEE) (pp. 1-5). IEEE. WOS:00038057050500070

Vis41 - Ceaki, O., Vatu, R., Golovanov, N., Porumb, R., & **Seritan, G.**, *Analysis of SVC influence on the power quality for grid-connected PV plants*. In 2014 International Symposium on Fundamentals of Electrical Engineering (ISFEE) (pp. 1-5). IEEE. WOS:00038057050500072

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Rio12 - Marin F. O., Ghita M. R., Andrei H., Ivanovici T., **Seritan G.**, Predusca G.- *Modeling residential consumers and methods to reduce power losses and electric energy*, In: The Scientific Bulletin of Electrical Engineering Faculty, Valahia University, 2013, year 13, no.3(23), pp.32-39 ISSN 1843-6188, Indexata Index Copernicus Master List Journal (with IC value 3,61 for the year 2009, IC value 4,41 for the year 2010, IC value 4,91 for the year 2011, IC value 5,19 for year 2012)

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Vi13 - Oana-Isabela Știrbu, Serban Teodor Nicolescu, **George Calin Seritan**, Ioana Raluca Adochiei, Gladiola Petroiu, Florin Argatu, Felix-Constantin Adochiei - *Radiological Diagnosis of SARS-CoV-2 Infected Patients by Automated Classification of Chest Radiographs using DTL* - E-Health and Bioengineering Conference (EHB), 2022. Indexat IEEE: <https://0d106gd5q-y-https-ieeeexplore-ieee-org.z-e-nformation.ro/document/9991502>

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Vi23 - Scutaru, M. L., Vlase, S., Teodorescu-Draghicescu, H., & **Seritan, G.**, Influence of Materials on the Thermic Isolation of a Construction Site. 2008. Google scholar: https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=INFLUENCE+OF+MATERIALS+ON+THE+THERMIC+ISOLATION+OF+A+CONSTRUCTION+SITE&btnG=#d=gs_cit&t=1708620658494&u=%2Fscholar%3Fq%3Dinfo%3AD81zzO5T_NEJ%3Ascholar.google.com%2F%26output%3Dcite%26scirp%3D0%26hl%3Den

V. BREVETE DE INVENȚIE / INOVAȚII SAU CREAȚII ARTISTICE (B,A)

B1 - **Seritan G.**, Cepisca C., Grigorescu S.D., Argatu F., Banica C., Adochiei F., Enache B., Porumb R. - Sistem de biomonitorizare destinate persoanelor supuse testelor bazate pe realitate virtuala, Buletinul Oficial de Proprietate Industrială, secțiunea brevet de invenție, nr.11/2020, ISSN 2668-9006, Biomonitoring system for persons subjected to tests based on virtual reality in virtual cube with immersion, transmits taken values to acquisition system connected to processing block which transmits taken values to local computer - RO134535-A2, Derwent : 2020-C1185Q

B2 - **Seritan G.**, Cepisca C., Ancuta F., Paraschiv A., Staicu C., Argatu F., Lungu C., Humelnicu C., Orlandea M. - *Intelligent modular system for optimizing energy consumption and rendering it efficient, for small- and medium-sized enterprises; Sistem modular inteligent pentru optimizarea și eficientizarea consumurilor energetice la agenții economici mici și mijlocii*, Buletinul Oficial de Proprietate Industrială, secțiunea brevet de invenție, nr.5/2016, RO131156-A0, AUDIT IT & C SRL.; Derwent Primary Accession Number: 2016-32057D

VI. CONTRACTE ȘI RAPOARTE ȘTIINȚIFICE (P,F)

Pi1 - Director/responsabil: Digital Twin for Europe (TwinEU), H2020-CL5-2023-D3-03, Grant agreement ID: 101136119, 01/01/2024-01/01/2026

Pi2 - Director/responsabil: ELECTRON (rEsilient and seLf-healed EleCTRical pOwer Nanogrid), H2020-SU-DS-2020, Grant agreement ID: 101021936, 2021-2024

Pi3 - Director/responsabil: TSO-DSO-Consumer INTERFACE aRchitecture to provide innovative grid services for an efficient power system, ID 824330, 2019-2023

Pi4 - Director/responsabil: FACilitating Regional CROSS-border Electricity Transmission through Innovation - FARCROSS-864274, 2019-2023

Pi5 - Director/responsabil: FLEXITRANSTORE (An Integrated Platform for Increased FLEXIbility in smart TRANSMission grids with STORAge Entities and large penetration of Renewable Energy Sources), H2020, LCE-04-2017, no 774407, 2017-2021, <http://www.flexitranstore.eu/>

Pi6 - Membru în echipă: Smart and Sustainable Insular Electricity Grids Under Large-Scale Renewable Integration, SINGULAR, FP7-ENERGY-2012-1-2STAGE, 2012-2015;

Pi7 - Membru în echipă: FP7-SME-2012 – Innovative, Highly Efficient Road Surface Measurement and Control System – HERMES, Grant agreement number: 315029, 2012-2014.

Pi8 - Membru în echipă: South-East European TSO Challenges, FP7-ENERGY-2008-TREN-1, 2010-2012;

Pn1 - Director/responsabil: CTR. 342/2014 „Platformă virtuală de e-learning bazată pe aplicații 3D utilizabilă în protetică dentară“, (Acronim: VIRPRO) – Proiect: PN-II-PT-PCCA- 2013-4-0644 , oct 2014 – 30 sept 2017 – responsabil proiect;

Pn2 - Director/responsabil: Contract nr, PO19004 / 1780/09.04.2014 POSCCE-Axa prioritară 2 „Competitivitate prin CDI“/Operațiunea 2.3.3 „Promovarea inovării în cadrul întreprinderilor“ – cod SMIS 50239 cu titlul „Platformă de biomonitorizare a parametrilor vitali în operarea infrastructurilor critice“, 2014 – 2016 – director proiect;

Pn3 - Director/responsabil: Contract nr. 1730/27.09.2013 POSCCE – Axa prioritară 2 „Competitivitate prin CDI“ /Operațiunea 2.3.3 „Promovarea inovării în cadrul întreprinderilor“ – cod SMIS 47525 cu titlul „Realizarea unui nou sistem modular inteligent pentru optimizarea și eficientizarea consumurilor energetice la agenții economici mici și mijlocii, ENOPT“, 2013 – 2015 – director proiect;

Pn4 - Director/responsabil: Contract nr.516/31.07.2013, ID 1529/, – POSCCE-Axa prioritară 2 „Competitivitate prin CDI“/Operațiunea 2.3.3 „Promovarea inovării în cadrul întreprinderilor“ – cod SMIS 45563, cu titlul „Construirea de parcuri eoliene la cheie cu integrarea fabricării stâlpilor de susținere și asamblarea turbinelor eoliene“, 2013 – 2015 – director proiect;

Pn5 - Director/responsabil: „Uas innovative survey and monitoring model for colonially breeding waterbird species from Danube Delta Biosphere Reserve – Uas BIRD, Parteneriate, contract nr. 70/2012, 2012-2013 – responsabil proiect;

Pn6 - Director/responsabil: Promovarea participării cercetării românești la Programul

Cadru 7 și dezvoltarea parteneriatului s/t în domeniul tehnologiilor de mediu pentru alimentație și sănătate (tehnologie), Cercetare de excelență. MODULUL 3, contract nr. 161/2006-2008 – director proiect;

Pn7 - Director/responsabil: C 2107/ 01.10.2004 – Sistem integrat de creștere a calității vieții prin monitorizare și analiză la distanță a parametrilor ECG în vederea alinării la normele UE, Subprogramul: 5 RELANSIN – CALITATEA VIEȚII – responsabil proiect

Pn8 - Director/responsabil: Corecția automată a erorilor de măsurare a energiei electrice pentru regimuri permanente și tranzitorii ale rețelelor electrice, Agenția Națională pentru Știință, Tehnologie și Inovare, ANSTI, 1999-2000, Contract nr. 5076/1999, act adițional 6028/2000, tema A41 – director de grant;

Pn9 - Membru în echipă: Semafor inteligent cu tehnologie LED pentru creșterea siguranței transportului feroviar PTE, 2016 – 2018

Pn10 - Membru în echipă: Analiza și testarea distribuției câmpului electric la izolatoarele din materiale compozite pentru creșterea siguranței în funcționare, Bridge Grant, 2016 – 2018;

Pn11 - Membru în echipă: Sistem de monitorizare, inspecție avansată aeriană și terestră a infrastructurilor critice, POC – Axa 1, Ctr. 74/08.09.2016, cod MYSMIS 104350, P_39_408

Pn12 - Membru în echipă: CTR.33/2014 „Sistem integrat de monitorizare și control pentru estimarea completă în timp real a stării funcționale a ansamblului rețelelor electrice– (Acronim: SIMCEC) – Proiect: PN-II-PT-PCCA-2013-4-025, oct 2014 – 30 sept 2017;

Pn13 - Membru în echipă: Integrare pe scară largă a resurselor regenerabile electrice inteligente și durabile de tip insular – 241EU/2013, Capacitati, Modulul III, 2013 – 2015;

Pn14 - Membru în echipă: PNCDI PARTENERIATE – New methods and investigations protocols for the early diagnosis, efficient screening, prognostic and therapy of non-melanoma skin cancers based on existing and novel micro & nano optical tools – NANOLASCAN, Nr. contract: 10/2012, 2012 – 2015;

Pn15 - Membru în echipă: PNCDI PARTENERIATE – Sistem de imagistică optică multimodală pentru detecția intraoperativă a marginilor pozitive a tumorilor – MOIST, Contract nr: 184/2012, 2012 – 2015;

Pn16 - Membru în echipă: „Contor inteligent bazat pe evaluarea semnăturii energetice“ SigMED nr. 30/2012 /PCCA Tip 2, 2012 – 2015;

Pn17 - Membru în echipă: Cercetări asupra unui nou mecanism energetic în zona sud-europeană, Contract Capacități nr.75EU/11.06.2010, 2010 – 2012;

Pn18 - Membru în echipă: „Sistem video automatizat cu grad ridicat de interschimbabilitate pentru etalonare metrologică“ VIDEOCAL nr. 72-173/ PARTENERIATE 2008 – 2011;

Pn19 - Membru în echipă: PNCDI II Parteneriate – Platforma e-health pentru monitorizare, localizare și procesare în timp real, destinată pacienților cu risc cardiovascular – ERISC, Numar proiect: 12123/2008, 2008 – 2011;

Pn20 - Membru în echipă: PNCDI II Inovare – Sistem laser adaptat pentru biomicroscop oftalmic – OFTALAS, Contract nr. 180/3/26.08.2008, 2008 – 2010;

Pn21 - Membru în echipă: PNCDI II Inovare – Sistem mobil de cartare precisă a arterelor rutiere și a obiectivelor adiacente din teren – MMS, Contract nr. 184/26.08.2008, 2008-

2010;

Pn22 - Membru în echipă: PNCDI II Inovare – Sistem informatizat de alimentare și protecție integrată, destinat instalațiilor de automatizare și teleconducere din stațiile de transformare și distribuție a energiei electrice – SIASTE, Contract 179/2008, 2008 – 2010;

Pn23 - Membru în echipă: „Metode și tehnici pentru optimizarea funcționării eficiente energetic a consumatorilor industriali în scopul reducerii pierderilor de energie în rețeaua electrică de alimentare – RELES“, PARTENERIATE, nr./2007 – 2010;

Pn24 - Membru în echipă: „Modernizarea siguranțelor fuzibile pe baza optimizării regimurilor termice și electrice în funcționarea acestora – MS-FORTE“, AMCSIT – INOVARE, nr.110/2007; 2007 – 2009;

Pn25 - Membru în echipă: „Sistem integrat de conducere în timp real a producerii eficiente a energiei electrice și termice în centrale cogenerative pe gaz – ISCET“, PARTENERIATE, nr./2007 – 2009;

Pn26 - Membru în echipă: „Cercetări de metrologie optică activ-adaptivă 3D pentru nanoștiințe și tehnologii. ME de instalație adaptivă de holografie digitală – MAST“, PARTENERIATE, nr./2007 – 2009;

Pn27 - Membru în echipă: „Echipament 90kVA de acționare a motoarelor electrice de 400 Hz ale avionului – AVION“, AMCSIT – INOVARE, Nr.129/2007; 2007–2009;

Pn28 - Membru în echipă: „Inovare în servicii de internet și multimedia prin utilizarea convergentă a soluțiilor de streaming inteligent și social networking – SIMT“, AMCSIT – INOVARE, nr.111/2007 – 2009;

Pn29 - Membru în echipă: „Echipamente inteligente pentru controlul sistemelor de iluminat stradal (INTIL), Contract PN2 INOVARE nr.56/2007, 2007 – 2009;

Pn30 - Membru în echipă: Proiectarea inteligentă de componente integrate flexibile fotovoltaice cu randament de conversie, fotoelectrică maximizat (IFIPVCELLS), Contract PN2 PARTENERIATE nr.21-021/2007 2007 – 2009;

Pn31 - Membru în echipă: „Metoda și echipament pentru testarea profilelor longitudinale ale arterelor rutiere în regim dinamic – PROLOG“, AMCSIT – INOVARE, Nr.123/2007 – 2009;

Pn32 - Membru în echipă: „Creșterea eficienței timp, cost și ecologizare în serviciile tehnice ale aeronavelor; aprofundarea și demonstrarea rezultatelor prin realizarea de noi surse de putere statice, pentru pornire și sursa programabilă, cu pas 1 Hz, de distorsiuni 0,3% pentru verificarea aparaturii de bord la 400 Hz“, Contract CEEEX Modul 1 nr.136 2006-2007;

Pn33 - Membru în echipă: Dezvoltarea și acreditarea unui laborator de încercări privind calitatea energiei electrice, 2006- 2007, Contract CEEX Modul 4 nr.1114/2006;

Pn34 - Membru în echipă: Cercetări privind nanometrologia microsistemelor, 2005 – 2007 , Contract CEEX n.3/2005;

Pn35 - Membru în echipă: „Iluminat public cu lămpi cu vapori de sodiu – echipamente cu nivel redus al perturbațiilor electromagnetice de bandă largă“, 2003 – 2005, Contract de cercetare RELANSIN, nr. 1746/01.08.2003;

Pn36 - Membru în echipă: „Echipament complex de achiziție și prelucrare a datelor pentru măsurarea automată a gradului de expandare a țevilor sudate longitudinal“, 2003 – 2005,

Contract de cercetare RELANSIN nr. 1748/01.08.2003;

Pn37 - Membru în echipă: „Echipament inteligent pentru caracterizarea comportării în regim nesinusoidal a contoarelor digitale pentru energie electrică“, 2000 – 2002, Contract nr. 504/2000, Tema B98, UPB – ANSTI – Orizont 2000;

Pn38 - Membru în echipă: Contract Phare Ro9807 – Centru de pregătire complementară pentru absolvenții de învățământ tehnic, 2000;