

# List of works

## of the candidate Sl.dr.ing. Lorant Andras SZOLGA

### A. The most relevant papers

1. Terenti, Natalia; Giurgi, Gavril-Ionel; Anghel, Catalin; Bogdan, Alexandra; Pop, Alexandra; Stroia, Ioan; Terec, Anamaria; **Szolga, Lorant**; Grosu, Ion; Roncali, Jean:  
*"Structure-properties of small donor-acceptor molecules for homojunction single-material organic solar cells"*,  
2022 in Journal of Materials Chemistry C  
DOI: 10.1039/D2TC00430E  
**WOS:000770083300001**  
Revista IF 7.393
2. Andreea Petrolela Diac, **Lorant Szolga**, Clément Cabanetos, Alexandra Bogdan, Anamaria Terec, Ion Grosu, Jean Roncali  
*"C-60-small arylamine push-pull dyads for single-material organic solar cells"*,  
2019, DYES AND PIGMENTS, Vol.171, AN 107748,  
DOI: 10.1016/j.dyepig.2019.107748,  
**WOS:000484870700074**  
Revista IF 4.613
3. Alexandra Bogdan, **Lorant Szolga**, Gavril-Ionel Giurgi, Andreea Petronela Crisan, Diana Bogdan, Sarinya Hadsadee, Siriporn Jungsuttiwong, Riccardo Po, Ion Grosu, Jean Roncali  
*"Structure-properties relationships in triarylamine-based push-pull systems-C60 dyads as active material for single-material organic solar cells"*,  
2021, DYES AND PIGMENTS, Vol.184, AN 108845,  
DOI: 10.1016/j.dyepig.2020.108845,  
**WOS:000580897700089**  
Revista IF 4.613
4. Nan, M.I., Lakatos,E., Giurgi,G.-I., **Szolga, L.**, Po, R., Terec, A., Jungsuttiwong,S., Grosu, I.,Roncali, J  
*"Mono- and di-substituted pyrene-based donor-pi-acceptor systems with phenyl and thienyl pi-conjugating bridges"*,  
2020, DYES AND PIGMENTS, Vol.181, AN 108527,  
DOI: 10.1016/j.dyepig.2020.108527,  
**WOS:000549169800061**  
Revista IF 4.613

5. Terenti, Natalia; Giurgi, Gavril-Ionel; **Szolga, Lorant**; Stroia, Ioan; Terec, Anamaria; Grosu, Ion; Crisan, Andreea Petronela  
*"Effect of the Terminal Acceptor Unit on the Performance of Non-Fullerene Indacenodithiophene Acceptors in Organic Solar Cells"*,  
Feb 2022 in Molecules  
DOI: 10.3390/MOLECULES27041229  
**WOS:000762478700001**  
Revista IF 4.411
  
6. **Szolga, Lorant Andras**; Bozga, Denisa Alice; Florea, Camelia  
*"End-User Skin Analysis (Moles) through Image Acquisition and Processing System"*,  
Feb 2022 in Sensors  
DOI: 10.3390/S22031123  
**WOS:000758936300001**  
Revista IF 3.576
  
7. **Szolga, L.A.**, Mudure, F.  
*"Blood (RBC/HGB) analysis using colorimetry"*,  
2020 INTERNATIONAL CONFERENCE ON E-HEALTH AND BIOENGINEERING (EHB),  
DOI: 10.1109/EHB50910.2020.9280195,  
**WOS:000646194100069**  
Proceeding ISI
  
8. C. Chirila, **L.A. Szolga**  
*"Development of a Thermal Camera Using a Low Noise High Speed Far Infrared Camera"*,  
2019 IEEE 25TH INTERNATIONAL SYMPOSIUM FOR DESIGN AND TECHNOLOGY IN ELECTRONIC PACKAGING (SIITME 2019), pp. 183-193,  
DOI: 10.1109/SIITME47687.2019.8990841,  
**WOS:000564733700037**  
Proceeding ISI
  
9. **Szolga, L.A.**, Boca, M.  
*"Smart Illumination for Large Area Buildings Using RF Communication"*,  
2020 14TH INTERNATIONAL SYMPOSIUM ON ELECTRONICS AND TELECOMMUNICATIONS (ISETC),  
pp. 395-398,  
DOI: 10.1109/ISETC50328.2020.9301143,  
**WOS:000612681000095**  
Proceeding ISI

- 10. Lorant Andras Szolga; Alexandru Nicolae Strugaru**  
*"Emergency Siren Detection System for Deaf People",*  
Nov 2021 in IEEE International Conference on e-Health and Bioengineering (EHB)  
DOI: 10.1109/EHB52898.2021.9657612  
**WOS:000802227900073**  
Proceeding ISI

## B. PhD thesis

- 1. Lorant Andras SZOLGA**  
*"Contribution to Hardware Implementation of SVM Classifiers",*  
elaborated in Romanian under the guidance of **Prof.dr.ing. Lelia FEȘTILĂ**

## C. Patents and other industrial property titles

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## D. Books and books chapters

- 1.** Festila Lelia, Gordan Mihaela, Cirlugea Mihela , Oltean Gabriel., Hintea Sorin., Csipkes Gabor, Rus Cristian., Groza Robert, **Szolga Lorant**  
*"Circuite Analogice pentru Clasificatoare Masini cu Vectori Suport",*  
ISBN 978-973-133-107-2  
2007, Casa Cartii de Stiinta Cluj-Napoca
- 2. Lorant SZOLGA,** Ramona Gălătuș, Emil Voiculescu  
*"Optoelectronică – Îndrumător de laborator",*  
ISBN 978-973-662-858-0  
2013, U.T.Press Cluj-Napoca
- 3. Lorant SZOLGA,** Ramona Gălătuș, Emil Voiculescu  
*"Optoelectronics - Laboratory Guide",*  
ISBN 978-973-662-859-7  
2013, U.T.Press Cluj-Napoca
- 4. Szolga Lorant Andras,** Strugaru Alexandru  
*"Emergency Siren Detection System for Hearing Impaired People",*  
ISBN 978-606-062-305-2  
2021, Napoca Star
- 5. Szolga Lorant Andras,** Chirila Cezar  
*"Development of a Thermal Imaging Camera Using an Infrared Thermopile Array Sensor",*  
ISBN 978-606-062-381-6  
2021, Napoca Star

**6. Szolga Lorant Andras**

*"Optoelectronics : basic optics, devices, and circuits"*,  
ISBN 978-606-062-462-2  
2022, Napoca Star

**E. Articles/studies in extenso, published in journals from the main international scientific flow**

**1. L. Festila, L. Szolga, S. Hintea, M. Cirlugea**

*"A Unitary View Toward Analog Weighting/Amplifying F-F-1 Cells"*,  
ELEKTRONIKA IR ELEKTROTEHNIKA, No. 10, 2010, pp. 21-26,  
**WOS:000285905600005**  
ISI Journal paper, Q4, IF 1.128

**2. Festila L., Szolga L.A., Cirlugea M., Groza R.**

*"Analog multiplying/weighting VLSI cells for SVM classifiers"*,  
KKNOWLEDGE-BASED INTELLIGENT INFORMATION AND ENGINEERING SYSTEMS, PT 3,  
PROCEEDINGS, LECTURE NOTES IN ARTIFICIAL INTELLIGENCE, 12th International Conference on  
Knowledge-Based Intelligent Information and Engineering Systems, Vol. 5179, 2008, pp. 360-367,  
DOI: 10.1007/978-3-540-85567-5\_45,  
**WOS:000259398600045**  
ISI Journal paper, Q4, IF 0.302

**3. Festilă L., Szolga L.A., Cîrlugea M., Hintea S.**

*"A Reconfigurable Voltage Reference without Resistors"*,  
KNOWLEDGE-BASED AND INTELLIGENT INFORMATION AND ENGINEERING SYSTEMS, PT IV, Vol.  
6279, 2010, pp. 613-622,  
DOI: 10.1007/978-3-642-15384-6\_65,  
**WOS:000289445700065**  
ISI Journal paper, Q4, IF 0.302

**4. Andreea Petrolela Diac, Lorant Szolga, Clément Cabanetos, Alexandra Bogdan, Anamaria Terec, Ion Grosu, Jean Roncali**

*"C-60-small arylamine push-pull dyads for single-material organic solar cells"*,  
2019, DYES AND PIGMENTS, Vol.171, AN 107748,  
DOI: 10.1016/j.dyepig.2019.107748,  
**WOS:000484870700074**  
ISI Journal paper, Q1, IF 4.613

**5. Giurgi, G.-I., Szolga, L., Kovacs, I., Bogdan, E., Hădade, N.D., Terec, A., Grosu, I., Roncali, J**

*"Inverted versus direct structure bulk heterojunction organic solar cells involving a triphenylamine-based small molecular donor"*,  
2020, STUDIA UNIVERSITATIS BABES-BOLYAI CHEMIA, Vol. 66, Issue 2, pp. 95-106,  
DOI: 10.24193/subbchem.2020.2.08,  
**WOS:000560027700008**  
ISI Journal paper, Q4, IF 0.494

6. Nan, M.I., Lakatos, E., Giurgi, G.-I., **Szolga, L.**, Po, R., Terec, A., Jungsuttiwong, S., Grosu, I., Roncali, J  
*"Mono- and di-substituted pyrene-based donor-pi-acceptor systems with phenyl and thienyl pi-conjugating bridges"*,  
2020, DYES AND PIGMENTS, Vol.181, AN 108527,  
DOI: 10.1016/j.dyepig.2020.108527,  
**WOS:000549169800061**  
ISI Journal paper, Q1, IF 4.613
7. Alexandra Bogdan, **Lorant Szolga**, Gavril-Ionel Giurgi, Andreea Petronela Crisan, Diana Bogdan, Sarinya Hadsadee, Siriporn Jungsuttiwong, Riccardo Po, Ion Grosu, Jean Roncali  
*"Structure-properties relationships in triarylamine-based push-pull systems-C60 dyads as active material for single-material organic solar cells"*,  
2021, DYES AND PIGMENTS, Vol.184, AN 108845,  
DOI: 10.1016/j.dyepig.2020.108845,  
**WOS:000580897700089**  
ISI Journal paper, Q1, IF 4.613
8. **Szolga, Lorant Andras**; Bozga, Denisa Alice; Florea, Camelia  
*"End-User Skin Analysis (Moles) through Image Acquisition and Processing System"*,  
Feb 2022 in Sensors  
DOI: 10.3390/S22031123  
**WOS:000758936300001**  
ISI Journal paper, Q1, IF 3.576
9. Terenti, Natalia; Giurgi, Gavril-Ionel; **Szolga, Lorant**; Stroia, Ioan; Terec, Anamaria; Grosu, Ion; Crisan, Andreea Petronela  
*"Effect of the Terminal Acceptor Unit on the Performance of Non-Fullerene Indacenodithiophene Acceptors in Organic Solar Cells"*,  
Feb 2022 in Molecules  
DOI: 10.3390/MOLECULES27041229  
**WOS:000762478700001**  
ISI Journal paper, Q2, IF 4.411
10. Covaci, Mihnea Antoniu; **Szolga, Lorant Andras**  
*"Low-Voltage Plasma Generator Based on Standing Wave Voltage Magnification"*,  
Mar 2022 in Sustainability  
DOI: 10.3390/SU14052890  
**WOS:000767839700001**  
ISI Journal paper, Q2, IF 3.251
11. Terenti, Natalia; Giurgi, Gavril-Ionel; Anghel, Catalin; Bogdan, Alexandra; Pop, Alexandra; Stroia, Ioan; Terec, Anamaria; **Szolga, Lorant**; Grosu, Ion; Roncali, Jean  
*"Structure-properties of small donor-acceptor molecules for homojunction single-material organic solar cells"*,  
2022 in Journal of Materials Chemistry C  
DOI: 10.1039/D2TC00430E  
**WOS:000770083300001**  
ISI Journal paper, Q1, IF 7.393

12. Giurgi, Gavril-Ionel; **Szolga, Lorant**; Crisan, Andreea; Grosu, Ion; Roncali, Jean  
*"PHOTOVOLTAIC PERFORMANCES OF TWO TRIARYLAMINE-BASED DONORS IN VARIOUS INVERTED CELL CONFIGURATIONS"*  
Sep 2021 in Studia Universitatis Babes-Bolyai Chemia  
DOI: 10.24193/SUBBCHEM.2021.3.05  
**WOS:000705616200011**  
ISI Journal paper, Q4, IF 0.447

## **F. Extensive publications, published in papers of the main specialized international conferences**

1. Cirlugea M., **Szolga L.**, Festila L.  
*"ABM blocks for precise measurements in DC-DC converters"*,  
IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS (AQTR 2008), THETA 16TH EDITION, VOL I, 2008, pp. 137-141, DOI: 10.1109/AQTR.2008.4588722,  
**WOS:000259079700020**  
ISI indexed Conference paper
2. Festila L., Cirlugea M., **Szolga L.**, Groza R.  
*"Current-mode multiplier models based on FF-1 functions"*,  
MIXDES 2008: PROCEEDINGS OF THE 15TH INTERNATIONAL CONFERENCE ON MIXED DESIGN OF INTEGRATED CIRCUITS AND SYSTEMS, 2008, pp. 401-406,  
**WOS:000259117200069**  
ISI indexed Conference paper
3. Feștilă L., **Szolga L.A.**, Cîrlugea M., Fazakas A.  
*"An analog circuit for computing radial basis kernels"*,  
2006 IEEE-TTTC INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS, VOL 1, PROCEEDINGS, 2006, pp. 275-279,  
**WOS:000241459500050**  
ISI indexed Conference paper
4. **Szolga L.A.**, Galatus R., Oltean G., Ivanciu L.  
*"Intrusion Detection System Based on Plastic Optical Fiber"*,  
2017 2017 IEEE 23RD INTERNATIONAL SYMPOSIUM FOR DESIGN AND TECHNOLOGY IN ELECTRONIC PACKAGING (SIITME), pp.403-408,  
DOI: 10.1109/SIITME.2017.8259935,  
**WOS:000428032300086**  
ISI indexed Conference paper
5. **L.A. Szolga**, R. Sofian  
*"Humidity Sensing System Using Plastic Optical Fiber"*,  
2019 IEEE 25TH INTERNATIONAL SYMPOSIUM FOR DESIGN AND TECHNOLOGY IN ELECTRONIC PACKAGING (SIITME 2019), pp. 172-182,  
DOI: 10.1109/SIITME47687.2019.8990859,  
**WOS:000564733700036**  
ISI indexed Conference paper

6. C. Chirila, **L.A. Szolga**  
*"Development of a Thermal Camera Using a Low Noise High Speed Far Infrared Camera"*,  
2019 IEEE 25TH INTERNATIONAL SYMPOSIUM FOR DESIGN AND TECHNOLOGY IN ELECTRONIC  
PACKAGING (SIITME 2019), pp. 183-193,  
DOI: 10.1109/SIITME47687.2019.8990841,  
**WOS:000564733700037**  
ISI indexed Conference paper
7. **Szolga, L.A.**, Bondric, A.  
*"Smart System for Incubating Eggs"*,  
2020 IEEE 26TH INTERNATIONAL SYMPOSIUM FOR DESIGN AND TECHNOLOGY IN ELECTRONIC  
PACKAGING (SIITME 2020), pp. 260-264,  
DOI: 10.1109/SIITME50350.2020.9292305,  
**WOS:000651085100053**  
ISI indexed Conference paper
8. **Szolga, L.A.**, Groza, R.G.  
*"Phosphor Based White LED Driver by Taking Advantage on the Remanence Effect"*,  
2020 IEEE 26TH INTERNATIONAL SYMPOSIUM FOR DESIGN AND TECHNOLOGY IN ELECTRONIC  
PACKAGING (SIITME 2020), pp. 265-269,  
DOI: 10.1109/SIITME50350.2020.9292284,  
**WOS:000651085100054**  
ISI indexed Conference paper
9. **Szolga, L.A.**, Cilean, T.R.  
*"Nitrates and nitrites detection system in the drinking water using UV absorption"*,  
2020 INTERNATIONAL CONFERENCE ON E-HEALTH AND BIOENGINEERING (EHB),  
DOI: 10.1109/EHB50910.2020.09280233,  
**WOS:000646194100105**  
ISI indexed Conference paper
10. **Szolga, L.A.**, Mudure, F.  
*"Blood (RBC/HGB) analysis using colorimetry"*,  
2020 INTERNATIONAL CONFERENCE ON E-HEALTH AND BIOENGINEERING (EHB),  
DOI: 10.1109/EHB50910.2020.9280195,  
**WOS:000646194100069**  
ISI indexed Conference paper
11. **Szolga, L.A.**, Boca, M.  
*"Smart Illumination for Large Area Buildings Using RF Communication"*,  
2020 14TH INTERNATIONAL SYMPOSIUM ON ELECTRONICS AND TELECOMMUNICATIONS (ISETC),  
pp. 395-398,  
DOI: 10.1109/ISETC50328.2020.9301143,  
**WOS:000612681000095**  
ISI indexed Conference paper

- 12. Szolga, L.A., Pavelea, I.**  
*"Security System with High Autonomy of Operation"*,  
2020 14TH INTERNATIONAL SYMPOSIUM ON ELECTRONICS AND TELECOMMUNICATIONS (ISETC),  
pp. 95-98,  
DOI: 10.1109/ISETC50328.2020.9301044,  
**WOS:000612681000025**  
ISI indexed Conference paper
- 13. Szolga, Lorant Andras;** Cilean, Teodor Radu  
*"Water Sterilization Using Power UV LEDs"*,  
Apr 2021 in International Conference on Electrical and Electronics Engineering,  
DOI: 10.1109/ICEEE52452.2021.9415965  
**WOS:000719372400011**  
ISI indexed Conference paper
- 14. Szolga, Lorant Andras;** Opra, Razvan Teodor  
*"Robotic Arm for Biological Probe Tubes Handling"*,  
2021 in IEEE 23RD INTERNATIONAL SYMPOSIUM FOR DESIGN AND TECHNOLOGY IN ELECTRONIC  
PACKAGING (SIITME)  
DOI: 10.1109/SIITME53254.2021.9663712  
**WOS:000786441900075**  
ISI indexed Conference paper
- 15. Szolga, Lorant Andras;** Heredea, Paul Catalin; Potarniche, Ioana Adriana  
*"Low-Cost Peristaltic Pump for Laboratory Applications"*,  
2021 in IEEE 23RD INTERNATIONAL SYMPOSIUM FOR DESIGN AND TECHNOLOGY IN ELECTRONIC  
PACKAGING (SIITME),  
DOI: 10.1109/SIITME53254.2021.9663609  
**WOS:000786441900076**  
ISI indexed Conference paper
- 16. Lorant Szolga**  
*"On Flight Real Time Image Processing by Drone Equipped with Raspberry Pi4"*,  
2021 in IEEE 23RD INTERNATIONAL SYMPOSIUM FOR DESIGN AND TECHNOLOGY IN ELECTRONIC  
PACKAGING (SIITME)  
DOI: 10.1109/SIITME53254.2021.9663650  
**WOS:000786441900079**  
ISI indexed Conference paper
- 17. Lorant Andras Szolga;** Alexandru Nicolae Strugaru  
*"Emergency Siren Detection System for Deaf People"*,  
Nov 2021 in IEEE International Conference on e-Health and Bioengineering (EHB)  
DOI: 10.1109/EHB52898.2021.9657612  
**WOS:000802227900073**  
ISI indexed Conference paper



- 18. Lorant Andras Szolga; Emese Rebeca Deak**  
*"Home Healthcare Device"*,  
Nov 2021 in IEEE International Conference on e-Health and Bioengineering (EHB)  
DOI: 10.1109/EHB52898.2021.9657554  
**WOS:000802227900019**  
ISI indexed Conference paper
- 19. Szolga Lorant**, Galatus Ramona, Oltean Gabriel  
*"Fluorescent optical fiber sensor for arcing and flame monitoring in electrical distribution boards"*  
(2018) I2MTC 2018 - 2018 IEEE International Instrumentation and Measurement Technology Conference: Discovering New Horizons in Instrumentation and Measurement, Proceedings, pp. 1-5. Cited 4 times.  
DOI: 10.1109/I2MTC.2018.8409836  
**EID: 2-s2.0-85050768608**  
Scopus indexed Conference paper
- 20. Covaci Mihnea, Szolga Lorant**  
*"Implementation of Parallel PSO for Synchronous Constant Current Converter"*  
(2020) CANDO-EPE 2020 - Proceedings, IEEE 3rd International Conference and Workshop in Obuda on Electrical and Power Engineering, art. no. 9337798, pp. 203-208.  
DOI: 10.1109/CANDO-EPE51100.2020.9337798  
**EID: 2-s2.0-85101076542**  
Scopus indexed Conference paper
- 21. Covaci Mihnea, Szolga Lorant**  
*"High Power Laser Tracking and Targeting System"*  
(2020) CANDO-EPE 2020 - Proceedings, IEEE 3rd International Conference and Workshop in Obuda on Electrical and Power Engineering, art. no. 9337755, pp. 197-202.  
DOI: 10.1109/CANDO-EPE51100.2020.9337755  
**EID: 2-s2.0-85101164073**  
Scopus indexed Conference paper
- 22. Szolga Lorant**, Flueras George  
*"Robotic arm controlled by Android app through Bluetooth connection for organic solarcell manipulation"*  
(2021) IOP Conference Series: Materials Science and Engineering, 1032 (1), art. no. 012049, .  
DOI: 10.1088/1757-899X/1032/1/012049  
**EID: 2-s2.0-85101616454**  
Scopus indexed Conference paper
- 23. Szolga Lorant**, Stan Cristian  
*"Plexiglass glove box for organic solar cells"*  
(2021) IOP Conference Series: Materials Science and Engineering, 1032 (1), art. no. 012048, .  
DOI: 10.1088/1757-899X/1032/1/012048  
**EID: 2-s2.0-85101632956**  
Scopus indexed Conference paper

- 24. Lorant Andras Szolga; Zsolt Farnas**  
*"Solar Panel Tracking System Using Optical Fiber"*  
(2020) E3S Web of Conferences, 191, art. no. 01003,  
DOI: 10.1051/e3sconf/202019101003  
**EID: 2-s2.0-85094860535**  
Scopus indexed Conference paper
- 25. Lorant Andras Szolga; Mihai Boca**  
*"LED Display for Timetables Controlled by IoT"*  
Jun 2021 in International Conference on Electrical, Communication, and Computer Engineering (ICECCE)  
DOI: 10.1109/ICECCE52056.2021.9514219  
**EID: 2-s2.0-85115056668**  
Scopus indexed Conference paper
- 26. Lorant A. Szolga,**  
*"Humidity and Isopropyl Alcohol Detection Sensor Based on Plastic Optical Fiber"*  
Jun 2021 in International Conference Electronics  
DOI: 10.1109/IEEECONF52705.2021.9467472  
**EID: 2-s2.0-85114271032**  
Scopus indexed Conference paper
- 27. Andreea Georgiana Covaciu; Camelia Florea; Lorant Andras Szolga**  
*"Microscopic Images Analysis for Saliva Ferning Prediction",*  
2020 International Symposium on Fundamentals of Electrical Engineering (ISFEE)  
DOI: 10.1109/ISFEE51261.2020.9756142  
**EID: 2-s2.0-85129527777**  
Scopus indexed Conference paper
- 28. Lorant Andras Szolga; Florin Mudure**  
*"Temperature Sensor Using a Hybrid Structure with Plastic Optical Fiber and Bimetal Element"*  
Jul 2021 in International Conference on Electronics, Computers and Artificial Intelligence (ECAI)  
DOI: 10.1109/ECAI52376.2021.9515030  
**EID: 2-s2.0-85115086625**  
Scopus indexed Conference paper
- 29. L A Szolga; T M Girbovan**  
*"Photovoltaic Charged Supercapacitor Power Supply for On-Body Sensors",*  
Sep 2021 in Journal of Physics: Conference Series  
DOI: 10.1088/1742-6596/2016/1/012004  
**EID: 2-s2.0-85119286205**  
Scopus indexed Conference paper
- 30. G I Giurgi; D Petreus; D V Giugi; L Szolga**  
*"Power Conversion Performance of a Single-Phase PV Inverter with Fuzzy Logic Algorithm"*  
Nov 2021 in IOP Conference Series: Earth and Environmental Science  
DOI: 10.1088/1755-1315/897/1/012018  
**EID: 2-s2.0-85121552755**  
Scopus indexed Conference paper

**31. Mihnea-Antoniou Covaci; Lorant Andras Szolga**  
*"Hampson-Linde Cryogenic Cooler Modeling and Optimization in Matlab/Simulink"*,  
Sep 2021 in International Conference on Smart and Sustainable Technologies (SpliTech)  
DOI: 10.23919/SPLITECH52315.2021.9566388  
**EID: 2-s2.0-85118447748**  
Scopus indexed Conference paper

**32. Lorant Andras Szolga**  
*"Ultrasonic Scanning System for Cartography Applications"*,  
2022 9th International Conference on Electrical and Electronics Engineering (ICEEE)  
DOI: 10.1109/ICEEE55327.2022.9772534  
**EID: 2-s2.0-85130929829**  
Scopus indexed Conference paper

## G. Other papers and scientific contributions

- 1. Lorant Szolga**  
*"Hard Implementation of the Euclidian Distance Using Translinear CMOS Circuits"*  
Novice Insights in Electronics, Communications and Information Technology  
2006, Mediamira
- 2. L. Festila, R. Groza, L.A. Szolga, S. Hintea**  
*"Log-Domain Multipliers for VLSI architectures"*,  
Scientific Bulletin of the "Politehnica" University of Timisoara, Timisoara, ISSN 1583-3380, pg.  
121-125, September 2006,
- 3. L. Festila, L.A. Szolga, M. Cirlugea, M. Gordan**  
*"An Analog Computing Circuit for SVM Classifiers"*,  
Scientific Bulletin of the "Politehnica" University of Timisoara, Timisoara, ISSN 1583-3380, pg.  
32-37, September 2006,
- 4. Lorant Szolga, Lelia Festila, Mihaela Cirlugea**  
*"Analysis of an Image CMOS Radial Basis SVM Classifier"*  
INTER-ING 2007, V-10-1 la IV-10-6, Universitatea Tehnica "Petru Maior" Targu Mures, Romania
- 5. Robert Groza, Lorant Andras SZOLGA, Lelia Festila**  
*"Image processing, using classifiers implemented with analog VLSI circuits"*  
International Workshop Control and Information Technology, pp 215-220, Technical University of  
Ostrava, Czech Republic
- 6. Lorant Szolga, Lelia Festila, Mihaela Cirlugea, Robert Groza**  
*"Simulation Platform for SVM Analysis and Design"*  
International Carpathian Control Conference, Sinaia, Romania, 2008, pp 675-678
- 7. Lorant Andras SZOLGA, Lelia Festila, Mihaela Cirlugea**  
*"Four Quadrant Analog Current Mode Modular Multiplier Designed with Differential Amplifiers"*,  
Acta Tehnica Napocensis, Cluj-Napoca, Vol.49, Nr.2, ISSN 1221-6542, pg. 19-22, 2008,  
[https://users.utcluj.ro/~atn/papers/ATN\\_2\\_2008\\_4.pdf](https://users.utcluj.ro/~atn/papers/ATN_2_2008_4.pdf)

8. **Lorant Szolga**, Lelia Festila, Mihaela Cirlugea, Robert Groza  
*"Implementation of a Current-Mode Analog Multiplier/Divider Cell Using a Translinear Geometric Mean Circuit"*  
 Applied Electronics, Pilsen, Czech Republic, 2008, pp 215-218
  
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