



# Roland SZABÓ

[GET MY OWN PROFILE](#)

Faculty of Electronics, Telecommunications  
and Information Technologies, Politehnica  
University

	All	Since 2017
Citations	472	209
h-index	13	8
i10-index	17	6

Robots  
Communication Interfaces  
Image Recognition  
Programming Languages  
Servers

TITLE	CITED BY	YEAR
<a href="#">The Development of a Head-up Display (HUD) App on the Android Mobile Operating System</a> R Szabo, A Gontean, A Burta Design and Technology of Electronics Packages (SIITME), 2021 27th ...		2021
<a href="#">The Development Process of a Quick SMS Auto Responder App for Car Drivers or Busy People</a> R Szabo, A Gontean, A Burta Design and Technology of Electronics Packages (SIITME), 2021 27th ...		2021
<a href="#">Industrial Pressure Measurement for a Thermo-Electric Hybrid Solar System</a> A Burta, R Szabo, A Gontean 2021 6th International Conference on Smart and Sustainable Technologies ...		2021
<a href="#">Simple PWM Generation using Serial Interface for a Circulation Pump used in Solar Water Heaters</a> A Burta, R Szabo, A Gontean 2021 6th International Conference on Smart and Sustainable Technologies ...		2021
<a href="#">Creating a Robot Brain with Object Recognition Using Vocal Control, Text-to-Speech Support and a Simple Webcam</a> A Burta, R Szabo, A Gontean Proceedings of SAI Intelligent Systems Conference, 566-573		2021
<a href="#">People Number Scanner Made on iPhone for Avoiding Big Crowds</a> A Burta, R Szabo, A Gontean 2021 Fifth World Conference on Smart Trends in Systems Security and ...		2021
<a href="#">The Creation Method of a Head-up Display for Cars Using an iPhone</a> A Burta, R Szabo, A Gontean 2021 Fifth World Conference on Smart Trends in Systems Security and ...		2021
<a href="#">The Design of a Crowd Density Checker App in Android with People Localization Using the GPS from the Mobile Device</a> R Szabo Electronics and Telecommunications (ISETC), 2020 International Symposium on, 1-4		2020
<a href="#">Parameter Monitoring and Logging of a Thermo-Electric Hybrid Solar System</a> R Szabo Electronics and Telecommunications (ISETC), 2020 International Symposium on, 1-4		2020

TITLE	CITED BY	YEAR
<a href="#">The Development Process of a Tooth Brushing App on Android Using Movement Direction Detection with OpenCV</a> RS Ricman, R Szabo, A Gontean Proceedings of the Future Technologies Conference, 985-997		2020
<a href="#">Resource Utilization Comparison between Plain FPGA and SoC Combined with FPGA for Image Processing Applications Used by Robotic Arms</a> R Szabo, G Aurel Design and Technology of Electronics Packages (SIITME), 2020 26th ...		2020
<a href="#">Python as the Second Programming Language</a> R Szabo Politehnica		2020
<a href="#">Water Flow Measurement in the Pipes of a Thermo-Electric Hybrid Solar System</a> A Burta, R Szabo 2020 5th International Conference on Smart and Sustainable Technologies ...		2020
<a href="#">Solar Irradiance Measurement for a Thermo-Electric Hybrid Solar System</a> A Burta, R Szabo 2020 5th International Conference on Smart and Sustainable Technologies ...		2020
<a href="#">Object Recognition Development for Android Mobile Devices with Text-to-Speech Function Created for Visually Impaired People</a> A Burta, R Szabo, A Gontean 2020 Fourth World Conference on Smart Trends in Systems, Security and ...	1	2020
<a href="#">Temperature Measurements with Thermocouples Used in a Thermo-electric Hybrid Solar System</a> A Burta, R Szabo, A Gontean 2020 Fourth World Conference on Smart Trends in Systems, Security and ...	1	2020
<a href="#">Vacuum Pressure Online Logging Software Creation for a Solar Collector</a> RS Ricman, R Szabo, A Burta 2020 43rd International Conference on Telecommunications and Signal ...	1	2020
<a href="#">Temperature Acquisition and Logging in an Online SQL Database Used in a Photovoltaic System</a> RS Ricman, R Szabo, A Burta 2020 43rd International Conference on Telecommunications and Signal ...		2020
<a href="#">The Creation Process of a Secure and Private Mobile Web Browser with no Ads and no Popups</a> R Szabo, A Gontean Design and Technology in Electronic Packaging, 25th International Symposium for		2019
<a href="#">The Creation of a Free Vocal SMS and Email Sender and Reader App with Chat Style Interface</a> RS Ricman, R Szabo, A Gontean Intelligent Data Acquisition and Advanced Computing Systems: Technology and ...		2019

TITLE	CITED BY	YEAR
<a href="#">Sun Tracker Robotic Arm Optical Distance Measurement Evaluation at Different Positions Using Six Sigma Tools</a> R Szabo, A Gontean Infocommunications Journal 11 (1), 54-60		2019
<a href="#">Programming Languages 2 - Laboratory Guide</a> R Szabo Polithenica		2019
<a href="#">Prgramming Languages 2 - Course</a> R Szabo Politehnica		2019
<a href="#">The Creation Process of an Individual Grade Sender via E-Mail for Students Running on the Server of Sun Trackers</a> R Szabo 2018 26th Telecommunications Forum (TELFOR)		2018
<a href="#">Search Engine Creation for a Web Platform Where the Data of Sun Follower Robots are Stored</a> R Szabo 2018 26th Telecommunications Forum (TELFOR)		2018
<a href="#">Configurable Online Test Creation in PHP with Auto Evaluation of Students Running on the Server of the Sun Trackers</a> R Szabo, A Gontean Design and Technology of Electronics Packages (SIITME), 2018 24th ...	1	2018
<a href="#">Optical Distance Measurement System Analysis at Different Color Temperatures of the Light Source Used by Sun Trackers</a> R Szabo, A Gontean Design and Technology of Electronics Packages (SIITME), 2018 24th ...		2018
<a href="#">Terrestrial Drone Creation from Rover, Robotic Arm and Raspberry Pi with Sun Tracker Function</a> R Szabo Electronics and Telecommunications (ISETC), 2018 International Symposium on ...	2	2018
<a href="#">Robotic Arm Control with Hand Movement Gestures</a> S Bularka, R Szabo, M Otesteanu, M Babaita Telecommunications and Signal Processing (TSP), 2018 41st International ...	6	2018
<a href="#">3D Image Reconstruction of a Robotic Arm in MATLAB from Images Acquired with FPGA</a> RS Ricman, R Szabo, A Gontean Environment and Electrical Engineering (EEEIC), 2018 18th International ...		2018
<a href="#">A Comparative Analysis of Implementation Performances for Image Processing Applications Used to Control Robotic Arms</a> RS Ricman, R Szabo, A Gontean Environment and Electrical Engineering (EEEIC), 2018 18th International ...		2018

TITLE	CITED BY	YEAR
<a href="#">Photovoltaic cell and module IV characteristic approximation using Bézier curves</a> R Szabo, A Gontean Applied Sciences 8 (5), 655	18	2018
<a href="#">A novel high accuracy PV cell model including self heating and parameter variation</a> A Gontean, S Lica, S Bularka, R Szabo, D Lascu Energies 11 (1), 36	26	2017
<a href="#">Optical Distance Measurement Online Data Evaluation at Different Positions Using Six Sigma Tools</a> R Szabó, A Gontean 4th Hungarian Future Internet Conference and Smart City Exhibition		2017
<a href="#">Resource Utilization Comparison Between Plain FPGA and SoC with FGPA for an Image Processing Application for Robotic Arms Used in Sun Trackers</a> R Szabo, A Gontean Design and Technology of Electronics Packages (SIITME), 2017 23rd ...		2017
<a href="#">Pong Game Executable Creation in Borland Pascal with the Possibility to be Executed on a Solar Panel's Control FPGA to Prove that any Executable can be Ported</a> R Szabo, A Gontean Design and Technology of Electronics Packages (SIITME), 2017 23rd ...		2017
<a href="#">SCORBOT-ER III Robotic Arm Control with FPGA Using Image Processing with the Possibility to Use as Them as Sun Trackers</a> R Szabo, A Gontean Telecommunications and Signal Processing (TSP), 2017 40th Anniversary of ...	3	2017
<a href="#">Optical Distance Measurement Analysis for Sun Tracker Robotic Arms at Different Luminous Fluxes Unsing Six Sigma Methods</a> R Szabo, A Gontean Telecommunications and Signal Processing (TSP), 2017 40th Anniversary of ...	1	2017
<a href="#">Sun Tracker Robotic Arm Optical Distance Measuring Algorithm Evaluation Using Six Sigma Methods</a> R Szabo, A Gontean Environment and Electrical Engineering (EEEIC), 2017 17th International ...	1	2017
<a href="#">SCORBOT-ER III Robotic Arm Detection and Control with Color Recognition with the Possibility for Using in Sun Tracker Applications</a> R Szabo, A Gontean Environment and Electrical Engineering (EEEIC), 2017 17th International ...	2	2017
<a href="#">Lynxmotion AL5 Type Robotic Arm Control with Color Detection on FPGA Running Linux OS</a> R Szabo, A Gontean Telecommunications Forum (TELFOR), 2016 24th, 818-821	1	2016