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1

The Development Process of a Quick SMS Auto Responder App for Car Drivers or Busy People

Szabo, R; Gontean, A and Burta, A

IEEE 27th International Symposium for Design and Technology in Electronic Packaging (SIITME)

2021 | 2021 IEEE 27TH INTERNATIONAL SYMPOSIUM FOR DESIGN AND TECHNOLOGY IN ELECTRONIC PACKAGING (SIITME 2021) , pp.1-4

The aim of this work is to redefine SMS messaging. Sometimes a person cannot respond to an SMS, since has no possibility to do this, because he is driving a car, or he is doing something and has no free hands, for example, when driving a ... Show more

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The Development of a Head-up Display (HUD) App on the Android Mobile Operating System

Szabo, R; Gontean, A and Burta, A

IEEE 27th International Symposium for Design and Technology in Electronic Packaging (SIITME)

2021 | 2021 IEEE 27TH INTERNATIONAL SYMPOSIUM FOR DESIGN AND TECHNOLOGY IN ELECTRONIC PACKAGING (SIITME 2021) , pp.5-8

The head-up display (HUD) is a premium feature found mostly in expensive cars. The method how it works is really simple, some information has to be projected on the windscreen of the car, so the driver won't have to look down or ... Show more

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10References

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3

Object Recognition Development for Android. Mobile Devices with Text-to-Speech Function Created for Visually Impaired People

Burta, A; Szabo, R and Gontean, A

4th World Conference on Smart Trends in Systems, Security and Sustainability (WorldS4)

2020 | PROCEEDINGS OF THE 2020 FOURTH WORLD CONFERENCE ON SMART TRENDS IN SYSTEMS, SECURITY AND SUSTAINABILITY (WORLDS4 2020) , pp.608-613

The aim of this work is presenting how to create an artificial intelligence, a computer brain or a talking smart robot with the usage of a mobile device. The system is asked to recognize an object, after it recognizes the objects and says lou ... Show more

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https://www.webofscience.com/wos/woscc/summary/f4942e80-e11c-4be1-8389-d690fd542761-3a6ccd25/relevance/1

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| <input type="checkbox"/> Gontean A | 18 |
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For more options, use [Analyze Results](#)☐ 4 Temperature Measurements with Thermocouples Used in a Thermo-electric Hybrid Solar System[Burta, A; Szabo, R](#) and [Gontean, A](#)

4th World Conference on Smart Trends in Systems, Security and Sustainability (WorldS4) 2020 | PROCEEDINGS OF THE 2020 FOURTH WORLD CONFERENCE ON SMART TRENDS IN SYSTEMS, SECURITY AND SUSTAINABILITY (WORLDS4 2020) , pp.614-619

The aim of this work is to acquire temperature from as much sensors as possible. The sensors are PT 100 and PT 1000 type thermocouples placed strategically in key parts of a thermo-electric hybrid solar system. The solar system is made of ... [Show more](#)

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References[Related records](#)☐ 5 Temperature Acquisition and Logging in an Online SQL Database Used in a Photovoltaic System[Ricman, RS; Szabo, R](#) and [Burta, A](#)

43rd International Conference on Telecommunications and Signal Processing (TSP) 2020 | 2020 43RD INTERNATIONAL CONFERENCE ON TELECOMMUNICATIONS AND SIGNAL PROCESSING (TSP) , pp.57-60

The aim of this work is to present a simple method to acquire temperature information from an analog LM35 centigrade temperature sensor and to save the data in an online SQL (Structured Query Language) database. The paper ... [Show more](#)

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References[Related records](#)☐ 6 Vacuum Pressure Online Logging Software Creation for a Solar Collector[Ricman, RS; Szabo, R](#) and [Burta, A](#)

43rd International Conference on Telecommunications and Signal Processing (TSP) 2020 | 2020 43RD INTERNATIONAL CONFERENCE ON TELECOMMUNICATIONS AND SIGNAL PROCESSING (TSP) , pp.61-64

The aim of this work is to present the creation of a software for pressure measurements in the vacuum chamber of a solar collector of a thermo-electric hybrid solar system. The solar system is composed of a photovoltaic solar concentrator, ... [Show more](#)

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References[Related records](#)☐ 7 Parameter Monitoring and Logging of a Thermo-Electric Hybrid Solar System[Szabo, R](#)

14th International Symposium on Electronics and Telecommunications (ISETC) 2020 | 2020 14TH INTERNATIONAL SYMPOSIUM ON ELECTRONICS AND TELECOMMUNICATIONS (ISETC) , pp.115-118

This work presents the monitoring and logging of parameters of a solar system. The solar system is used to generate current and heat up water. Gathering and monitoring data can be always beneficial to any system, since upon a failure, an imn ... [Show more](#)

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14  
References[Related records](#)☐ 8 The Design of a Crowd Density Checker App in Android with People Localization Using the GPS from the Mobile Device[Szabo, R](#)

14th International Symposium on Electronics and Telecommunications (ISETC) 2020 | 2020 14TH INTERNATIONAL SYMPOSIUM ON ELECTRONICS AND TELECOMMUNICATIONS (ISETC) , pp.347-350

The aim of this work focuses on checking the density of people in a certain place. The idea behind is based on the fact that almost every person has a mobile device with GPS, so getting the coordinated from the mobile device, can get the ... [Show more](#)

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- ☐ 9 [Resource Utilization Comparison between Plain FPGA and SoC Combined with FPGA for Image Processing Applications Used by Robotic Arms](#)

[Szabo, R](#) and [Gontean, A](#)

IEEE 26th International Symposium for Design and Technology in Electronic Packaging (SIITME)

2020 | 2020 IEEE 26TH INTERNATIONAL SYMPOSIUM FOR DESIGN AND TECHNOLOGY IN ELECTRONIC PACKAGING (SIITME 2020) , pp.256-259

This paper presents a comparison of two FPGA implementations for controlling robotic arm with image processing. Image processing it's useful in robotic industry since robots can be made more autonomous this way to reduce as much as ... [Show more](#)

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- ☐ 10 [Sun Tracker Robotic Arm Optical Distance Measurement Evaluation at Different Positions Using Six Sigma Tools](#)

[Szabo, R](#) and [Gontean, A](#)

Mar 2019 | [INFOCOMMUNICATIONS JOURNAL](#) 11 (1) , pp.54-60

This paper presents an optical distance evaluation solution, for a sun tracker robotic arm, with the help of Six Sigma. With the help of statistical tools any measurement system can be evaluated and a measurement system analysis (MSA) can be ... [Show more](#)

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- ☐ 11 [The Creation of a Free Vocal SMS and Email Sender and Reader App with Chat Style Interface](#)

[Ricman, RS](#); [Szabo, R](#) and [Gontean, A](#)

10th IEEE International Conference on Intelligent Data Acquisition and Advanced Computing Systems - Technology and Applications (IDAACS)

2019 | PROCEEDINGS OF THE 2019 10TH IEEE INTERNATIONAL CONFERENCE ON INTELLIGENT DATA ACQUISITION AND ADVANCED COMPUTING SYSTEMS - TECHNOLOGY AND APPLICATIONS (IDAACS), VOL. 2 , pp.761-764

The aim of this work is to make SMS messaging free and as simple as possible. There are many countries even these days, where SMS sending has quit a high price. The SMS messages are shown in a chat-style app, where all messages ar ... [Show more](#)

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- ☐ 12 [The Creation Process of a Secure and. Private Mobile Web Browser with no Ads and no Popups](#)

[Szabo, R](#) and [Gontean, A](#)

IEEE 25th International Symposium for Design and Technology in Electronic Packaging (SIITME)

2019 | 2019 IEEE 25TH INTERNATIONAL SYMPOSIUM FOR DESIGN AND TECHNOLOGY IN ELECTRONIC PACKAGING (SIITME 2019) , pp.232-235

The aim of this work is to create a new style web browser. The other web browsers can have safety issues and have many ads and popups. The other web browsers can till up cache with the logging of big history of visited web pages. This ... [Show more](#)

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- ☐ 13 [Photovoltaic Cell and Module I-V Characteristic Approximation Using Bezier Curves](#)



[Szabo, R](#) and [Gontean, A](#)

May 2018 | [APPLIED SCIENCES-BASEL](#) 8 (5)

The aim of this work was to introduce new ways to model the I-V characteristic of a photovoltaic (PV) cell or PV module using straight lines and Bezier curves. This is a complete novel approach, Bezier curves being previously used ... [Show more](#)

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- ☐ 14 **Robotic Arm Control with Hand Movement Gestures**  
[Bularka, S; Szabo, R](#); (...); [Babaita, M](#)  
 41st International Conference on Telecommunications and Signal Processing (TSP)  
 2018 | 2018 41ST INTERNATIONAL CONFERENCE ON TELECOMMUNICATIONS AND SIGNAL  
 PROCESSING (TSP) , pp.543-546

This paper presents an application on how to control a robotic arm with the hand movement of the operator. Hand movement controlled robotic arms can move more naturally by following the movement of the operator's hand. TI ... [Show more](#)

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- ☐ 15 **A Novel High Accuracy PV Cell Model Including Self Heating and Parameter Variation**

[Gontean, A; Lica, S](#); (...); [Lascu, D](#)  
 Jan 2018 | [ENERGIES](#) 11 (1)

This paper proposes a novel model for a PV cell with parameters variance dependency on temperature and irradiance included. The model relies on commercial available data, calculates the cell parameters for standard conditions and ther ... [Show more](#)

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- ☐ 16 **A Comparative Analysis of Implementation Performances for Image Processing Applications Used to Control Robotic Arms**

[Ricman, RS; Szabo, R](#) and [Gontean, A](#)  
 IEEE International Conference on Environment and Electrical Engineering (EEEIC) / IEEE  
 Industrial and Commercial Power Systems Europe (ICPS Europe)  
 2018 | 2018 IEEE INTERNATIONAL CONFERENCE ON ENVIRONMENT AND ELECTRICAL  
 ENGINEERING AND 2018 IEEE INDUSTRIAL AND COMMERCIAL POWER SYSTEMS EUROPE  
 (EEEIC / I&CPS EUROPE)

This paper presents an analysis of code implementation performance for image processing algorithms. The test is made for image processing algorithms for robotic arms, but it is suitable for any type of image processing softwa ... [Show more](#)

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- ☐ 17 **3D Image Reconstruction of a Robotic Arm in MATLAB from Images Acquired with FPGA**

[Ricman, RS; Szabo, R](#) and [Gontean, A](#)  
 IEEE International Conference on Environment and Electrical Engineering (EEEIC) / IEEE  
 Industrial and Commercial Power Systems Europe (ICPS Europe)  
 2018 | 2018 IEEE INTERNATIONAL CONFERENCE ON ENVIRONMENT AND ELECTRICAL  
 ENGINEERING AND 2018 IEEE INDUSTRIAL AND COMMERCIAL POWER SYSTEMS EUROPE  
 (EEEIC / I&CPS EUROPE)

This paper presents a 3D reconstruction of images, filmed with stereo cameras, in MATLAB. In the experiment it's used a robotic arm which it's photographed with stereo cameras and it's reconstructed in 3D using software. The MATL ... [Show more](#)

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- ☐ 18 **Terrestrial Drone Creation from Rover, Robotic Arm and Raspberry Pi with Sun Tracker Function**

[Szabo, R](#)  
 13th International Symposium on Electronics and Telecommunications (ISETC)  
 2018 | 2018 13TH INTERNATIONAL SYMPOSIUM ON ELECTRONICS AND  
 TELECOMMUNICATIONS (ISETC) , pp.59-62

This paper presents the creation steps and components of a terrestrial drone. The drone is created from a rover, a robotic arm and a Raspberry Pi. The rover and robotic arm are from Lynxmotion. The rover has four motors and the robotic ar ... [Show more](#)

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☐ 19 [The Creation Process of an Individual Grade Sender via E-Mail for Students Running on the Server of Sun Trackers](#)

[Szabo, R](#)

26th Telecommunications Forum (TELFOR)

2018 | 2018 26TH TELECOMMUNICATIONS FORUM (TELFOR) , pp.611-614

The aim is to present the creation of an individual grade sender tool. This can send grades for every student via e-mail. The tool is running on the web server where the sun trackers' data is stored. To respect the intimacy of a student, e...

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☐ 20 [Search Engine Creation for a Web Platform Where the Data of Sun Follower Robots are Stored](#)

[Szabo, R](#)

26th Telecommunications Forum (TELFOR)

2018 | 2018 26TH TELECOMMUNICATIONS FORUM (TELFOR) , pp.615-618

The aim of this work is to present a search engine creation for a web page. The webpage stores data about Sun Follower Robots. The data stored are different parameters measured from the solar tracker robots, like the values of light ...

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☐ 21 [Optical Distance Measurement System Analysis at Different Color Temperatures of the Light Source Used by Sun Trackers](#)

[Szabo, R](#) and [Gontean, A](#)

24th IEEE International Symposium on Design and Technology in Electronic Packaging (SIITME)

2018 | 2018 IEEE 24TH INTERNATIONAL SYMPOSIUM FOR DESIGN AND TECHNOLOGY IN ELECTRONIC PACKAGING (SIITME) , pp.134-137

This paper presents an MSA (Measurement System Analysis) for a system which measures distances with video cameras. Distance measurements with video cameras are often used in robotic systems. In our system the robotic system is a s...

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☐ 22 [Configurable Online Test Creation in PHP with Auto Evaluation of Students Running on the Server of the Sun Trackers](#)

[Szabo, R](#) and [Gontean, A](#)

24th IEEE International Symposium on Design and Technology in Electronic Packaging (SIITME)

2018 | 2018 IEEE 24TH INTERNATIONAL SYMPOSIUM FOR DESIGN AND TECHNOLOGY IN ELECTRONIC PACKAGING (SIITME) , pp.165-168

This paper presents the creation of a configurable online test in PHP. The test works with auto evaluation, so the student can know immediately the result of the test. There were also made some adjustments to the tool to make it robust, to n...

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☐ 23 [Sun Tracker Robotic Arm Optical Distance Measuring Algorithm Evaluation Using Six Sigma Methods](#)

[Szabo, R](#) and [Gontean, A](#)

17th IEEE International Conference on Environment and Electrical Engineering (IEEE EEEIC) / 1st IEEE Industrial and Commercial Power Systems Europe Conference (IEEE I and CPS Europe)

2017 | 2017 1ST IEEE INTERNATIONAL CONFERENCE ON ENVIRONMENT AND ELECTRICAL ENGINEERING AND 2017 17TH IEEE INDUSTRIAL AND COMMERCIAL POWER SYSTEMS EUROPE (IEEE I&CPS EUROPE)

This paper presents an evaluation of web cameras used for distance measuring. The web cameras can measure distances optically. Two identical camera

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SCORBOT-ER III Robotic Arm Detection and Control with Color Recognition with the Possibility for Using in Sun Tracker Applications

[Szabo, R](#) and [Gontean, A](#)  
17th IEEE International Conference on Environment and Electrical Engineering (IEEE EEEIC) / 1st IEEE Industrial and Commercial Power Systems Europe Conference (IEEE I and CPS Europe)  
2017 | 2017 1ST IEEE INTERNATIONAL CONFERENCE ON ENVIRONMENT AND ELECTRICAL ENGINEERING AND 2017 17TH IEEE INDUSTRIAL AND COMMERCIAL POWER SYSTEMS EUROPE (EEEIC / I&CPS EUROPE)  
  
This work shows the control and detection in space of the SCORBOT-ER III industrial/educational robotic arm. The robotic arm has glued markers on the joints, which are distinguished using image processing techniques. Tr ... [Show more](#)

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Optical Distance Measurement Analysis for Sun Tracker Robotic Arms at Different Luminous Fluxes unsing Six Sigma Methods

[Szabo, R](#) and [Gontean, A](#)  
40th International Conference on Telecommunications and Signal Processing (TSP)  
2017 | 2017 40TH INTERNATIONAL CONFERENCE ON TELECOMMUNICATIONS AND SIGNAL PROCESSING (TSP) , pp.216-219  
  
In this experiment a system was made for measuring distances with stereo cameras using stereo triangulation. Optical distance measurement with video cameras is often used in robotic systems. Any type of robot can elegantly measure dista ... [Show more](#)

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SCORBOT-ER III Robotic Arm Control with FPGA Using Image Processing with the Possibility to Use as Them as Sun Trackers

[Szabo, R](#) and [Gontean, A](#)  
40th International Conference on Telecommunications and Signal Processing (TSP)  
2017 | 2017 40TH INTERNATIONAL CONFERENCE ON TELECOMMUNICATIONS AND SIGNAL PROCESSING (TSP) , pp.563-566  
  
This paper presents a SCORBOT-ER III type robotic arm which can be controlled only with an FPGA board. The robotic arm is an industrial/educational robotic arm which can execute a high number of tasks, but instead of a computer, only ... [Show more](#)

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