



CRITERION 3
Research, Innovations and Extension

3.4 Research Publications and Awards

3.4.4 Number of books and chapters in edited volumes/books published per teacher during last five years

**Books and Chapters in edited volumes/books published and
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2017-2018



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2017 Conference on Emerging Devices and Smart Systems, ICEDSS 2017 • Pages 68 - 71 • 18 October 2017 • Article number 8073661 • 2017 IEEE Conference on Emerging Devices and Smart Systems, ICEDSS 2017 • Tamil Nadu • 3 March 2017 through 4 March 2017 • Code 131221

Document type

Conference Paper

Source type

Conference Proceedings

ISBN

978-150905555-5

DOI

10.1109/ICEDSS.2017.8073661

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Cognitive vision based minimization of correspondence error by shear analysis for outdoor robot maps in navigation

Nithya N.^a ; Vinothkumar P.^b ; Kunjachen, Liza M.^b ; Parveen, S. Riyas^a

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^a Department of Information Technology, Sethu Institute of Technology, Pulloor, Tamila Nadu, India

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Computer vision makes mobile robot to create environment map for outdoor environment in the focus of straight line. The human vision and cognitive based analysis results correspondence error free spatial map. The proposed map building method computes shear angle values for every grid in forward direction. This shear factor value varies from 44° to 65° and the value is 0.707 to 0.88. This cognitive vision map mainly useful in intelligent navigation with identifying large pits and escaped from wheel slippage in space terrains. © 2017 IEEE.

Author keywords

cognitive map; Computer vision; object detection; occupancy grids; shear analysis

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Integrated Software Development Methodology for Real-time Precise Control of UAV

Park, J.K. , Park, E.Y. , Jeon, H.S. (2019) *IOP Conference Series: Materials Science and Engineering*

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Human Cognition and Vision Based Earlier Path Determination System for Indoor Mobile Robot Path Planning

Nithya, N. , Tamil Selvi, D. (2015) *Advances in Intelligent Systems and Computing*

A two-layered subgoal based mobile robot navigation algorithm with vision system and IR sensors

Nirmal Singh, N. , Chatterjee, A. , Chatterjee, A. (2011) *Measurement: Journal of the International Measurement Confederation*

Vision-based mobile robot navigation using subgoals

Chatterjee, A. , Rakshit, A. , Singh, N.N. (2013) *Studies in Computational Intelligence*

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• Pages 642 - 647 • 21 July 2017 • Article number 7988029 • 2016 International Conference on Control Instrumentation Communication and Computational Technologies, ICCICCT 2016 • Kumaracoil • 16 December 2016 through 17 December 2016 • Code 129535

Document type

Conference Paper

Source type

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ISBN

978-150905240-0

DOI

10.1109/ICCICCT.2016.7988029

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Computational intelligence in intrusion detection system for snort log using hadoop

[Seelammal C.^a](#) ; [Devi, K. Vimala^b](#)
[Save all to author list](#)^a Department of Information Technology, Sethu Institute of Technology, Tamil Nadu, India^b Department of Computer Science and Engineering, Velammal Engineering College, Chennai, Tamil Nadu, India
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Abstract[Author keywords](#)[Indexed keywords](#)[SciVal Topics](#)[Metrics](#)**Abstract**

Today Cyber-attacks are increasing and the security technologies so far we used are in capable of handling the large data sets of data. Now a day the attacks motive has changed from simple hacking, damaging to large scale network and server system. In the presence of fresh and formerly unknown activities, intrusion detection rate is inaccurate and low. Many research works are focused in this area. In all the security infrastructures, Network Intrusion Detection Systems (NIDS) have grown a standard and in separable component. For this reason, a new model has been proposed based on Big Data for detecting unknown attacks. The core idea of this paper is to analyze the activity of the network users, and to classify whether the user is normal or anomaly. For implementation of this project, we have used the snort, the tools which are used to capture the online behavior of network users. After collecting the network behavior, the dataset was analyzed with hadoop framework using C4.5

Cited by 5 documents

Real-time network intrusion detection using deferred decision and hybrid classifier

 Kim, T. , Pak, W.
(2022) *Future Generation Computer Systems*

Early Detection of Network Intrusions Using a GAN-Based One-Class Classifier

 Kim, T. , Pak, W.
(2022) *IEEE Access*

Hybrid Classification for High-Speed and High-Accuracy Network Intrusion Detection System

 Kim, T. , Pak, W.
(2021) *IEEE Access*
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Distributed processing of Snort alert log using Hadoop

 Cheon, J. , Choe, T.-Y.
(2013) *International Journal of Engineering and Technology*

Detection of distributed denial of service attack using dlm algorithm in hadoop

 Kalai Vani, Y.S. , Ranjana, P.
(2020) *Journal of Critical Reviews*

Scalable intrusion detection systems log analysis using cloud computing infrastructure

 Kumar, M. , Hanumanthappa, M.
(2013) *2013 IEEE International Conference on Computational Intelligence and Computing Research, IEEE ICCIC 2013*
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Proceedings of 2016 International Conference on Advanced Communication Control and Computing Technologies, ICACCCT 2016 • Pages 827 - 831 • 24 January 2017 • Article number 7831754 • 2016 International Conference on Advanced Communication Control and Computing Technologies, ICACCCT 2016 • Ramanathapuram, Tamil Nadu • 25 May 2016 through 27 May 2016 • Code 126081

Document type

Conference Paper

Source type

Conference Proceedings

ISBN

978-146739545-8

DOI

10.1109/ICACCCT.2016.7831754

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Design and analysis of coupled inductor based high step-up DC-DC converter

[Lakshmi, K. Radha^a](#) ; [Dhanasekaran R.^b](#)
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 1 37th percentile
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This paper presents a steady state analysis of DC-DC Converter, including switched capacitors and a switched coupled inductor. By adopting the coupled inductor to charge switched capacitors during switch turn on period, the voltage gain can be effectively increased, and the turn's ratio of the coupled inductor can be also reduced. In addition, the voltage stress of the active switch and diodes is clamped. Therefore, low voltage components can be adopted to reduce the conduction loss and cost, and conversion efficiency is improved. The operating principle and steady state analysis are discussed in this paper. The voltage gain of the proposed converter is 19.25 and the proposed converter is designed for output power 300W, with 12-V input voltage and 231-V output voltage. © 2016 IEEE.

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High Step-up Low-voltage Stress Boost Converter Based on Coupled Inductor | 基于耦合电感的高增益低电压应力Boost变换器

Yao, Z. , Zeng, J. , Liu, J. (2019) *Zhongguo Dianji Gongcheng Xuebao/Proceedings of the Chinese Society of Electrical Engineering*

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Double tapped-inductor boost converter

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Modified step-up boost converter with coupled-inductor and super-lift techniques

Bahrami, H. , Iman-Eini, H. , Kazemi, B. (2015) *IET Power Electronics*

A High Step-Up Interleaved DC-DC Converter with Voltage Multiplier and Coupled Inductors for Renewable Energy Systems

Alghaythi, M.L. , O'Connell, R.M. , Islam, N.E. (2020) *IEEE Access*

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AIP Conference Proceedings • Volume 1832 • 19 May 2017 • Article number 030016 • 61st DAE Solid State Physics Symposium • Bhubaneswar, Odisha • 26 December 2016 through 30 December 2016 • Code 127872

Document type

Conference Paper

Source type

Conference Proceedings

ISSN

0094243X

ISBN

978-073541500-3

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10.1063/1.4980195

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Influence of ionic radius on magnetic phase transition in $R_{1-x}Sr_xMnO_3$ perovskites

[Sakthipandi K.](#)^a; [Arunachalam M.](#)^b; [Thamilmaran P.](#)^b; [Sivabharathy M.](#)^a; [Sankarajan S.](#)^c

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$R_{1-x}Sr_xMnO_3$ (R-Rare earth elements such as La, Pr, Sm and Nd) perovskite materials were prepared employing solid state reaction technique. On-line measurement of ultrasonic longitudinal velocity was carried out on the prepared perovskites over a wide range of temperature at a fundamental frequency of 5 MHz employing through transmission method. The phase transition temperature is explored based on the variation in observed anomaly in ultrasonic velocity. The obtained transition width and height at Curie temperature (i.e., transition from ferro to para magnetic phase) in the measured ultrasonic velocity were used to explore the physiochemical properties of the perovskites. The transition width and height of anomalous peak in measured ultrasonic velocity are also correlated with the ionic radius of the trivalent element. The results reveal that an increase in ionic radius of the trivalent elements leads to a decrease in double exchange interaction. © 2017 Author(s).

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The physical properties of submicron and nano-grained $La_{0.7}Sr_{0.3}MnO_3$ and $Nd_{0.7}Sr_{0.3}MnO_3$ synthesised by sol-gel and solid-state reaction methods

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Effect of rare earth ions on transition temperature in perovskite materials by on-line ultrasonic studies

Sankarajan, S. , Sakthipandi, K. , Rajendran, V. (2012) *Materials Research*

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