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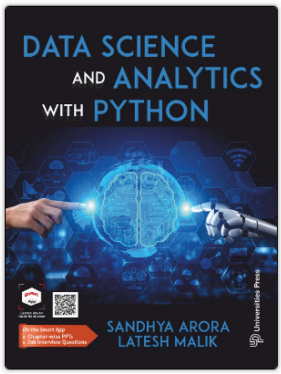

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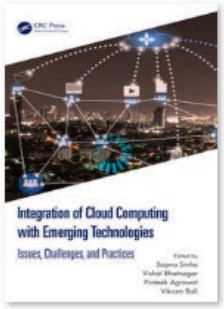

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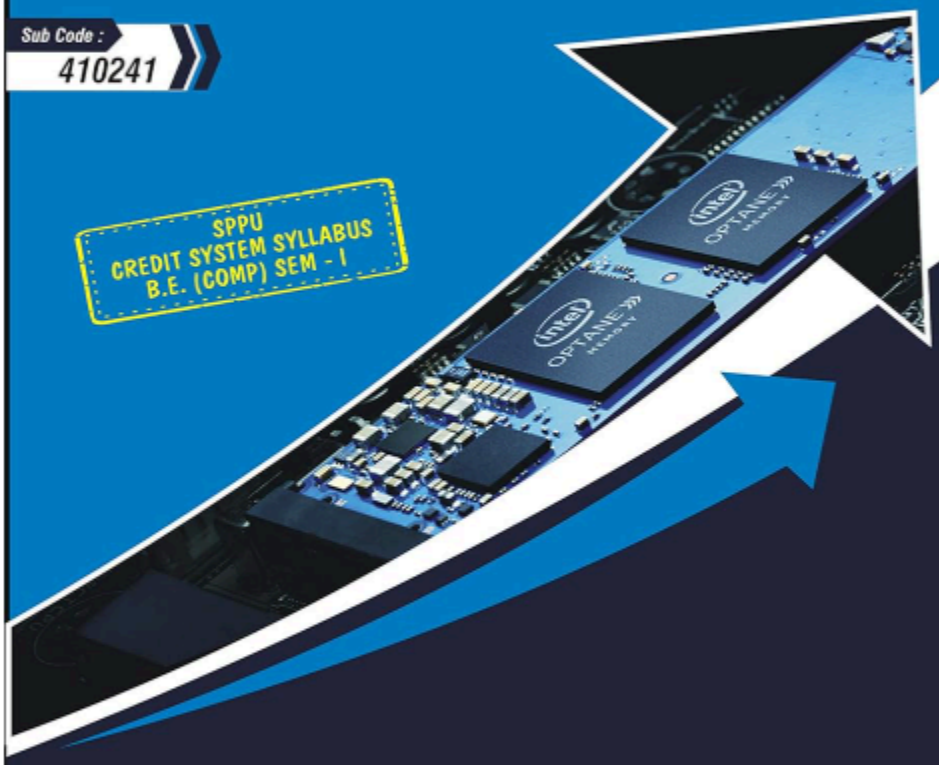

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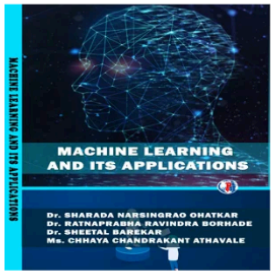

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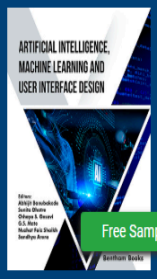

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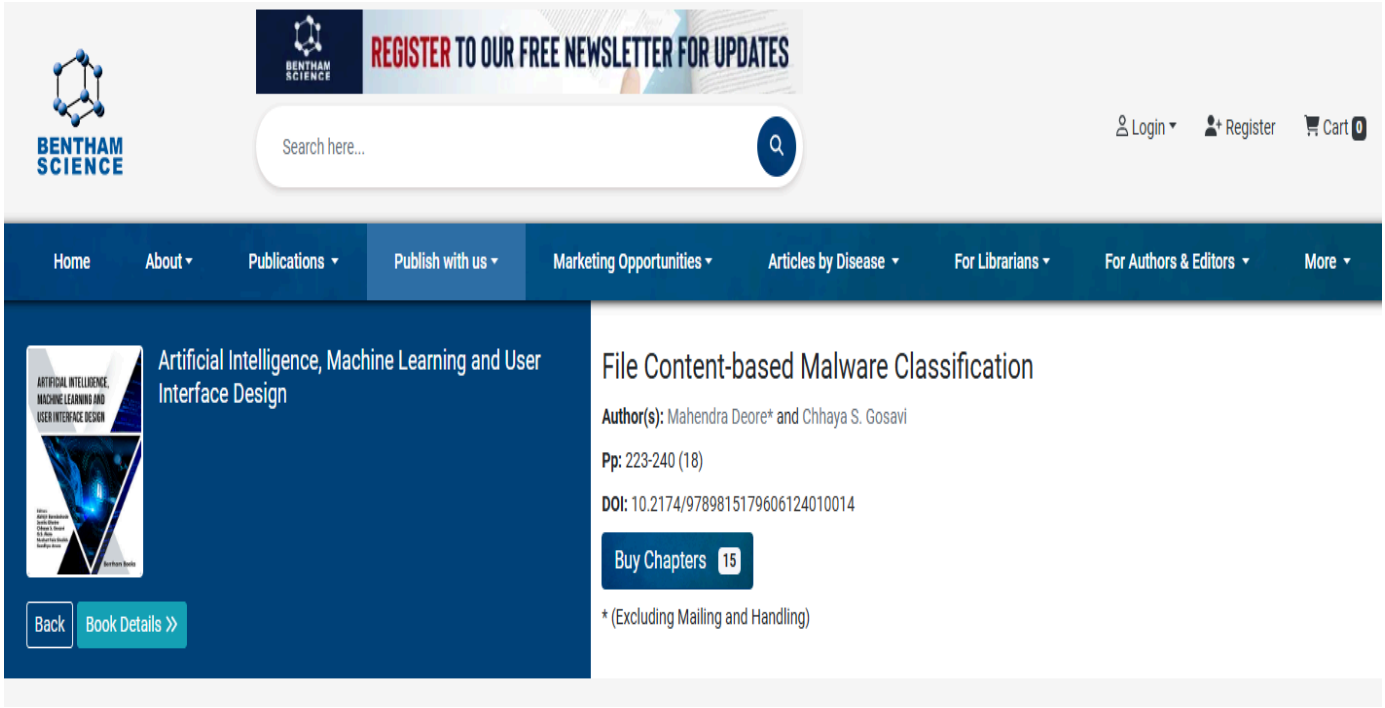
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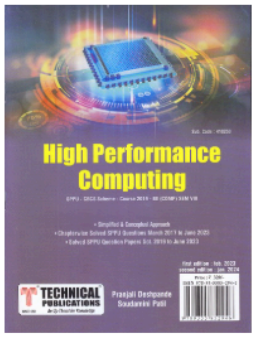

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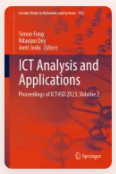

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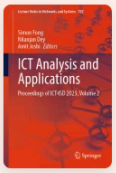

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Transformer-based models for hate speech classification

Deepti Jain; Sandhya Arora; C. K. Jha; Garima Malik
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AIP Conf. Proc. 3072, 020017 (2024)
https://doi.org/10.1063/5.0198822

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This research paper explores the application of text classification and natural language processing techniques for enhancing hate speech detection. The study employs machine learning (ML) and deep learning models, including transformer models such as BERT, RoBERTa, and DistilBERT, to improve the accuracy of hate speech classifiers. Through a comprehensive empirical analysis on three diverse datasets (Data-ICWSM, Data-ALW2, Data-OLID), the study demonstrates the effectiveness of these models in accurately identifying hate speech. Compared to traditional baselines, the BERT models exhibit a significant performance boost in macro and weighted F1-scores. Additionally, the study addresses the challenge of imbalanced class distributions in the datasets by employing sampling techniques during training. Overall, the research highlights the potential of transformer models for hate speech detection and provides insights for future exploration in this domain.

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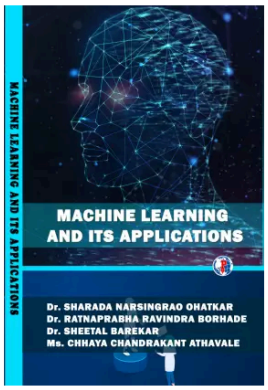

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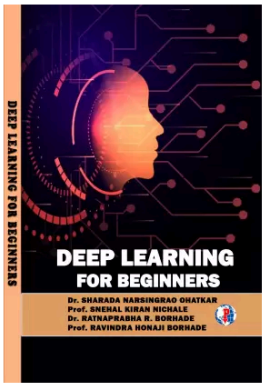

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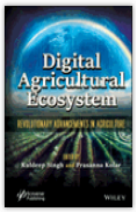
Design of Smart Digital Crop Harvester Monitoring Cluster

Aditi Oak, Ishwari Patil, Aarya Phansalkar, Ashwini M. Deshpande, Shounak Sharangpani

Book Editor(s):Kuldeep Singh, Prasanna Kolar

First published: 16 April 2024 | https://doi.org/10.1002/9781394242962.ch13



Digital Agricultural Ecosystem: Revolutionary Advancements in Agriculture

Summary

In this work, we propose a smart digital crop harvester monitoring cluster designed to aid farmers and agricultural workers in keeping track of essential agricultural vehicle information. The proposed system monitors and displays the vehicle's real-time data for essential parameters. Monitoring the fuel levels is important for avoiding downtime and delays in operations. Tracking of engine oil pressure becomes pivotal as low oil strain can demonstrate potential engine issues. The cluster provides real-time data on radiator water temperature, to avert potential issues with the engine cooling system. Threshing RPM (speed) is useful since different crops require different RPMs for the effective separation of grain from straw. Data thus acquired are sent to the cloud allowing live monitoring and predictive analysis. Currently, in the market, similar devices are imported into India, leading to heavy import duties and a significant increase in cost. This puts a financial strain on Indian consumers creating a gap in the accessibility of the latest agricultural technologies. Our market survey confirms that this integrated solution can address multiple parameters simultaneously, reducing production and testing costs while streamlining the installation process. Hence, the cluster is an easy-to-operate, cost-

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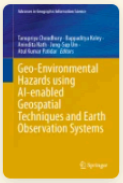

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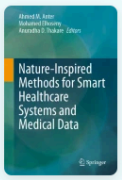

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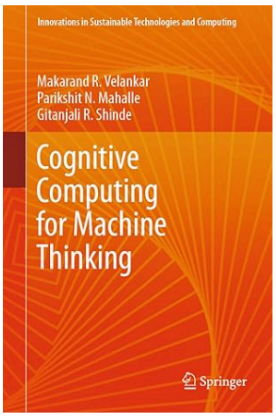

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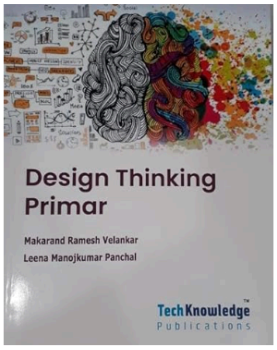

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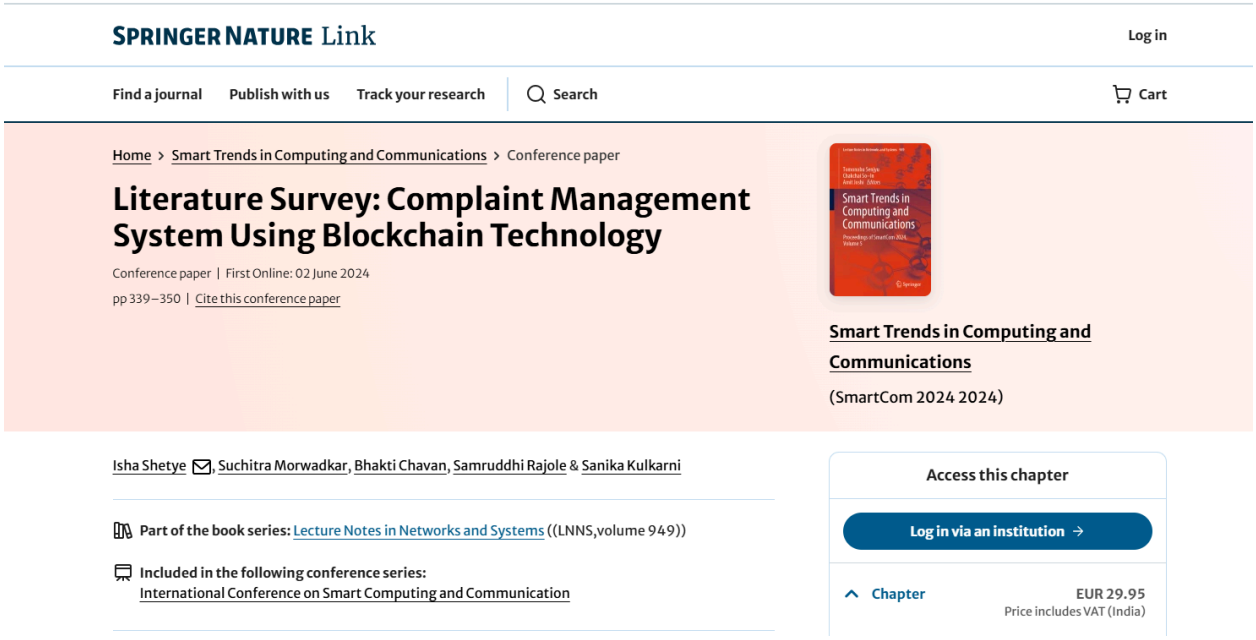
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ChatGPT's Evolution in Reshaping Cognitive Behavioral Therapy

Abstract:
The evolution of ChatGPT has been driven by advancements in Natural Language Processing (NLP), with a transformative impact on various domains. ChatGPT's NLP-driven adaptability enhances accessibility, making CBT tailored to different age groups and genders. It fosters therapeutic conversations and provides self-help resources, empowering individuals on their mental health journey. This paper explores ChatGPT's role in reshaping Cognitive Behavioral Therapy (CBT), focusing on adaptability across age groups and genders and its diverse CBT applications. The paper delves into the mechanics of ChatGPT's response generation and its influence on CBT. Acknowledging limitations and ethical concerns, the paper weighs the positive aspects and challenges posed by ChatGPT. It also proposes future research directions, including emotionally aware ChatGPT models, advanced progress tracking, and diversified datasets. This paper would be a valuable reference for researchers, mental health experts, technology innovators, and policymakers. It offers insights into the profound impact that ChatGPT can have on mental health care. It also underscores the importance of maintaining ethical standards when applying

Banking on AI: Exploring the Transformative Role of ChatGPT in Financial Services

Publisher: IEEE Cite This PDF

Avani Ausekar ; Radhika Bhagwat All Authors

Abstract:
The banking industry has experienced a significant transformation in recent years, primarily fueled by technological advancements and evolving customer expectations. Among these transformative technologies, OpenAI's ChatGPT stands out as a promising tool poised to revolutionize customer engagement in the industry. This paper delves into the multifaceted potential of ChatGPT as a transformative tool for the Banking and finance industry, emphasizing the advantages, difficulties, and fresh insights it can provide to facilitate research. This paper also briefly overviews the security and privacy considerations related to ChatGPT.

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Publisher: IEEE

ISBN Information:

Conference Location: Melbourne, Australia

I. Introduction
The banking, financial services, and insurance industries have assumed a prominent position in embracing AI and machine learning technologies.

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2022 5th International Conference of Computer and Informatics Engineering (IC2IE)
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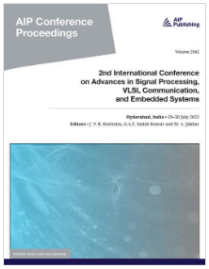
4. DEEP LEARNING FOR MONOCULAR DEPTH ESTIMATION FROM UAV IMAGES
5. DepthNet Nano: A Highly Compact Self-Normalizing Neural Network for Monocular Depth Estimation:Wang;arXiv,2004.08008[cs],2020

Volume 2942, Issue 1
29 February 2024



2ND INTERNATIONAL CONFERENCE ON ADVANCES IN SIGNAL PROCESSING, VLSI, COMMUNICATION, AND EMBEDDED SYSTEMS
29–30 July 2022
Hyderabad, India

Previous Article Next Article

RESEARCH ARTICLE | FEBRUARY 29 2024

Indian sign language recognition using key point extractor and LSTM

Neel Sonawane ; Anagha Kulkarni; Pratiksha Deshmukh
+ Author & Article Information

AIP Conf. Proc. 2942, 020028 (2024)
https://doi.org/10.1063/5.0196776

Sign Languages are used by the deaf and speech impaired people to communicate. Sign language recognition system have been used extensively to bridge the communication gap between them and the mainstream society. This paper focuses on introducing one such system that makes the use of Key point extractor Media Pipe Holistic and Long Short-Term Memory (LSTM). The work of this paper is related to dynamic gestures of the Indian Sign Language. Two different model of 5 and 20 words have been trained. The former achieveda training accuracy of 97.66% and testing accuracy of 89%. The latter achieved a training accuracy of 97.33% and a testing accuracy of 76.92%.

Topics
Speech communication, Artificial neural networks, Cognitive science

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Identifying the Effect of Stacking Sequence on Water Absorption, Mechanical and Fracture Properties of Flax/Glass Hybrid Composites

Conference paper | First Online: 12 October 2023

pp 249–264 | Cite this conference paper

Proceedings of the International Symposium on Lightweight and Sustainable Polymeric Materials...

(LSPM 2023)

Yashwant Munde, Avinash Shinde, Prashant Anerao & I. Siva

Part of the book series: Springer Proceedings in Materials ((SPM,volume 32))

Included in the following conference series:
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Effect on Vibration Characteristics of Fiber Metal Laminates Reinforced with Jute/glass Fibers

Conference paper | First Online: 19 October 2023

pp 105–116 | Cite this conference paper

Advances in Engineering Materials

(FLAME 2022)

Abhijeet Pidge, Aniket Salve, Ashok Mache, Aparna Kulkarni & Yashwant Munde

Part of the book series: Lecture Notes in Mechanical Engineering ((LNME))

Included in the following conference series:
Biennial International Conference on Future Learning Aspects of Mechanical Engineering

Abstract

Fiber metal laminate has outperformed aluminum alloys and fiber-reinforced polymer composites due to its superior mechanical characteristics and reduced density. They are commonly employed in aerospace applications. This paper investigates the damping capacities of fiber metal laminates, including stainless steel, glass fiber, and jute ply, as well as their virgin counterparts. The hand layup method is used to create laminates with

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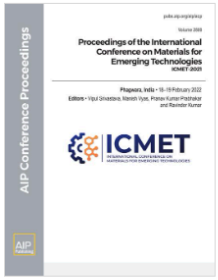

PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON MATERIALS FOR EMERGING TECHNOLOGIES: ICMET-2021
18–19 February 2022
Phagwara, India

RESEARCH ARTICLE | SEPTEMBER 08 2023

Ergonomic analysis and improvement for ease of work of post engine testing activities by using RULA and REBA techniques

Anand K. Bewoor; Harish M. Shinde; Ajit A. Bhosale; Pravin P Patil; S. Kaliappan; S. Socrates

+ Author & Article Information

AIP Conf. Proc. 2800, 020169 (2023)

https://doi.org/10.1063/5.0165413

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The productivity and efficiency of any manufacturing process or assembly line is affected by the performance of a worker. This study aims at reducing the risks, efforts and fatigue related to an employee in an economical way. In this paper, initial ergonomics assessment, suggested improvements and their validation are presented for the disassembly and assembly phase activities; post engine testing. The activity selected was 8.9L engine teardown. Firstly, micro motion study of both the processes was carried out. Required data was then gathered by preparing various charts such as flow process chart, operation process chart, SIMO chart and using REBA-RULA techniques. Ergonomic assessment was done by determining the Risk Priority Score (RPS) using Humantech Software, performing iterations in the SIMO chart and analysing the REBA and RULA scores. As an improvement, a bracket-manipulator system was suggested for the 180° engine rotation process during the teardown activity. For this, the bracket was designed and checked for failures using SolidWorks and Ansys Workbench software respectively. Positive results were obtained during verification of the suggested solutions. The comparison of REBA and RULA scores for initial and

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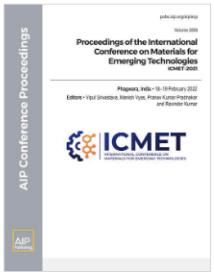

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18–19 February 2022
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RESEARCH ARTICLE | SEPTEMBER 08 2023

Sustainability assessment of tungsten inert gas welding process using grey relational analysis

A. K. Bewoor; Nitin Patil; S. Kaliappan; Pravin P. Patil; Raja Raju; P. Ramanathan; V. A. Kulkarni

+ Author & Article Information

AIP Conf. Proc. 2800, 020232 (2023)

https://doi.org/10.1063/5.0163918

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Tungsten Inert Gas Welding (TIG) process is one of the most commonly employed material joining processes utilized in the various industrial sectors such as marine, ship-building, automotive, aerospace, construction and petrochemicals etc. The increasing pressure on manufacturing sector wants the welding process to be more productive and sustainable in nature. To enhance the performance, the Life Cycle Assessment (LCA) analysis of TIG welding process is done to measure its impact on the environment and scope to characterize the sustainability for the TIG process have been studied. The existing research models used higher range of process parameters with giving less importance to the Weld Bead Geometry. This experiment based investigation considers a lower range of control parameters viz. current, gas flow rate and the dimensional parameters such as groove angle, depth of groove and root gap. The experiments are designed using the Taguchi Method with further sustainability assessment using Grey Relational Analysis (GRA) considering econo
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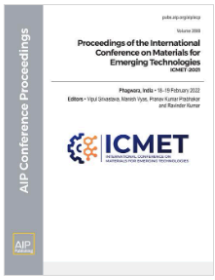

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RESEARCH ARTICLE | SEPTEMBER 08 2023

Development of PLC-based system for lift gate slam platform

Maneetkumar Dhanvijay; Vinay Kulkarni; Nitin Patil; Anand Bewoor

+ Author & Article Information

AIP Conf. Proc. 2800, 020231 (2023)

https://doi.org/10.1063/5.0163916

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There is need to check the durability and reliability of automotive vehicle components and bodies before they are passed for the final manufacturing activities. This paper illustrates design and development of a PLC-based controller for pneumatic lift gate slam platform which is utilized to check structural and functional integrity of vehicle lift gate components. An overview has been carried out for different components whose functionality can be checked using this platform. It also explains pneumatic circuit for developing lift gate slam platform. The proposed automation system involves sequential control of all the processes based on PLC carried out for pneumatic lift gate slam platform. Measurement of door opening and closing velocity, carryout required number of continuous cycle. The Micrologix 1400 Series-A based control system from Allen-Bradley loaded with Ladder logic program has been based on RS-Logix 500 for assessment of proposed control system. The PLC program was emulated RS-Logix emulate-500. Functioning of pneumatic circuit of lift slam platform was s

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RESEARCH ARTICLE | SEPTEMBER 08 2023

Applications of firefly algorithm in hydrology

Jatoth Heeraman; Laxmi A. Bewoor; Anand Bewoor; S. Kaliappan; Pravin P. Patil; S. Socrates

+ Author & Article Information

AIP Conf. Proc. 2800, 020137 (2023)

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Water management is the sophisticated aspect of the earth in these deteriorating situations. Water is the main source of agriculture and it requires certain monitoring action with the latest techniques. There is a large scope of research for the management of water resources worldwide. Hydrology is still a challenging problem having nonlinear functions with a variety of constraints & decision variables. Heuristic methods were proposed which find an approximate solution in reasonable computation time by selecting the solution from a set of feasible solutions and improving the same by applying heuristic function in a trial and error manner. This study is focused on the application of the Firefly Algorithm (FA) in hydrology. The implementation process of FA is discussed in detail in this chapter. Performance of the original FA can be enhanced by hybridization with other evolutionary/ non-evolutionary tools & techniques. The results of FA are found superior.

Topics
Hydrology, Algorithms and data structure, Decision theory

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Effect of Foam Thickness on Two-Wheeler Seat in View of Seat Height Adjustment and Vibration Damping

Conference paper | First Online: 29 March 2024

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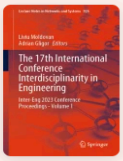

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Ratcheting Fatigue Behaviour of Advanced Structural Materials

Conference paper | First Online: 15 October 2023

pp 311–322 | Cite this conference paper

Proceedings of the International Conference on Metallurgical Engineering and Centenary Celebration

(METCENT 2023)

Prerna Mishra, N. C. Santhi Srinivas, G. V. S. Sastry & Vakil Singh

Included in the following conference series:
The International Conference on Metallurgical Engineering and Centenary Celebration

Abstract

The advanced power generating industries requires high operating steam temperatures and pressures, to attain higher efficiency. This led to development of alloys with superior properties at elevated temperatures. The two alloys under investigation are Modified 9Cr-1Mo steel and Inconel 617 alloy. From the application point of view, the two alloys are used as piping and tubing materials in various components such as steam generator, super heater, re heater and heat exchanger etc. The present investigation deals with the