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- 3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five year
 - Additional information/ Supporting Documents

	teacher	Title of the book/chapter s published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / International	Year of publication	ISBN number of the proceedin	Affiliating Institute at the time of publicatio	publishe
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		Multimed Tools Appl	High capacity reversible data hiding in encrypted images using multi-MSB data hiding mechanism with elliptic curve cryptograph					28087– 28115		
1	Dr. A. S. Kapse	(2023).	У	Multimedia Tools Appl (2023).		International	2023	(2023)		springer
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	e Survey on			Mobile Computing and Sustainable Informatics.					
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	•	Dr. K. H.	Science &	Communications Technologies, vol 126.		https://doi.org/10.1007/978			
	Mining.	Walse	Engineering	Springer, Singapore.	2022	-981-19-2069-1 4			
	Model for Efficient Data		Computer	2022 IEEE International Conference on					
	Storage on	Dr. K. H.	Science &	Blockchain and Distributed Systems Security					
	Public Cloud.	Walse	Engineering	(ICBDS)	2022	ISBN:978-1-6654-2832-3			
	Lightweight Auditable Secure Cloud Storage With								
	Privacy Enabled Data		Computer	2022 IEEE International Conference on					
	Storage	Dr. K. H.	Science &	Blockchain and Distributed Systems Security					
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	Multilingual		Computer	Electronics, Information and Communication					
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4	Mining,	Walse	Engineering	www.ijcrt.org)	2022	ISBN:978-1-6654-3647-2			
	Book Chapter: Utilization of Rice and	Sunil K Deokar	Chemical	https://link.springer.com/chapter/10.1007/978 -981-19-7481-6 8	2023	ISBN978-981-19-7483-0			

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2022-23

1 High capacity reversible data hiding in encrypted images using multi-MSB data hiding mechanism with elliptic curve cryptography High capacity reversible data hiding in encrypted images using multi-...

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Published: 16 February 2023 High capacity reversible data hiding in encrypted images using multi-MSB data hiding mechanism with elliptic curve cryptography	
Priyanka V. Deshmukh [™] , Avinash S. Kapse, V. M. Thakare & <u>Arvind S. Kapse</u>	
<u>Multimedia Tools and Applications</u> 82 , 28087–28115 (2023)	
133 Accesses 1 Altmetric Metrics	
Abstract	

Data-hiding technology plays an important role in fields of the image such as copyright identification and annotation. Predicators may be exploited in RDH in the encrypted image (RDHEI); this has become a research interest in recent years because of the development of cloud computing and a need for content owner privacy. The existing algorithms cannot implement large embedding capacity and good reconstructed image quality simultaneously. Consequently, for secure data image transfer, the

article suggested the High-Capacity Reversible Data Hiding in Encrypted Images (RDH-EI) approach. The original image was pre-processed by the content owner to free up hiding space in the RRBE scheme, following which the image will be encrypted and transferred to the data hider. Asymmetric encryption is considered to be more secure than symmetric encryption as it uses two keys for the process. Initially, to offer authenticity and integrity, Elliptic Curve Cryptography (ECC) is proposed to encrypt, decrypt, and authenticate the cipher image. This requires much shorter key lengths and was highly efficient in the decryption process. Further, the encrypted images are directed to the data hiding process. A considerable amount of data is employed to embed in the image encryption domain to ensure that the embedded data can be extracted error-free. Subsequently, to have high embedding capacity, the research proposed Multi-MSB (Most Significant Bit) data embedding scheme in which secret bits can be directly extracted from the encrypted domain from the pixels without any error. In addition, to retain image quality by employing both reference and context pixels, a near-lossless solution based on the Huffman Coding technique is proposed. With the use of decryption and a data concealing key, the receiver can restore the original image and extract hidden data afterwards. The keys are made in such

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a way that the decryption key cannot be easily deduced from the public encryption key. The experiment was carried out in MATLAB software using a built-in function. The findings reveal that the suggested method outperforms conventional RDH strategies in terms of PSNR and embedding with 3.6 bpp respectively. In addition, the algorithm can resist steganalysis attacks, and demonstrated the effectiveness of the proposed algorithm.

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1: A Comprehensive Survey on Multilingual Opinion Mining.

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A Comprehensive Survey on Multilingual Opinion Mining

<u>Aniket K. Shahade</u> [™], <u>K. H. Walse</u> & <u>V. M. Thakare</u>

Conference paper | First Online: 16 July 2022

324 Accesses

Part of the <u>Lecture Notes on Data Engineering and Communications Technologies</u> book series (LNDECT,volume 126)

Abstract

In a current scenario use of multimedia, gadgets have increased the usage of social websites and the Internet. Twitter, Facebook, Instagram, Telegram, and WhatsApp are the generally used platforms in the Internet community. Sharing reviews, feedbacks, and personal experiences are the most common

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task on social media. Such data is available in an unorganized and immensurable manner on the Internet. Opinion Mining can be carried out on such data available on the Internet. Most of the analyzers are working on the analysis of Chinese and English language sentiments, data available on the Internet is also in different languages which needs to be analyzed. The main purpose of this paper is to discuss the different frameworks, algorithms, Opinion Mining processes, classification techniques, evaluation methods, and limitations faced by the analyzers while bringing off the sentiment analysis on different languages.

Keywords

Sentiment analysis Multimedia Data

Machine learning technique

Deep learning technique Opinion mining

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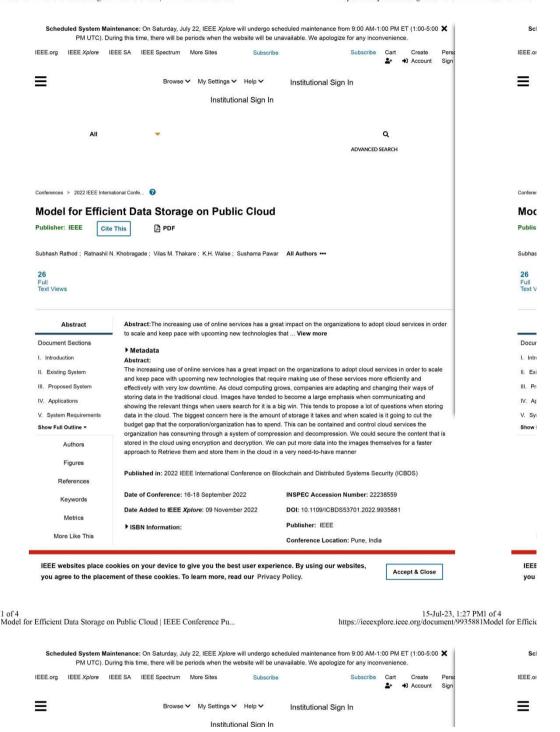
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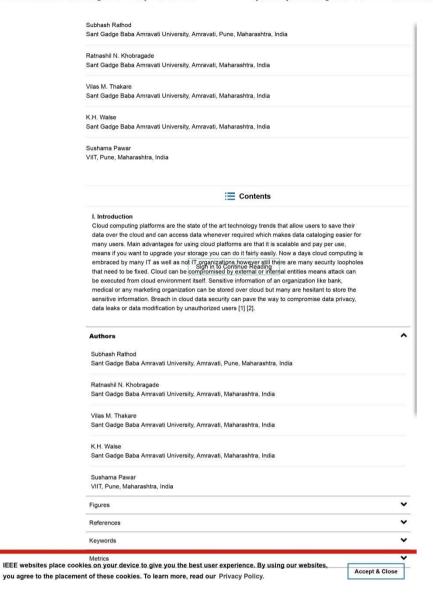
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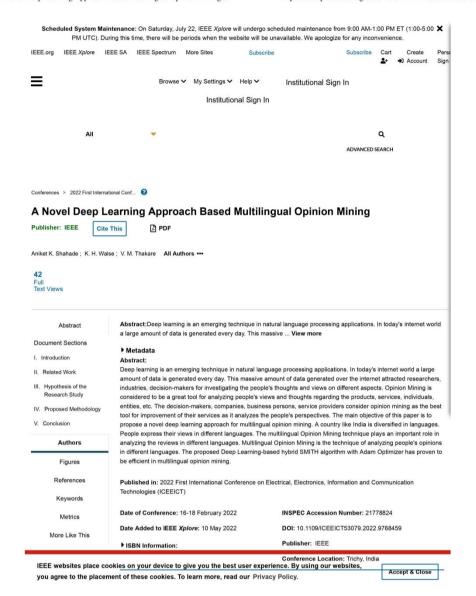


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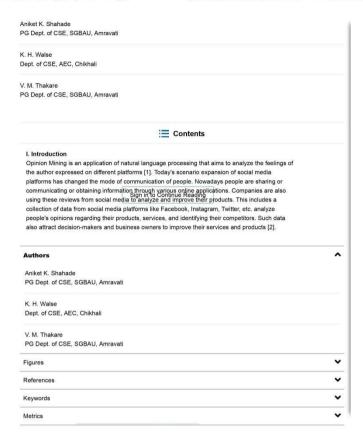
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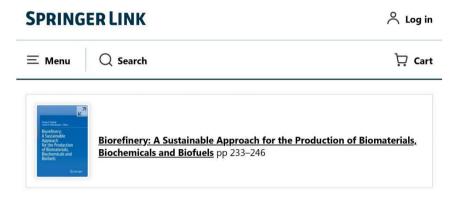
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<u>Home > Biorefinery: A Sustainable Approach for the Production of Biomaterials, Biochemicals and Biofuels > Chapter</u>

Utilization of Rice and Sugarcane Ashes in Wastewater Treatment: A Case Study for Pesticide Removal from Aqueous Solution

Sunil K. Deokar & Pranav D. Pathak

Chapter | First Online: 26 February 2023

125 Accesses

Abstract

Rice and sugarcane are two important food materials used on large scale throughout the world. These food materials are produced in many countries to meet the requirement of the world population. The processing of rice and sugarcane crops in the rice mill and sugar industry generates a huge quantity of biomass mass, namely, rice husk

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and sugarcane bagasse, respectively. These industries have started the utilization of the above biomass as solid fuel in boilers to make the process more profitable. While utilizing the waste biomass to solve the disposal problem, the new waste in the form of biomass ash such as rice husk ash (RHA) and bagasse fly ash (BFA) is generated in million tonnes. Therefore, the RHA and BFA are being applied in different areas to prepare variable products.

These biomass ashes (RHA and BFA) are utilized in the construction industry due to their pozzolanic properties. Another important application is in the preparation of silica-based catalyst, activated carbon, in chemical reactions and adsorption process. Along with metal oxides, RHA predominantly contains silica, whereas BFA contains carbon. Both the ashes possess good properties of adsorbent; therefore, these ashes are applied as adsorbent for the removal of heavy metals, dyes, pesticides, and other chemicals from wastewater. The high-purity silica obtained from rice husk ash is used for the development of catalyst which has shown very fast adsorption with high adsorption capacity for dyes such as brilliant green. The activated carbon produced from BFA is successfully applied as adsorbent for phenol removal. In addition to these, the metals such as zinc, nickel,

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generated, which is a nuisance to the environment

as a solid waste. Sometimes the generated fruit peel waste (FPW) is more than that of consumed part. At present, FPW seems to be a suitable alternative material for the production of many value-added products. However, its sustainability has been not examined. In this regard, the biorefinery concept offers an opportunity to develop a bio-based economy, given the series of value-added products that can be obtained from this facility. Nonetheless, there are major hurdles that lie ahead for the conversion of FPW into products with value added to their full scope. It is necessary to design an appropriate plan and implement the appropriate technology in order to triumph over these obstacles. As a result, the reuse of FPWs has the potential to develop goods that are both beneficial and profitable, effectively generating "wealth from waste."

Keywords

Biorefinery Sustainability

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