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	Authors: B. Suresh Kumar	
1.	Paper Title: Lumbar Spine Image Segmentation using Linked Outlyingness Tree	
	<p>Abstract: Image segmentation is the process of partitioning a digital image into multiple segments. The purpose of image segmentation is to partition an image into meaningful regions with respect to a particular application. The image segmentation is used for various applications such as medical images, satellite images, content based image retrieval, machine vision, recognition tasks and video surveillance etc. Many methods such as compression based methods, thresholding, and clustering has been proposed in literature for segmentations. The clustering methods can be divided into two parts, namely supervised and unsupervised. Supervised clustering involves predefining the cluster size for segmenting whereas unsupervised image segmentation segments by its own cluster values. The spine segmentation method validates cluster extraction and subsequently vertebral image is obtained. The previous methods for segmenting images in the medical field are taking more time and less accuracy of vertebral outputs. In order to overcome the disadvantages a new methodologies proposed. In this proposed work three methods have been implemented, namely lumbar spine image Segmentation using linked outlyingness tree. Supervised image segmentation using LOT, Unsupervised. Comparing each other Lumbar spine image segmentation provides the best solution for medical images. The performance results also proved that the proposed system has better performance over other existing algorithms.</p> <p>Keywords: Computed Tomography (CT), Magnetic Resonance Image (MRI), Linked Outlyingness Tree (LOT), Robust Outlyingness Ratio (ROR).</p> <p>References:</p> <ol style="list-style-type: none"> 1. A.P. Zijdenbos and B.M. Dawant. Brain segmentation and white matter lesion detection in MR images. Critical Reviews in Biomedical Engineering, 22:401–465, 1994. 2. R. Jack, “Brain and cerebrospinal fluid volume: Measurement with MR imaging,” Radiol., vol. 178, pp. 22–24, 1991. 3. R. Meyer, P. H. Bland, and J. Pipe, “Retrospective correction of intensity inhomogeneities in MRI,” IEEE Trans. Med. Imag., vol. 14, pp. 36–41, Feb. 1995. 4. Pham, “An adaptive fuzzy C-means algorithm for image segmentation in the presence of intensity inhomogeneities,” Pattern Recognition Letters, vol. 20, pp. 57–68, 1999. 5. Pham, “Fuzzy clustering with spatial constraints,” in Proceedings of International Conference on Image Processing (ICPR’02), vol. II, New York, 2002, pp. 65–68. 6. H. Zhang, J. E. Fritts, S. A. Goldman, “Image Segmentation Evaluation: A Survey of unsupervised methods”, computer vision and image understanding, pp. 260-280, 2008. 7. Hui Zhang, Jason E.Fritts,Sally A.Goldman “Image segmentation evaluation: A survey of unsupervised methods”,ELSEVIER, pp:260-280, 2007. 8. J. Noordam, W. van den Broek, and L. Buydens, “Geometrically guided fuzzy C-means clustering for multivariate image segmentation,” in Proceedings of International Conference on Pattern Recognition (ICPR’00), vol. 1, 2000, pp. 462–465. 9. Jain, A.K. and Dubes, R.C. Algorithms for Clustering Data, 1988 (Prentice Hall, Englewood Cliffs, New Jersey, USA). 	1-7
2.	Authors: Amrin Mansoori, Ankita Hundet, Babita Pathik, Shiv Kumar	
	Paper Title: Predictive Modeling for Attack Classification using Optimized Naïve Bayes using Weka	
	<p>Abstract: The information security research that has been the subject of much attention in recent years is that intrusion detection systems. Intrusion-detection systems (IDS) intend at detecting attacks against computer systems and networks or, in general, against information systems. In fact, it is difficult to provide efficient IDS and to maintain them in such a secure state during their lifetime and utilization. Intrusion–detection systems have the task of detection of any insecure states. Machine learning in data mining field plays an essential role in the Network Intrusion Detection research area. Although there are several technological advancements in field of IDS still there are challenges. IDS are intended at detecting attacks against computer systems and networks or, in general, against information systems. The problem of developing an ability to detect novel attacks or unknown attacks based on audit data in IDS is still on verge. Also, the classification accuracy is one such inadequacy, the Weka tool is tested for the few machine learning techniques in this work. This paper presents comparison of K-NN, Decision tree, Naïve Bayes based classifiers using Weka tool, for IDS. This paper will provide an insight for the future research. The KDD CUP’99 data set is employed for experiment, result analysis and evaluation. The methods tested based on Detection rate and False Alarm rate.</p> <p>Keywords: Classification, Data Mining, Intrusion Detection System (IDS), Machine Learning techniques, Weka, KDD CUP’99 dataset.</p> <p>References:</p> <ol style="list-style-type: none"> 1. Hua TANG, Zhuolin CAO “Machine Learning-based Intrusion Detection Algorithms” Journal of Computational Information Systems5:6(2009) 1825-1831 Available at http://www.JofCI.org 2. YU-XIN MENG “The Practice on Using Machine Learning For Network Anomaly Intrusion Detection” 2011 IEEE. 3. Chi Cheng, Wee Peng Tay and Guang-Bin Huang “Extreme Learning Machines for Intrusion Detection” - WCCI 2012 IEEE World Congress on Computational Intelligence June, 10-15, 2012 - Brisbane, Australia 4. Naem Seliya , Taghi M. Khoshgoftaar “Active Learning with Neural Networks for Intrusion Detection” IEEE IRI 2010, August 4-6, 2010, Las Vegas, Nevada, USA 978-1-4244-8099-9/10/\$26.00 ©2010 IEEE 5. Kamarularifin Abd Jalill, Mohamad Noorman Masrek “Comparison of Machine Learning Algorithms Performance in Detecting Network Intrusion” 2010 International Conference on Networking and Information Technology 978-1-4244-7578-0/\$26.00 © 2010 IEEE 6. Jingbo Yuan , Haixiao Li, Shunli Ding , Limin Cao “Intrusion Detection Model based on Improved Support Vector Machine” Third International Symposium on Intelligent Information Technology and Security Informatics 978-0-7695-4020-7/10 \$26.00 © 2010 IEEE 7. Mohammadreza Ektefa, Sara Memar, Fatimah Sidi, Lilly Suriani Affendey “Intrusion Detection Using Data Mining Techniques” IEEE 2010. 8. Mahbod Tavallaee, Ebrahim Bagheri, Wei Lu, and Ali A. Ghorbani “A Detailed Analysis of the KDD CUP 99 Data Set” Proceedings of the 2009 IEEE Symposium on Computational Intelligence in Security and Defense Applications (CISDA 2009) 9. Megha Aggarwal, Amrita “Performance Analysis Of Different Feature Selection Methods In Intrusion Detection” international journal of 	8-13

Authors: P. Gowtham Devanoor, B. P. Mahesh Chandra Guru, M. Dileep Kumar, Bhanupratap A.

Paper Title: Social Media for Social Networking of Dalits

Abstract: The importance of social networks lies in their value as social capital. Social networking has become a new platform for collaborative endeavors in all walks of life. The structural pattern of relations of a social network can have significant impact on how actors actually behave. The social networks are developed for the development of identity and peer relationships in modern times. The emerging science of social networks truly has transformative power. There is strong evidence to suggest that social networks can improve the socioeconomic well-being of communities. Dalits have been widely using social networking sites to generate debates about the casteism and issues related to it. Social learning and participation are crucial for the Dalits since they need aggressive preparation and effective practical strategies to secure their share from the wider society. The social media reconstructs the debates around social justice, inclusive development and sustainable development related issues and concerns of Dalits.

Keywords: importance, platform, Network, developed, transformative power, Dalits.

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4.	<table border="1"> <tr> <td>Authors:</td> <td>Roopesh Kumar Kurmi, Harendra Singh</td> </tr> <tr> <td>Paper Title:</td> <td>Analyze the Performance of Image Compression Techniques using Hybrid and Swarm Optimization Methods</td> </tr> <tr> <td colspan="2"> <p>Abstract: Every day, a massive amount of information is stored, processed, and transmitted digitally. The primary goal of image compression is to minimize the number of bits required to represent the original images by reducing the redundancy in images, while still meeting the User defined quality requirements. Uncompressed images normally require a large amount of storage capacity and transmission bandwidth. In this paper we proposed a hybrid image compression technique for the image which is better in the terms of result by measuring performance evaluation parameters to increase the value of PSNR; our empirical results study shows that hybrid methods are better than existing techniques.</p> <p>Keywords: Discrete Wavelet Transform (DWT), discrete Cosign Transform (DCT), PSNR, RGB, HVS, Image Compression.</p> <p>References:</p> <ol style="list-style-type: none"> Shruthi K N, Shashank B M, Y.SaiKrishna Saketh, Dr. Prasantha .H.S and Dr. S.Sandya “Comparison Analysis Of A Biomedical Image For Compression Using Various Transform Coding Techniques”, IEEE, 2016, Pp 297-303. V. Sunil Kumar and M. Indra Sena Reddy “Image Compression Techniques by using Wavelet Transform”, Journal of Information Engineering and Applications, 2012, Pp 35-40. Maneesha Gupta and Dr.Amit Kumar Garg “Analysis Of Image Compression Algorithm Using DCT”, IJERA, 2012, Pp 515-521. 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From the optimized results, it has been found that the cost of MSW collection and the pollutant emissions (CO₂, CO, NO_x, PM, HC) are respectively reduced by 15.8 % and 16 %.

Keywords: Municipal solid waste management, Route optimization, Environmental modelling, Dynamic modelling, Agent-based model Equation-based model, Vehicle routing model.

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