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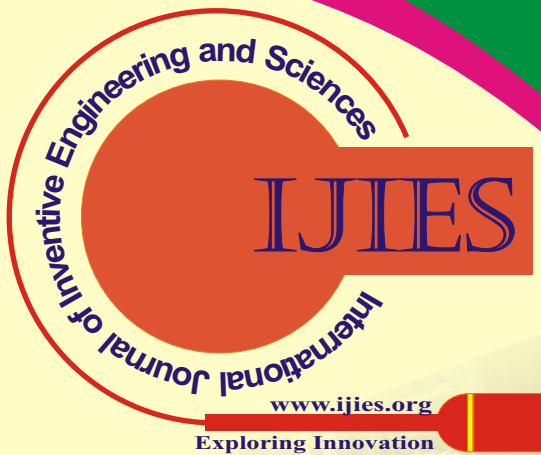
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	<b>Authors:</b>	M. Devaraju, A. V. Narasimha Rao,	
	<b>Paper Title:</b>	Performance Analysis of Energy Efficient S- Leach under Data Compression Technique to Improve Network Life Time by Using Ns-2.35	
1.	<p><b>Abstract:</b> Wireless Sensor Networks (WSN) have increased expanding consideration from both the examination network and genuine clients. The productive utilization of the energy source in a sensor node is a vital foundation to delay the valuable existence of the wireless sensor network. Wireless sensor systems have investigated numerous new protocols planned explicitly for sensor systems where the thought of power is vital. The best significance, given the various leveled directing conventions reliant on bunching, has better flexibility. Since the sensor hubs are for the most part battery-worked gadgets, the basic viewpoints that must be tended to are the means by which to decrease the power utilization of the nodes, with the goal that the system's network life can be stretched out to sensible times. There are a few protocols of hierarchical routing of low power utilization, among which is the acclaimed LEACH protocols, we copy LEACH in NS2 and explore the execution of LEACH similar to vitality, execution and system life.</p> <p><b>Keywords:</b> LEACH, Drain, various leveled directing calculations, gathering, Wireless sensor systems</p> <p><b>References:</b></p> <ol style="list-style-type: none"> <li>1. Nitaigour P. Mahalik, "Sensor Networks and Configuration: Fundamentals, Standards, Platforms, and Applications", Chapter 1, 7 and Spinger, 2007.</li> <li>2. Jamal N. Al-Karaki, Ahmed E. Kamal. "Steering Procedures In WirelessSensor Networks: A Survey", IEEE Wireless Communications,December 2004.</li> <li>3. A. Manjeshwar and D. Agrawal, "High schooler: a directing convention for improved proficiency in remote sensor systems", In Proceedings fifteenth International Parallel and Distributed Processing Symposium, pp. 2009– 2015. 23– 27 April 2001.</li> <li>4. V. Rodopl, T.H. Ming, "Least vitality portable remote systems", IEEE Journal of Selected Areas in Communications, Vol. 17, No. 8, pp. 1333-1344, 1999.</li> <li>5. W. R. Heinzelman, A. Chandrakasan, and H. Balakrishnan, "Vitality Efficient Communication Convention for Wireless Micro Sensor Networks", Proceedings of IEEE HICSS, Jan 2000.</li> <li>6. P.T.V. Bhuvanewari and V.Vaidehi, "Enhancement techniques incorporated in LEACH- A Survey", Indian Journal of Science and TechnologyVol.2 No 5 (May 2009)</li> <li>7. Liu Lintao Yang Ping, " Routing Protocols Simulation Based on NS2", Ship Electronic Engineering [J], 2008.4 Vo.1 28 No. 4:132-134</li> <li>8. Lan Tien Nguyen, Xavier Defago, Razvan Beuran, Yoichi Shinoda, "An Energy Efficient Routing Scheme for Mobile Wireless Sensor Networks", IEEE ISWCS 2008.</li> </ol>		1-6
2.	<p><b>Authors:</b></p> <p><b>Priyanka Tayde, Durgesh Mishra</b></p> <p><b>Paper Title:</b></p> <p><b>Descriptive model for phase prediction &amp; ML for laparoscopic surgery</b></p> <p><b>Abstract:</b> In area of non-invasive diagnosis of endometriosis is now accurately obtained by laparoscopic surgery. It involves the excision of the endometriosis, scar tissue and developed adhesions. In this surgery doctor visualize abdominal-pelvic region via laparoscope, telescopic lens, light sources and video camera.In our paper we demonstrate a system that uses descriptive model for phases that are generated from segmented form of video through extended use of corsets with effective non-monotonic phase sequences, which is an interactive model for visual summary of laparoscopic and robot-assisted surgeries. Such model may reduce learning curves in the OR for junior surgeons with limited access to complex laparoscopic procedures as a primary operator. In this procedure we are using a combination of SVM (Support Vector Machine) and HMM (Hidden Markov Model).We generated a formal descriptive model of surgical phases which is required for laparoscopic surgery for better understanding of surgical training and to improve patient outcomes. We used descriptive model of machine learning for high accuracy in Phase predictions and bag-of-words (BOW) model for final frame representation. We evaluated our system in various experiments in real time operating environment of surgery room as well as collected data sets.</p> <p><b>Keywords:</b> SVM; HMM; BOW, PRONET; Index Terms: About four key words or phrases in alphabetical order, separated by commas.</p> <p><b>References:</b></p> <ol style="list-style-type: none"> <li>1. M. Allan, P.-L. Chang, S. Ourselin, D. J. Hawkes, A. Sridhar, J. Kelly, and D. Stoyanov. Image based surgical instrument pose estimation with multi-class labelling and optical flow. In International Conference on Medical Image Computing and Computer-Assisted Intervention, pages 331–338. Springer, 2015.</li> <li>2. T. Blum, H. Feußner, and N. Navab. Modeling and segmentation of surgical workflow from laparoscopic video. In International Conference on Medical Image Computing and Computer-Assisted Intervention, pages 400–407. Springer, 2010.</li> <li>3. E. M. Bonrath, N. J. Dedy, L. E. Gordon, and T. P. Grantcharov. Comprehensive surgical coaching enhances surgical skill in the operating room: a randomized controlled trial. <i>Annals of surgery</i>, 262(2):205– 212, 2015.</li> <li>4. L. Bouarfa, P. Jonker, and J. Dankelman. Surgical context discovery by monitoring low-level activities in the or. In MICCAI workshop on modeling and monitoring of computer assisted interventions (M2CAI). London, UK, 2009.</li> <li>5. L. Bouarfa, P. P. Jonker, and J. Dankelman. Discovery of highlevel tasks in the operating room. <i>Journal of biomedical informatics</i>, 44(3):455–462, 2011.</li> <li>6. Anderberg, M.R. (1973), Cluster Analysis for Applications, New York: Academic Press, Inc.</li> </ol>		7-10

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**Paper Title:** Emotion Recognition System Using Local Binary Pattern

**Abstract:** The Facial Emotion Recognition system is an method of recognizing the emotions of a person. In this method image that is being captured is compared with dataset that are available in the database and then after that the emotion of the image is being recognized, and the emotion that are recognized are displayed with the help of machine on the screen of the computer. This system is based on image processing and machine learning. For designing a robust facial feature descriptor, we apply the Local Binary Pattern. Local Binary Pattern is a simple and effective operator which can labels the pixels of a picture by comparing the neighborhood of every pixel and store the result as a binary number. The histogram will be formed by using the operator label of LBP. The objective of this paper is to introduce the use and applications of facial emotions and expressions. In day to day conversation facial emotions play important role, It is a non-verbal form of communication. There has been many big researches enhance the detection of human emotions using computers and machines. In this paper, we include introduction of emotion recognition system, phases of emotion recognition system and implement the whole part of it.

3.

**Keywords:** Facial Expression, Local Binary Pattern, Facial Emotion Recognition

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	<p><b>Paper Title:</b> Analysis of Student Academic Performance using Regression Methods</p>	
<p>4.</p>	<p><b>Abstract:</b> In the educational industry, student’s early performance prediction is important so that strategic intervention can be planned before students reach the final semester. With rapid change in the technology and the lot innovative software, it has become quite convenient to analyze the performance of the student. Machine Learning plays an important role in today’s world and it helps the educational institutions to predict and make decisions related to student’s performance. The scope of this paper is to predict the student marks through desktop application. In this project, the data of our institute students is taken and regression algorithms are applied to predict the academic status of the student.</p> <p><b>Keywords:</b> Desktop application, Machine Learning, Regression algorithms, Student’s performance</p> <p><b>References:</b></p> <ol style="list-style-type: none"> <li>1. Sadiq Hussain; Educational Data Mining and Analysis of Students Academic Performance using WEKA; Indonesian Journal of Electrical Engineering and Computer Science, Volume 9, No. 2, February 2018.</li> <li>2. Anal Acharya and Devadatta Sinha; Early Prediction of Student Performance using Machine Learning techniques; International Journal of computer Applications(0975-8887) volume 107, No. 1, Dec 2014.</li> <li>3. Strecht, P. et al; A Comparative study of Classification and Regression Algorithms for modelling Students Academic Performance; Processing’s of the 8<sup>th</sup> International Conference on educational data mining; 2015, p.3</li> <li>4. Anuradha, C. and T. Velmurugan; A Comparative Analysis on the evaluation of classification Algorithms in the prediction of students performance; Indian Journal of Science and Technology, 2015, 805, p.12.</li> <li>5. Surbhi Agarwal; Using Data Mining classifier for predicting student’s performance in UG Level; International Journal of computer Applications(0975-8887) volume 172, No. 8, August 2017.</li> <li>6. Ahmad. F, N.H. Ismail; the Prediction of Student’s Academic Performance using classification data mining techniques; Applied Mathematical Sciences, 2015, p.12.</li> <li>7. Felicia Nazareth, What are the challenges you face as a student and how to overcome them? Available: <a href="http://www.alighthoughts.com/what-are-the-challenges-you-face-as-a-student/">http://www.alighthoughts.com/what-are-the-challenges-you-face-as-a-student/</a></li> <li>8. Will McGuinness, The Benefits and the Limitations of Machine Learning in Education. Available: <a href="https://www.gettingsmart.com/2018/02/the-benefits-and-the-limitations-of-machine-learning-in-education/">https://www.gettingsmart.com/2018/02/the-benefits-and-the-limitations-of-machine-learning-in-education/</a></li> <li>9. A.I. and Machine Learning and its impact on Education Technology. Available: <a href="https://theknowledgereview.com/machine-learning-impact-education-technology/">https://theknowledgereview.com/machine-learning-impact-education-technology/</a></li> </ol>	<p>15-18</p>