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1.

Authors: Varsha Vilas Doijad, A. K. Gupta

Paper Title: Customization of Project Planning and Its Execution

Abstract: Project Planning is one of the key functions of Project Management for timely and successful implementation of any project. The time frame available for any industrial project to be executed is very less and to make the matter more difficult the statutory clearance & approvals from government often take longer than expected thus further reducing the available time. This study contributes to project management needs some flexibility during project execution to adjust to emerging needs of the project and to take advantage of increasing knowledge about the nature of the project and the project management becomes flexible, efficient and effective. The purpose of these project management guidelines is to organize, plan and control the projects. They are designed to help to maximize the potential for the projects to succeed by helping the address each element of the project at the right time and to the right level of detail for the size and complexity of the project. Thus the understanding of project planning and its execution in construction is an important part of project management. The priority of success factors identified in this research is not reflected in the literature because in this research, success was defined more broadly than just delay. For example, organizational planning was ranked the most important factor in the literature, but in this research it was ranked the second most important success factor. This discrepancy in the ranking of success factors could be explained in a number of ways. First, this work limited the number of success factors to seven, which may have affected their priority. Secondly, the work focused on the delay factors relevant to the building construction process, whilst the literature mostly identified success factors based on overall construction projects, or on a particular segment of a construction project such as productivity, quality or procurement.

Keywords: Building construction process, Project Management, Success factors, Productivity, Procurement.

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2.

Authors: Obair Bashir Bhat, Birinderjit Singh

Paper Title: Reduction of PAPR by Hybridization of The Methodologies First by Applying SLM Technique and Then Clipping and Filtering on The Signal

Abstract: Communication is one of the important facet of life. With the growth in age and its growing demands, there has been accelerated advancement in the field of communications. Signals, at the beginning were sent in the analog domain, are being mailed supplementary in the digital domain these days. For better transmission, even single – carrier waves are being replaced by multi – carriers. Multi – carrier systems like CDMA and OFDM are now – a – days being appliances regularly. In the OFDM system, installed equilaterally, sub – carriers are used to carry the data from the transmitter end to the receiver end. Subsistence of guard band in this system accords with the problem of ISI and noise is minimized by larger number of sub – carriers. But the large Peak – to – Average Power Ratio of these signal have some undesirable effects on the system. in this thesis we have concentrated more on learning the basics of an OFDM System and have undertaken various methods to reduce the PAPR in the system so that this system can be used more commonly and effectively.

Keywords: CDMA, OFDM, PAPR, Carriers, ISI.

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3.	**Authors:**	**B. Ghorbani, M. Bazaz**
	Paper Title:	**Assessment of Rough Bed Length Variations on the Hydraulic Jump Features**
	Abstract: One of the practical applications of hydraulic jump is to dissipate in energy water flowing over hydraulic structures and thus prevent scouring downstream from them. In the recent years, it was found that the roughness of stilling basins can reduce the dimensions of hydraulic jump features. The objective of this study was to find out how the rough bed length effects on these features. To find the effect of roughness length on jump properties, 5 lengths of roughness and 4 types of roughness for 4 different Froude numbers were investigated. Four extra tests were performed on the smooth bed as witness to understand and compare the jump features on the same conditions. The results showed that the jump features such as jump length and sequent depth declines and shear stress increases as the roughness length increases to a value equals to effective length. The effective length obtained in this research was 2.5 times of sequent depth on the smooth bed. Overall, the mean sequent depth and hydraulic jump length on a rough bed reduced by 14 and 29 percent respectively and shear stress increased by 8.11 times compare to that of the smooth bed. **Keywords:** Effective length, hydraulic jump, jump length, rough bed, sequent depth. **References:** 1. Abbaspour, A., Farsadizadeh, D., Ghorbani, M.A., "Estimation of hydraulic jump on corrugated bed using artificial neural networks and genetic programming,," Water Science and Engineering, 2013, 6(2), 189-198. 2. Abbaspour, A., Hosseinzadeh Dalir, A., Farsadizadeh, D. Sadraddini, A.A., " Effect of sinusoidal corrugated bed on hydraulic jump characteristics,". Applied Sciences, 2009, 9(11):2045-2055. 3. Azizah, G., Yousif N. Mostafa S., "Hydraulic jump on new roughened beds," Asian Journal of Applied Sciences, 2012, 5 (2): 96-106. 4. Ead S.A., Rajaratnam, N., " Hydraulic jumps on corrugated bed. Hydraulic Engineering ," 2002, 128(2):656-663. 5. Izadjoo F., Shafai Bejestan, M.," Corrugated bed hydraulic jump stilling basin,". Applied Sciences, 7(8):1164-1169. 6. Rajaratnam, N., 1968. Hydraulic jump on rough bed. 2007, Trans. Eng. Inst. Canada 11:18. 7. Tokyay N.D., " Effect of channel bed corrugations on hydraulic jumps," EWRI. Water & Environmental Resources Congress. Anchorage. Alaska. USA. 2005. 8. Chow V.T., "Open Channel Hydraulics," McGraw-Hill, New York, 1959. 9. USBR., " Design of small dams," Denver. USA, 1987. 10. Sun Z.H. and Ellayn A., 2012. Effect of prismatic elements as bed roughness on hydraulic jump characteristics International Journal of the Physical Sciences, 2012, 7(17): 2607 – 2615.	**14-20**
4.	**Authors:**	**Shivani Agrawal, D. Srinivasa Rao**
	Paper Title:	**An Efficient Cluster Head Election Algorithm for Adaptative Network**
	Abstract: A wireless sensor network is a distributed real-time network configuration. The designing of a wireless sensor network should be formulated with keeping following terms in consideration such as the systems is completely ad-hoc and works with wireless channel, have limited power and with dynamically changing sets of resources. Due to this the network performance is depends on their power consumption and efficient resource consumption. In such kind of network the mobility added advantages but the mobility sometimes causes the performance losses thus network clustering techniques are helps to improve the resource utilization. Thus the proposed work indented to investigate the clustering techniques for wireless sensor network. The proposed work is an en efficient cluster head election algorithm for adaptive network. That techniques have two major disadvantages first there are no limits of connections for cluster head thus high load on cluster heads and Second during the load frequently loss of energy. In order to resolve such issue in network a new technique of cluster head selection is suggested in this proposed work. The proposed technique invigilates the nodes energy and also implements the load balancing of cluster head for improving the performance of network. **Keywords:** Wireless sensor network, clustering, cluster head election. **References:** 1. AnupamaSahu, Eduardo B. Fernandez, MihaelaCardei and Michael VanHilst, "A Pattern for a Sensor Node", Department of Computer and Electrical Engineering and Computer Science Florida Atlantic University, Boca Raton, FL 33431 2. Mohammad MamunElahi, Mohammad Mahfuzul Islam, "A Distributed Neighbor Discovery Based Approachfor Cluster Head Selection in Wireless SensorNetworks", 2013 International Conference on Electrical Information and Communication Technology (EICT)2013 IEEE 3. Luis Javier GarcíaVillalba, Ana Lucila Sandoval Orozco, Alicia Triviño Cabrera and CláudiaJacyBarenco Abbas," Routing Protocols in Wireless Sensor Networks", Int.Journal of Sensors,Vol.9,pp. 8399-8421 4. K. Akkaya and M. Younis, "A Survey of Routing Protocols in Wireless Sensor Networks", in the Elsevier Ad Hoc Network Journal, Vol. 3/3 ,pp. 325-349, 2005 5. A. Abbasi, M. Younis, "A survey on clustering algorithms for wireless sensor networks, "in Elsevier Computer Networks Computer Communications, vol. 30, pp. 2826-2841, October 2007. 6. O. Younis, M. Krunz, S. Ramasubramanian, "Node clustering in wireless sensor networks: recent developments and deployment challenges," IEEE Network, vol. 20, pp. 20-25, May 2006. 7. G. Nivetha, "Energy Optimization Routing Techniques In Wireless Sensor Networks" ,Volume 2, Issue 7, July 2012. 8. Jamal N. Al-Karaki, Ahmed E. Kamal, "Routing techniques in wireless sensor networks : A Survey", IEEE wireless communications volume 11, pp.6-28, December 2004. 9. Lindsey, S.; Raghavendra, C.S. PEGASIS: Power-Efficient Gathering in Sensor Information Systems. In Proceedings of the Aerospace Conference, Big Sky, MT, March, 2002; pp. 1125–1130.	**21-24**
	Authors:	**Nitish M. Patil, V. G. Khurd**
	Paper Title:	**Utilization of Waste Plastic in Road Construction**
	Abstract: Now days, the steady increment in high traffic intensity in terms of commercial vehicles, and the significant variation in daily and seasonal temperature put us in a demanding situation to think of some alternatives for the improvisation of the pavement characteristics and quality by applying some necessary modifications which shall satisfy both the strength as well as economical aspects. Also considering the environmental approach, due to	

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excessive use of polythenes in day to day business, the pollution to the environment is enormous. Since the polythenes are not biodegradable, the need of the current hour is to use the waste polythene in some beneficial purposes. In present study various percentages of polythene are used for preparation of mixes with a selected aggregate grading. Marshall Properties such as stability, flow value, unit weight, air voids are used to determine optimum polythene content for the given grade of bitumen.

Keywords: Waste Plastic, pavement, Marshall Stability.

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6.

Authors: **Abhishek Kumar, Anuranjan Misra**

Paper Title: **A Review of Security and Data Hiding Techniques**

Abstract: Steganography is defined as the study of invisible communication. Steganography usually deals with the ways of hiding the existence of the communicated data in such a way that it remains confidential. It maintains secrecy between two communicating parties. In image steganography, secrecy is achieved by embedding data into cover image and generating a stego-image. There are different types of steganography techniques each have their strengths and weaknesses. In this paper, we review the different security and data hiding techniques that are used to implement a steganography such as LSB, ISB, MLSB.

Keywords: LSB, ISB, MLSB, Steganography.

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Authors: **Vivek Kumar, Anuranjan Misra**

Paper Title: **Survey of Imperative and Object Oriented Quantum Computer Programming Languages**

Abstract: In the academic world a variety of languages are studied and used. But with the exception of a few applications, most languages utilized for commercial applications are written in imperative and object oriented languages. A partial list of these languages includes many that would be familiar to any commercial developer: Visual Basic, C#, Java, Python, Fortran, Cobol, and so on. For the power of a quantum computer to be utilized economically in commercial applications, the programming must be easy for existing commercial developers to learn and utilize. This is best done by piggy backing off of the languages and techniques they are already familiar with- this means that successful quantum languages for existing commercial developers will likely be related to one of more of these languages, or quantum frameworks (libraries) for these languages. It should be pointed out that the popularity of languages changes with time, so as new languages come into popularity their potential for quantum computing also needs to be kept in mind. Many of today's popular languages were not designed to easily take advantages of multiple cores or processors. Consequently it is quite feasible that other languages that take advantage of these parallel processing capabilities will rise in popularity in the near future and be excellent candidates extending to carry out quantum computing.

Keywords: C#, Java, Python, Fortran, Cobol, Visual Basic, libraries.

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