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1.

Authors: G Dinesh, C. K Aravind Raj, S. Muthu Saravanan, M Tamil Thendral

Paper Title: Cost Effective Resource Scheduling for Infrastructure as a Service (IaaS) in Cloud Computing

Abstract: Resource scheduling assigns the precise and accurate task to CPU, network, and storage. The aim behind this is the extreme usage of resources. However, well organized scheduling is needed for both cloud providers and cloud users. We propose a cost effective Resource scheduling algorithm that minimizes the utilization cost of the resources while meeting the deadline in cloud computing environment. we are calculating processing cost based on MIPS (Machine Instruction Per Second), For Memory (RAM) and Bandwidth based on MBPS(Megabytes Per Second) and For storage is based on MBs consumed to store the data. Our proposal considers all the essential characteristics of the cloud as well as VM performance variation and acquisition delay.

Keywords: Resource management, IaaS cloud, Resource scheduling, Resource discovery, Resource allocation.

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2.

Authors: M. Prabhu, R. Rathish, Amal .P.V, Balakrishnan, Christopher. J, Gokul Nath

Paper Title: Bicycle Operating on Compressed Air by Inversion of Slider Crank Mechanism

Abstract: This paper describes the working of a cycle which works on pneumatic power. A pneumatic cycle uses compressed air as a source of energy for locomotion. In this system a single acting pneumatic cylinder is operated as a slider crank mechanism which converts the linear reciprocation of the cylinder piston rod into oscillatory motion of the driver crank about the pinion shaft. The Hybrid Bicycle can either be pedaled manually or be run on compressed air. Compressed air is used to turn the real wheel through a slider crank mechanism via a chain and sprocket. This ensures that the pneumatic piston expands for half the revolution and contracts for the other half. A push button valve actuates this mechanism and a flow control valve is used for The actuation of the pneumatic piston used in the slider crank mechanism is controlled by a 5/2 pneumatic directional control valve which in turn is actuated by a push button through cam and follower arrangement connected to the crankshaft. speed control.

Keywords: Pneumatic Cylinder, Sprocket, Solenoid Valve, Pressure Gauge, Slider Crank Mechanism, compressed air

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3.

Authors: R. Sateesh, R. Rathish, M. Arunkuma R, P. Balakrishnan, B. Dhilip Kumar, S. Hariharan, M. Asok Raj Kumar

Paper Title: Model Power Glider for Economic Transportation

Abstract: The venture is outline and manufacture of force lightweight plane for financial transportation. A lightweight flyer as a lighter than air ship that is bolstered in flight by the dynamic response of the air against its lifting surface ; all lightweight planes adjust to the streamlined rule that make flight conceivable. The lightweight plane is scholarly test joined with the calm and excellence of flying high over the earth are two of the many reasons that individuals both youthful and old get snared on flying lightweight planes .Transportation constitutes nearly 20% of household expenditures, 30% of greenhouse gas (GHG) emissions, and 70% of petroleum utilization. From travel time funds to occupation creation, pay development to property estimation changes, engine vehicle collides with air quality and clamor impacts. The power lightweight flyer use to diminish the time in making a trip and simple to achieve the goal with no deterrent.

Keywords: Para engine, Para lightweight plane, Altimeter, Two step strategy, vario meter.

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4.

Authors:	**N. Poonguzhali, B. Punitha, J.Ashwini Mega, G. Thamizamudhu**
Paper Title:	**Convolutional Neural Network and Adaptive Dictionary Learning for Brain Tumour Cell Detection**

Abstract: In this paper, we propose an efficient brain tumor detection method and an automatic segmentation method, which can detect tumor and locate it in the brain MRI images. Automatic and reliable segmentation methods are used in order to manage large spatial and structural variability among brain tumors. Also, some pre-processing steps are used for tumor detection purpose. The automatic segmentation method is based on convolution neural networks. We present an automatic cell detection framework using sparse reconstruction and adaptive dictionary learning. The automatic cell detection results are compared with manually annotated ground truth and other state-of-the-art cell detection algorithms.

Keywords: Cell detection, MRI images.

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5.

Authors:	**Julius Murumba, Elyjoy Micheni**
Paper Title:	**Social Media Integration into Problem Based Learning in Universities**

Abstract: The current generation of students in universities is made up of digital natives who prefer to use social media to socialize and interact. Many Universities have introduced Problem Based Learning (PBL) and appears to be of growing interest particularly where such learning requires computer supported collaborative working. This article examined the current state of problem based learning in Kenyan universities and investigated the social networking technologies frequently used, factors influencing integration of social networks into PBL and challenges faced. The study is carried out through an examination of scientific research papers in journals and conference proceedings, and from online journals and reports. The paper concludes that integration of social networking technologies into PBL is necessary to enable use of real world problems or situations as a context for learning. The paper recommends that Institutional leaders should recognize the opportunities that social media and the Internet offer to problem based learning and develop supportive policies, and academic members of staff need to provide an educational context that enables students to integrate social media academically, especially in PBL

Keywords: Social Media, Problem Based Learning, Universities.

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6.	**Authors:**	**Panchal Anklesha, Reddy Neha, Thakare Apurva, V. P. Mulik**

	Paper Title:	**Segway- Transporter**
	Abstract: This project describes the design and fabrication of Segway transporter vehicle. The Segway is based on the principle of inverted pendulum that will keep an angle of Zero degrees with vertical at all times. The Segway is an intelligent vehicle which uses accelerometer to detect the motion of wheels, so that rider can accelerate, brake or steer the vehicle. This Segway is eco-friendly industrial transporter which carries load upto100kg including rider and load in trolly attached at front end. This kind of vehicle is interesting since it contains a lot of technology relevant to an environmentally friendly and energy efficient transportation industry. This thesis describes the development of a similar vehicle from scratch, incorporating every phase from literature survey to planning, design, vehicle construction and verification. The main objective of the project is the cost reduction of existing system with added user interface of real time clock, load in the trolley, direction and battery level indicator. The rider also gets warning with alarm on low battery .The rider controls are supposed to be natural movements leaning forward, backward and right-left; tilting of the handlebar and switch buttons also. **Keywords:** AVR Atmega 328, Accelerometer, RTC, LCD Display, DC Motor, Motor Driver. **References:** 1. W. Bradley Knox, Juhyun Lee, and Peter Stone;Person Recognition on a Segway Robot: A Video of UT Austin Villa Robocup@Home 2007 Finals Demonstration; 2008 IEEE International Conference on Robotics and Automation Pasadena, CA, USA, May 19-23, 2008 2. Jason Fleischer, BotondSzatm´ary, Donald Hutson, Douglas Moore, James Snook, Gerald M. Edelman, Jeffrey Krichmar; A neurally controlled robot competes and cooperates with humans in Segway; Proceedings of the 2006 IEEE International Conference on Robotics and Automation Orlando, Florida - May 2006 3. B. Browning, P. Rybski, J. Searock, and M. Veloso, “Development of a soccer-playing dynamically-balancing mobile robot,” ser. Proc of the IEEE Intl Conf on Robotics and Automation, 2004, pp. 1752–1757. 4. B. Szatm´ary, J. Fleischer, D. Hutson, D. Moore, J. Snook, G. M.Edelman, and J. Krichmar, “A Segway-based human-robot soccer team,”inIEEE International Conference on Robotics and Automation, 2006,this volume, poster submission. 5. P. J. Besl and N. D. McKay,A Method for Registration of 3-D Shapes, IEEE Transactions on Pattern Analysis and Machine Intelligence, Vol. 14, No. 2, pp. 239-256, 1992.	**26-28**