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Paper Title	PERFORMANCE ANALYSIS OF VARIOUS CRANES OPERATION SYSTEM MODELLING
Authors & Affiliation	Sudhir Verma 1 1 <mark>M.te</mark> ch scholar Rabindranath Tagore University, Bhopal Dr. Swapnil Kumar Singh2 2Assistant Professor Rabindranath Tagore University, Bhopal
Abstract & Keyword	Abstract The thesis presents a performance analysis of various cranes operation system modeling. The Cranes at the port are generally used for loading and unloading of heavy or stroppy loads/vessels on and off ships. Performance of any system could be gauged in terms of its reliability and availability. Four years maintenance data of a particular crane has been collected. The values of different failure / repair / replacement rates are estimated from the data to be used in this analysis. The crane fails due to the failures which are repairable (minor electrical or mechanical failure) and the failures where only replacement is possible (major electrical or mechanical failure). An inspection is carried out to identify the type of the electrical or mechanical failure. The performance analysis of the crane has been carried out and as a result, measures of cranes effectiveness such as mean time to crane failure and crane availability are estimated numerically by using semi-Markov processes and regenerative point techniques. Keywords: crane operation, performance analysis, inspection, failure of system, failures, repairs, Semi – Markov, regenerative processes.
Paper Download Link	https://ijemmr.co.in/wp-content/uploads/2024/02/ijemmr jan 2024 page number.pdf
Paper Title	PERFORMANCE ANALYSIS OF 4 STROKE DIESELENGINEWITH BIO-OIL AND BIODIESELBLENDS
Authors & Affiliation	Brajesh Kumar 1 1M.tech scholar Rabindranath Tagore University, Bhopal Dr. Rahul Kumar Singh2 2Associate Professor Rabindranath Tagore University, Bhopal
Abstract & Keyword	Abstract Increasing of fuel prices, depleting fuel reserves and the burden of imported petroleum products on developing countries like India are forcing the world to look for alternatives. Extensive research has been carried out on alternative fuels such as biodiesel, bioalcohol and other biomass sources. Wood pyrolysis oil is considered an alternative fuel for diesel engines. However, due to its high viscosity, low heating value and corrosion of components, it cannot be used directly in a diesel engine. To alleviate these problems, it must be mixed with diesel or biodiesel. In the present study, bio-oil is obtained from wood waste through fixed bed processes or vacuum pyrolysis. It is blended with Jatropha

	biodiesel with 2% Triton x100 and Span 80 mixed surfactants. The performance, emissions and combustion properties of the emulsions are analyzed and compared with diesel and biodiesel. According to the results, the braking thermal efficiency of JOE 15 is 2% higher than that of diesel, and that of JOE5 is 6% lower than that of diesel. At full load, the specific energy consumption decreases as the concentration of WPO increases. HC and CO emissions from JME and emulsions are lower than those from diesel. NO emissions compared to diesel increase by 8.29%, 5.5% for JOE5, JOE10 and decrease by 1.3% for JOE15. NO emissions decrease with increasing WPO concentration. Keywords: Bio fuel, blending of fuel, Wood pyrolysis oil, emissions and combustion properties, thermal efficiency etc.
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Paper Title	The employment of GPU to building block communicating examination
Authors & Affiliation	Rohan Chaturvedi I Mamta Sood2 M.Tech. Scholar, Department of Electronics Engineering, OCT Bhopal1, M.P. India Department of Electronics Engineering, OCT Bhopal2 M.P. India
Abstract & Keyword	Abstract This thesis applies the modern trends in parallel processing, via graphics processing unit (GPU), to the parcel of molecular communications (MC), an investigation into communication existence of art movement in vivo Na-no machines. Existing MC dissemble have not fully accounted for structural boundaries & the connected simulation of a monolithic number of messenger molecule paths for random evaluation. These molecules are influenced by a Brownian motion as well as the flow of the blood, which is sculptural using numerical methods based on the Fokker-Planck random differential equation. By using a GPU these paths can be calculated on a monolithic scale, both in the number of imitation paths, & the number of time steps. The use of a GPU also allows for other deterrent and abide by to be added to the path of those corpuscle in future works. This study should enable and litigate present as well as future study in the MC field. Keyword :- Molecular Simulation, GPU, CUDA, NAMD, GPU computing
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Paper Title	Application of cloud resources for ground assembling visualization
Authors & Affiliation	Deeksha Chaurasia1 Syed Ali2 M.Tech. Scholar, Department of Computer Science Engineering, OCT Bhopal1, M.P. India Department of Computer Science Engineering, OCT Bhopal2 M.P. India
Abstract & Keyword	Abstract This thesis applies the modern trends in parallel processing, via graphics processing unit (GPU), to the parcel of molecular communications (MC), an investigation into communication existence of art movement in vivo Na-no machines. Existing MC dissemble have not fully accounted for structural boundaries & the connected simulation of a monolithic number of messenger molecule paths for random evaluation. These molecules are

	influenced by a Brownian motion as well as the flow of the blood, which is sculptural using numerical methods based on the Fokker-Planck random differential equation. By using a GPU these paths can be calculated on a monolithic scale, both in the number of imitation paths, & the number of time steps. The use of a GPU also allows for other deterrent and abide by to be added to the path of those corpuscle in future works. This study should enable and litigate present as well as future study in the MC field. Keyword :- Molecular Simulation, GPU, CUDA, NAMD, GPU computing
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Paper Title	VLSI design using cutting-edge technologies to create a design environment for more complex and specific designs
Authors & Affiliation	Shivani Chaurasia1 Dr. Sandeep Garg2 M.Tech. Scholar, Department of Electronics Engineering, OCT Bhopal1, M.P. India Department of Electronics Engineering, OCT Bhopal2 M.P. India
Abstract & Keyword	Abstract Integrated Circuit (IC) design complexity has increased radically since the first "hand-made" designs in the late 50s, with a few transistors. Nowadays, Very Large Scale Integration (VLSI) designs contains hundreds thousand, million or even billion transistors and not only the experience of the designer, but also Electronic Design Automation (EDA) tools and some methodology is needed. The purpose of this thesis is the design in 90nm UMC technology of an 8-bit micro controller for its final manufacture using Model sim, Design Compiler and Soc Encounter and following a standard cell design methodology. During the different steps of the VLSI flow (behavioral specification and verification, synthesis and layout generation), it will be shown how to deal with the design issues that arise: (DFT insertion, clock gating, clock&reset tree generation, etc.)Starting from a tested FPGA implementation in VHDL based on the AVR ATmega103 micro controller from ATMEL, the final result is an 8-bit micro controller with the following features: 16k x 16 bits of Program Memory (PM), 8K bytes Data Memory (DM), 256 bytes parameter memory, 3 8bits I/O ports, UART, SPI, JTAG interface, additional PM programming capability (apart from the JTAG) and Wishbone interface including an USB slave and another slave to implement and test a simple scan chain prototype. In addition the clock frequency can be increased up to 200 MHz. Keyword :- Deep neural networks (DNNs), Internet of things (IoT), machine learning (ML), razor, system-on-chip (SoC).
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Paper Title	A study on Implications of Generative AI in Academics and Ethical Framework
Authors & Affiliation	1 Dr Ashok Kumar Rai & 2 Dr Bhavana Likhitkar 1Associate Professor, Lakshmi Narain College of Technology, Bhopal (M.P.) 2Associate Professor, Lakshmi Narain College of Technology, Bhopal (M.P.)
Abstract & Keyword	Abstract Generative AI, such as large language models and image generation systems, is revolutionizing education and other area by enabling automation, personalization, and creativity. However, its adoption also raises serious

	ethical concernsGenerative Artificial Intelligence (AI), including tools like ChatGPT, DALL·E, and others, is revolutionizing education by providing personalized content, enhancing creativity, and improving access to information. However, its use raises significant ethical concerns, including academic dishonesty, data privacy, bias, and the role of human educators. This paper explores these ethical issues, offering insights and recommendations to ensure responsible integration of generative AI in educational environments. the key ethical implications of generative AI in both domains, focusing on issues such as misinformation, bias, academic integrity, data privacy, and the impact on human creativity and labor. Keywords: - Artificial intelligence, Academic, ChatGPT, DALL-E
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