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### Authors: Neha Thombre, Pallavi Deshmukh, Simantini Patil, Shailesh Jain

**Paper Title:** Personalized Image Search

**Abstract:** Personalized Search is a feature in which when a user is logged into an account, all of his or her searches on Personal Search are recorded into Web History. Then, when a user performs a search, the search results are not only based on the relevancy of each web page to the search term, but the service also takes into account what websites the user previously visited through search results to determine which search results to determine for future searches, to provide a more personalized experience. The feature only takes effect after the user has performed several searches, so that it can be calibrated to the user's tastes. Social sharing websites like facebook, twitter, YouTube they are allowing user to comment, tag, like and unlike the shared documents or images. Rapid Increase in the search services for social websites has been developed.

**Keywords:** Personalized Search, Tagging, Topic Model.

**References:**
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3. Personalized Search on Flickr based on Searcher’s Preference Prediction Dongyuan Lu, Quidan Li

### Authors: Y.Shakar, B. Vasunayak, J. Sunil Kumar, A. Sanyasi Rao, Fathima Shireen

**Paper Title:** Cryptographic Algorithms Implementation on RISC Processor

**Abstract:** Security is one of the most important features in data communication. Cryptographic algorithms are mainly used for this purpose to obtain confidentiality and integrity of data in communication. Implementing a cryptographic algorithm on a general purpose processor it results lower throughput and larger power consumption. In this work we propose processor architecture to perform the cryptographic algorithms and also it speed up the encryption and decryption process of data. This processor will perform the cryptographic operations as like general instructions in GPP. The data size of this processor is 32-bit. The architecture of the processor designed using Verilog HDL.

**Keywords:** Cryptographic Algorithms, GPP, Verilog.

**References:**

### Authors: Geethanjali Marri, P. Sri Padma, Ch. Ganapathi Reddy

**Paper Title:** Conjugate Gradient Based MMSE Filter for Uplink Orthogonal Frequency Division Multiple Access Systems
Abstract: Carrier Frequency Offset (CFO) compensation is very important for reliable detection of transmitted data in uplink Orthogonal Frequency Division Multiple Access (OFDMA) systems. In this paper we proposed a low-complexity CFO compensation algorithm based on the Minimum Mean Square Error (MMSE) criterion for uplink OFDMA systems. The proposed algorithm employs a Conjugate Gradient (CG) method which iteratively finds the MMSE solution. In this paper we are presenting the proposed method by comparing with the existing direct MMSE method and we show that CFO can be compensated with substantially reduced computational complexity by applying the CG method.

Keywords: Carrier Frequency Offset (CFO), Orthogonal Frequency Division Multiple Access (OFDMA), Conjugate Gradient (CG).

References:

Authors: Sreenivasa Reddy Mula

Paper Title: Power Factor Correction

Abstract: In this paper, a new parallel-connected single phase power factor correction (PFC) topology using flyback converter in parallel with forward converter is proposed to improve the input power factor with simultaneously output voltage regulation taking consideration of current harmonic norms. Paralleling of converter modules is a well-known technique that is often used in medium-power applications to achieve the desired output power by using smaller size of high frequency transformers and inductors. The proposed approach offers cost effective, compact and efficient AC-DC converter by the use of parallel power processing. Forward converter primarily regulates output voltage with fast dynamic response and it acts as master which processes 60% of the power. Flyback converter with AC/DC PFC stage regulates input current shaping and PFC, and processes the remaining 40% of the power as a slave. A parallel-connected interleaved structure offers smaller passive components, less loss even in continuous conduction inductor current mode, and reduced volt-ampere rating of DC/DC stage converter. MATLAB/SIMULINK is used for implementation and simulation results show the performance improvement.

Keywords: Ac-dc converter, pwm, pfc, simulink, matlab.

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Authors: Raghava Yathiraju

Paper Title: Acoustic Echo Cancellation Using Conventional Adaptive Algorithms

Abstract: An adaptive filter is a filter that self-adjusts its transfer function according to an optimization algorithm driven by an error signal.Because of the complexity of the optimization algorithms,most adaptive filters are digital filters. Adaptive filtering constitutes one of the core technologies in digital signal processing and finds numerous application areas in science as well as in industry. Adaptive filtering techniques are used in a wide range of applications, including, adaptive noise cancellation, echo cancellation, adaptive equalization and adaptive beamforming. Acoustic echo cancellation is a common occurrence in today’s telecommunication systems. The signal interference caused by acoustic echo is distracting to users and causes a reduction in the quality of the communication. This paper focuses on the use of Least Square (LMS), Normalised Least Mean Square (NLMS), Variable Step-Size Least Mean Square (VSLMS), Variable Step-Size Normalised Least Mean Square (VSNLMS) and Recursive Least Square (RLS) algorithms to reduce this unwanted echo, thus increasing communication quality.

Keywords: Adaptive filters, Echo, Adaptive algorithms, Echo cancellation, Acoustic echo cancellation.

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Authors: Omar Turath Tawfeeq

Paper Title: THD Reduction of A Current Source Rectifier-DC Motor Drive Using Single Tuned Filters

Abstract: A current source rectifier (CSR) is commonly used to supply a DC Motor with variable voltage for variable speed applications. A study of THD Reduction using single tuned filters employed to obtain the required low harmonic distortion and nearly unity power factor in A.C supply current over a wide range of operating shaft speed. The external performances of a three-phase CSR-fed separately excited DC motor drive such as power factor, harmonics factor, and efficiency using sinusoidal pulse width modulation (SPWM) control technique are obtained for different speed and modulation indexes. Separately excited DC motors with armature voltage control provides constant torque operation. The effectiveness of the proposed system (2.3-kW 13A DC motor drive) was verified through computer Matlab simulations.

Keywords: Current source rectifier, DC Drive, THD Reduction, Single tuned filters, SPWM.

References:


Abstract: The use of fibre composite materials in more demanding roles is increasing due to increased performance requirements in various applications. One type of joint in a sandwich panels in superstructure is a T-joint. An existing design consists of panels joined by filler material and overlaminates of the same thickness as the skin laminates. The aim of the research was to determine the methodology to predict the failure mode of the T-Joint under a pull-off tensile loading using Finite Element model. The outcome of the research was that the Finite Element (FE) simulations were used in conjunction to determine the failure mechanism of the T-Joint in the presence of disbonds in the critical location. Stress distributions are investigated by both laboratory tests and numerical modeling, and design criteria for core pieces are presented.

Keywords: Sandwich panels, Overlaminates, T-joint, Core pieces, FRP.

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Authors: Sainath A. Waghmare, Chandan D. Chaudhari, Sumit N. Gavande

Paper Title: Numerical Analysis and Experimental Failure Mode Determination of Composite T-Joint

8.

Abstract: Design and Implementation of Phase Modulation Using PLL for Polar Transmitter

Abstract: In this paper the phase modulation of polar transmitter has been implemented. The circuit for implementing phase modulation consists of Phase Lock Loop (PLL), Sigma Delta Modulator (SDM) and differentiator. The input signal is applied at the differentiator which will convert phase component to the frequency of the signal. The obtained signal is applied at the SDM which will convert the analog signal to the digital signals. The SDM should have four bits of resolution, equivalently 36 dB signal-to-noise-and-distortion-ratio (SNDR) for a 200 kHz bandwidth. For supply voltages from 2.5 V to 3 V, the current supply is desired to be less than 20 mA. The PLL consists of the reference signal of 125MHz, and output voltage around 2-3GHz with the VCO gain of 0.277GHz/V. The circuit of PLL, SDM and differentiator are implemented on the Cadence Virtuoso platform.

Keywords: Polar transmitter, phase modulation, Phase lock loop, Sigma delta modulator, differentiator.

References:

Authors: Kushal M. L, V. Venkateswarlu

Paper Title: Design and Implementation of Phase Modulation Using PLL for Polar Transmitter

Abstract: In this paper the phase modulation of polar transmitter has been implemented. The circuit for implementing phase modulation consists of Phase Lock Loop (PLL), Sigma Delta Modulator (SDM) and differentiator. The input signal is applied at the differentiator which will convert phase component to the frequency of the signal. The obtained frequency signal is given to the SDM which will convert the analog signal to the digital signals. The SDM should have four bits of resolution, equivalently 36 dB signal-to-noise-and-distortion-ratio (SNDR) for a 200 kHz bandwidth. For supply voltages from 2.5 V to 3 V, the current supply is desired to be less than 20 mA. The PLL consists of the reference signal of 125MHz, and output voltage around 2-3GHz with the VCO gain of 0.277GHz/V. The circuit of PLL, SDM and differentiator are implemented on the Cadence Virtuoso platform.

Keywords: Polar transmitter, phase modulation, Phase lock loop, Sigma delta modulator, differentiator.

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Paper Title: Self Automated Tool in Vehicular System That Identifies the Air Pollution and the Future of E-Governs

Abstract: Air pollution is a major issue that we face today. Pollution zone in during earlier century was low but keeps growing towards the current. Studies revealed the fact the concentration in organic and inorganic toxic elements keeps growing depending upon the region and vehicle type. There is a growing demand for the environmental pollution monitoring and control systems. Gas sensors help to detect gas molecules and the concentration of the gas analytical methods of identifying the gases has greater disadvantage than with fairly accurate and selective gas reading.

Keywords: Embedded control, Monitoring system, Remote monitoring, sensor.

References:


