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<th>Volume-1 Issue-3, February 2014, ISSN: 2347-6389 (Online) Published By: Blue Eyes Intelligence Engineering &amp; Sciences Publication Pvt. Ltd.</th>
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<tr>
<td></td>
<td>Authors: Vibha Mishra, Vinod Kapse</td>
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<td></td>
<td>Paper Title: Hardware Implementation of 64 Bit Floating Point Arithmetic Using VHDL</td>
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<td><strong>Abstract:</strong> Many of the scientific applications rely on floating point (FP) computation, often requiring the use of the 64 bit Floating Point format specified by the IEEE standard 754. The use of double precision (D.P.) data type improves the accuracy and dynamic range of the computation, but simultaneously it increases the complexity and performance of the arithmetical computation of the module. The design of high performance 64-Bit floating point units (FPUs) is thus of interest in this Document.</td>
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<td><strong>Authors:</strong> R. Dhayabarani, R. S. D. Wahida Banu</td>
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<td>Paper Title: Performance Analysis of Multiplier using Full Adder</td>
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<td><strong>Authors:</strong> Neelam T. Rakate, U. A. Patil</td>
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<td></td>
<td>Paper Title: Iris Biometric for Person Identification Using Dual-Tree Complex Wavelet Transform</td>
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<td>3.</td>
<td><strong>Abstract:</strong> Technologies that exploit biometrics have the potential for application to the identification and verification of individuals for controlling access to secured areas or materials. A wide variety of biometrics has been marshaled in support of this challenge. Resulting systems include those based on automated recognition of retinal vasculature, fingerprints, hand shape, handwritten signature, and voice. Unfortunately, from the human factors point of view, these systems are highly invasive. One possible alternative to these methods that has the potential to be less invasive is automated iris recognition. Interestingly, the spatial patterns that are apparent in the human iris are highly distinctive to an individual. The iris has unique features and is complex enough to be used as a biometric signature. Therefore, in order to use the iris pattern for identification, it is important to define a representation that is well adapted for extracting the iris information content from images of the human eye. Here we represent a new algorithm for extracting unique features from images of the iris of the human eye and representing these features using two-dimensional dual-tree complex wavelet transform (DTCWT). This representation is then utilized to recognize individuals from images of the irises of their eyes. The proposed technique is translation &amp; shift invariant. For the dual filter tree, we have selected two linear phase biorthogonal filter sets of same lengths (based on Selesnick’s approach) which are used to filter each signal for quantization to 375 byte iris feature codes. Then the Hamming distance is used to match two iris codes. The experimental results on UPOL database shows good reliability and performance, so it is promising to be used in a personal identification system.</td>
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<td><strong>Keywords:</strong> Biometrics, Complex Wavelet Transform, Feature extraction, Hamming distance.</td>
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<td><strong>References:</strong></td>
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<td>4.</td>
<td>Rajesh M. Bodade, Dr. Sanjay N. Talbar, “Iris Recognition using Combination of Dual Tree Rotated Complex Wavelet and Dual Tree Complex Wavelet,” IEEE ICC 2009 proceedings.</td>
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### Abstract
This paper presents a unique step-by-step procedure for the simulation of photovoltaic modules with Matlab/Simulink. The objective is to design & simulate a controller for the unlimited solar power drawn from the sun & produce a higher voltage output through the d.c. to d.c. (Buck-boost) converter. One-diode equivalent circuit is employed in order to investigate i-v and p-v characteristics of a typical 36W solar module. The proposed module is designed with different icons, dialogue box like simulink block libraries. This PV module is interfaced to the buck boost converter and the performance has been studied by the matlab simulink.

### Keywords
Photovoltaic (PV), Buck-Boost Converter, simulation of PV model, simulation results.

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