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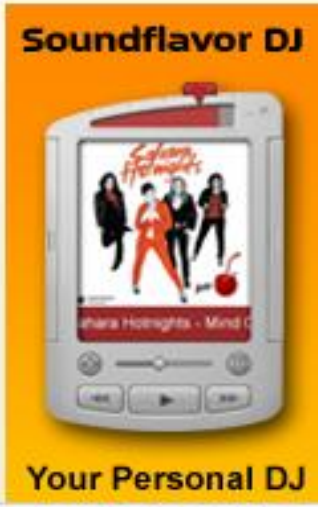

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Kaijie Wu, Polytechnic University, Brooklyn, NY
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Ramesh Karri, Kaijie Wu, Piyush Mishra
ECE Department, Polytechnic University
5 Metrotech Center, Brooklyn, NY, 11201
1-718-260-4011
ramesh@india.poly.edu, kwu03,pmishr01@utopia.poly.edu

Yongkook Kim
IBM Corporation
Poughkeepsie, NY, 12601
1-845-435-7563
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Abstract: *Fault-based side channel cryptanalysis is very effective against symmetric and asymmetric encryption algorithms. Although straightforward hardware and time redundancy based concurrent error detection (CED) architectures can be used to thwart such attacks, they entail significant overhead (either area or performance). In this paper we investigate systematic approaches to low-cost, low-latency CED for symmetric encryption algorithms based on the inverse relationship that exists between encryption and decryption at algorithm level, round level and operation level and develop CED architectures that explore the trade-off between area overhead, performance penalty and error detection latency. The proposed techniques have been validated on FPGA implementations*

Differential Power Analysis (DPA) exploits the correlation between the power dissipation and bits of internal stage during encryption [6]. This attack does not require much knowledge of the implementation and yields both the key and enough information to derive a model of the device. Solutions to thwart DPA include masking the side-channel power information by performing random calculations, adding complementary circuits to mirror the real encryption calculations and varying the order of the operations in software.

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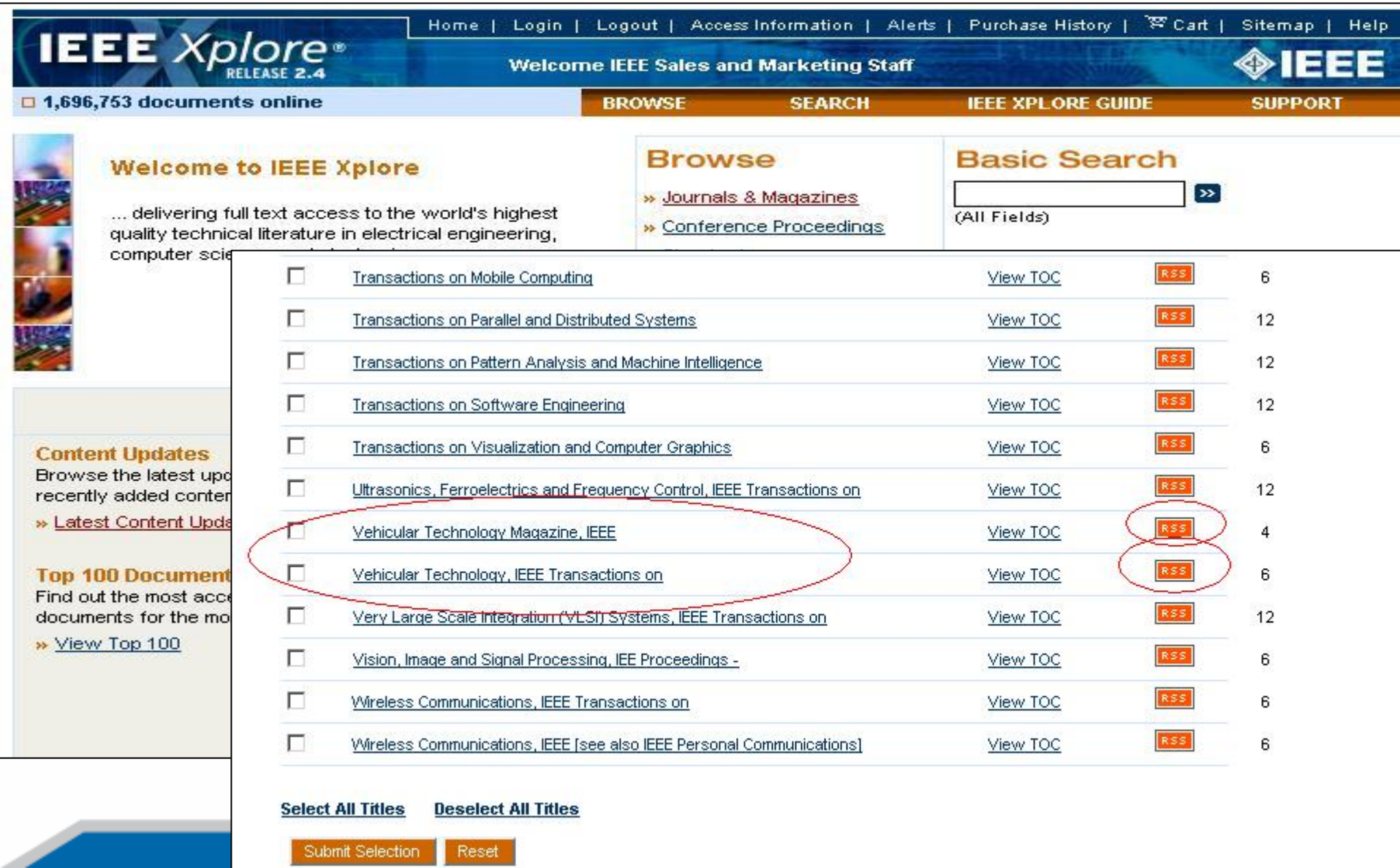

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Analysis of Energy Conversion Efficiency in Parallel and Series Hybrid Powertrains

Tomaž Katrašnik, Ferdinand Trenc and Samuel Rodman Oprešnik

Abstract— **The aim of this paper is to present a simulation and analytical analysis of the energy conversion efficiency in parallel and series hybrid powertrains. Analytical approach is based on the energy balance equations, whereas simulation approach is based on an accurate and fast forward-facing simulation model for simulating parallel and series hybrid powertrains. Very good agreement between simulation and analytical results gives confidence in the accuracy of the performed analysis and confirms the validity of the analytical framework. Thus, combined simulation and analytical analysis enables deep insight into energy conversion phenomena in hybrid powertrains and reveals advantages and disadvantages of both hybrid concepts running under different operating**

propulsion devices, since the electric motor can be used as a generator. Another advantage over the series HEV is that a smaller engine and a smaller electric motor can be applied to get the same performance until the battery is depleted. Therefore, in passenger car application, the parallel hybrid configuration has been used in many HEVs that have come on the market [1].

It is well known that diesel engine is inherently more efficient in comparison with a gasoline engine [3-5], whereas part load efficiency of a gasoline engine is additionally decreased due to higher throttling losses. It is therefore reasonable to select diesel engine as the ICE power source of the hybrid powertrain in order to improve its fuel economy.

Recently, many papers concerning simulation based

hybrid powertrain concepts feature the best fuel economy at light-duty application.

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In this paper, a joint channel estimation and multiuser detection method is presented for uplink multicarrier code-division multiple access systems in time-varying environments. Unlike the conventional channel-tracking schemes, which generally need to insert pilot signals in every

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(2008) 1526 (Print) 01636804
Published by Institute of Electrical and Electronics Engineers (IEEE)

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	Roadmap for navigating the yearÂÍs leading optical communications event ÂL OFC/NFOEC
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	Optical communications: from decades of fundamental developments to applications revolutionizing our lives [Guest Editorial] Abstract: The three papers in this inaugural issue of the Optical Communications Series cover a broad range of optical communications topics.
	PON in adolescence: from TDMA to WDM-PON Abstract: Passive optical networks are used for fiber-to-the-home/curb/cabinet/building applications. Today, two PON variants with time-domain multiple access, GPON and EPON, are being used for mass roll-outs. WDM-PONs are the next step up from these PONs to accommodate traffic growth and new applications. This article analyzes WDM-PON variants and proposes they be used for a unified optical access and back-hauling network.

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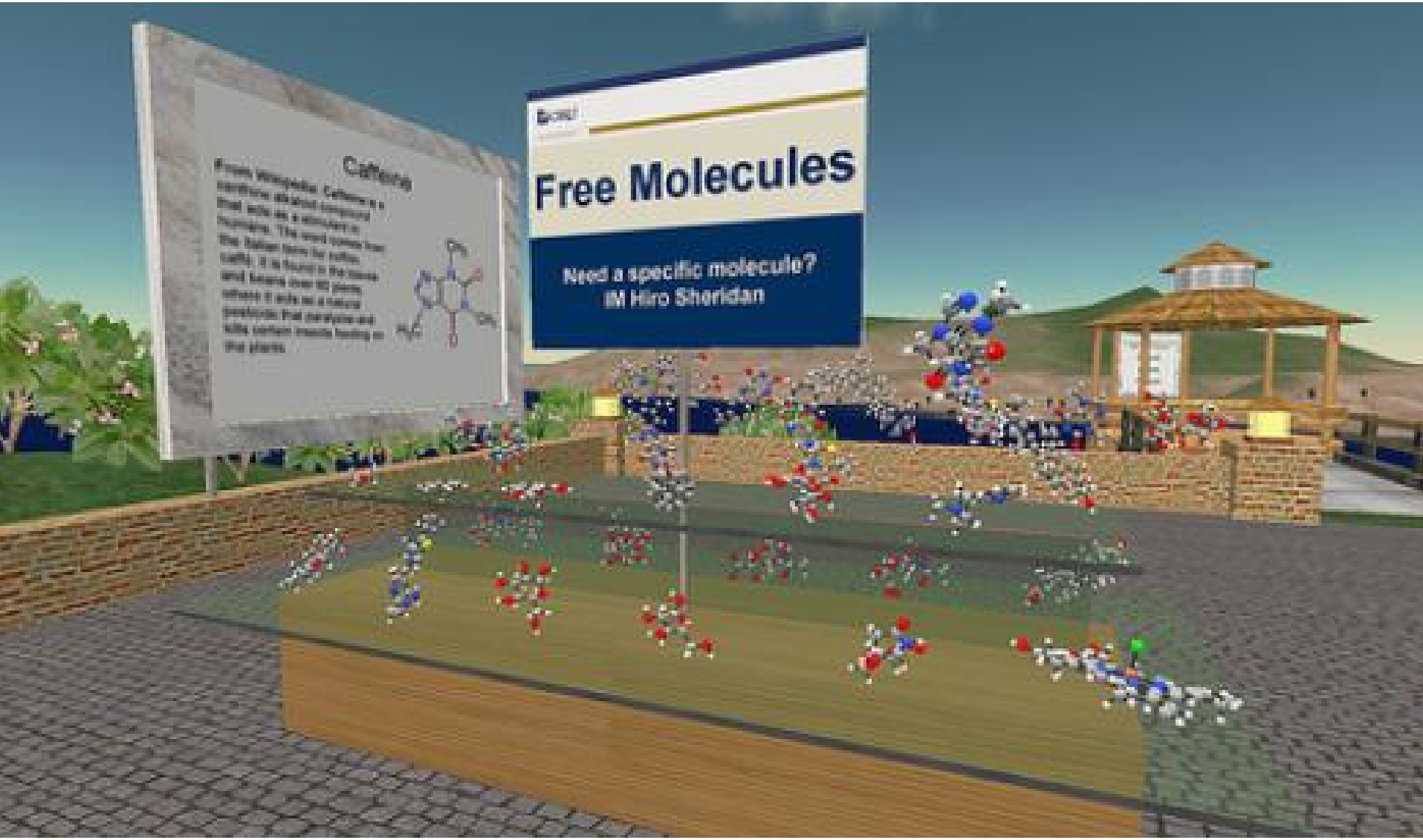
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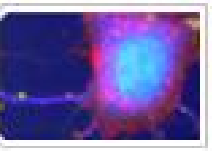

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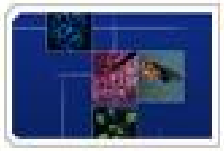

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Our summer break

Friday, June 29, 2007 11:23 AM
Posted By Pam Saenger, Associate Marketing Manager

Like many of you, those of us who were in DC last weekend are still recovering from the excitement of ALA (phew!). I want to thank everyone who came by to visit us at the Google booth. Meeting with you face-to-face is one of the best parts of my job. It never fails to make me reflect anew on the best ways to stay connected.

This summer, our blog team is taking a break to think about the best ways to communicate with you and keep you updated on what's happening with Google. We're not leaving you hanging, though. There are a number of great resources with which you can continue to stay current on Google news and updates:

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Thanks!

Mike Buschman
m.buschman@ieee.org