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Darnell Group

NEWS

Neural Networks and Adaptive Loops to be Discussed at Darnell's Digital Power Forum

Corona, California, May 29, 2009 – This year is seeing the introduction of the third-generation of digital power controller ICs, and Darnell's Digital Power Forum will be "the" place to hear all the latest developments and future trends for this leading-edge commercial technology. Digital power has achieved over 20% market penetration. It is well-established and is set to be adopted by a growing number of applications. That's why a track of papers has been added to DPF '09 describing "Applications of Digital Power." At DPF '09, there will be numerous "hot topics" discussed and debated including:

- Realization of adaptive control techniques in cost-effective controllers
- Neural-based digital controller chips will result in power supplies that can "learn" and improve their performance over time
- Adoption of digital control in high-volume and cost-sensitive consumer devices
- Accelerating migration of digital control into every application segment
- Enabling of new power architectures by digital control techniques
- Shift from predictive to proactive real-time power system diagnostics with digital power
- Does digital power deliver on the promises of higher efficiency, faster transient response, reduced component counts, improved reliability, higher densities, faster time-to-market and lower costs?
- Cumulative shipments of digital controller ICs will exceed Five Billion units by 2010

"The digital landscape promises to be recast this year," predicted Linnea Brush, Program Chair for DPF '09 and Senior Research Analyst at Darnell Group. "Billions of digital controller ICs are already being used in commercial power converters, and the introduction of third-generation devices will set the stage for increased adoption and accelerating market growth," Brush continued.

"Initially, digital power brought increased efficiency to power converters. That will continue to be true, but third-generation digital controller ICs will bring increased benefits of lower system costs, improved system performance and higher reliability, making a compelling case for the adoption of digital power technology in an ever-widening scope of applications, including cost-sensitive consumer products," Brush concluded.

DPF '09 is organized by Darnell Group. **PowerPulse.Net** is the official media sponsor for DPF '09. This focused three-day international conference will serve an audience of decision makers who are interested in learning about and contributing to the latest practical advancements and anticipated future developments related to digital power management in electronic systems and the use of digital control techniques in power converters.

Reflecting this broader scope and mainstream interest in digital power technologies, DPF '09 has an expanded Advisory Committee including representatives from Analog Devices, Coldwatt, Embedded Microprocessor Benchmarking Consortium, Emerson Network Power, Energy Star, Ericsson Power Modules, Fairchild Semiconductor, Huawei, IBM, Infineon Technologies, Intel, International Rectifier, Lineage Power, Maxim, Microchip, National Semiconductor, NXP, Power-One, Primarion, STMicroelectronics, Texas Instruments, and Zilker Labs. The **U.S. EPA ENERGY STAR Labeled Products program**, and the **Embedded Microprocessor Benchmarking Consortium** are supporting sponsors for DPF '09.

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