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Advances in MEMS Sensors, Vehicle Electronics To Enable Intelligent Mobility Systems for Connected Society

Industry leaders discuss the emerging roles of MEMS sensors and vehicle electronic systems at plenary sessions to kick off 2016 Symposium on VLSI Technology…

HONOLULU, HI (MAY 18, 2016) – Continuing developments in MEMS sensors and the accelerating pace of vehicle electrification represent significant technology inflection points for the microelectronics industry as the Internet of Things (IoT) promises to deliver enhanced personal mobility as well as increased vehicle intelligence. The expanding role of these key technologies is the subject of a plenary session that opens the 2016 Symposia on VLSI Technology & Circuits, a premiere international conference on semiconductor technology that defines the pace, progress and evolution of microelectronics, scheduled from June 13-17, 2016 in Honolulu, Hawaii.

Two Technology plenary sessions reinforce the Symposia's overall theme, **"Inflections for a Smart Society,"** with an opening address on **"The Age of Sensors – How MEMS Sensors Will Enable the Next Wave of New Products,"** by Stephen Lloyd, VP of engineering and new product development at InvenSense, Inc., followed by a presentation on **"Intelligent Mobility Realized Through VLSI,"** by Takao Asami, Nissan's senior vice president.

Scheduled for Tuesday morning, June 14, the plenary talks are part of the long-standing Symposia tradition of selecting industry experts to describe recent advances and new challenges on topics related to VLSI technology.

The first plenary session, presented by Stephen Lloyd, VP of engineering and new product development at InvenSense, Inc. will cover the evolution of MEMS-based sensors from their early stages as research projects to their current position in the mainstream of the latest generation of low-power network-enabled sensors.

"The integration of MEMS technology, especially motion sensors, into consumer applications such as mobile phones, cameras, gaming devices and wearable electronics represents several major technology inflections," explained Lloyd. "More recent applications for MEMS devices include automotive and industrial motion sensors."

Takao Asami, Nissan's senior vice president of research & advanced engineering, will present a plenary session covering the impact of VLSI technology on the accelerating pace of vehicle electrification and intelligent vehicle systems, and how these technology trends figure in the perspective of future mobility systems.

"The automotive industry is deploying advanced technology to create vehicle intelligence to meet challenges such as protecting the environment, saving energy, limiting traffic accidents and reducing urban traffic congestion," said Asami. "Examples of these trends are autonomous driving technology, which require advanced sensing, dynamic driving context interpretation, as well as vehicle maneuver and control systems."

More information about the Symposia plenary sessions is available here:
http://vlsisymposium.org/plenary-rump-sessions/

The annual Symposia on VLSI Technology & Circuits will be held at the Hilton Hawaiian Village, Honolulu, Hawaii from June 13-16, 2016 (Technology) and June 14-17, 2016 (Circuits). Held together since 1987, the Symposia provide a unique opportunity for the world's top device technologists, circuit and system designers to exchange leading edge research on microelectronics technology, with alternating venues between Hawaii and Japan.

Sponsoring Organizations
The Symposium on VLSI Technology is sponsored by the IEEE Electron Devices Society and the Japan Society of Applied Physics, in cooperation with the IEEE Solid State Circuits Society.

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Further Information, Registration and Program Details
Visit: http://www.vlsisymposium.org.

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