2012 Spintronics Workshop on LSI

June 11, 2012, 19:30 – 22:45
(Onsite registration 19:00-)
Mid-Pacific Conference Center 2nd floor / Room: South Pacific

Hilton Hawaiian Village, Honolulu, Hawaii

General Information

The 2012 Spintronics Workshop on LSI will be held at Hilton Hawaiian Village, Honolulu, Hawaii, on June 11, 2012, just prior to the VLSI Symposium on Technology as a Satellite Workshop of the 2012 VLSI Symposia for the 2nd time. The workshop will focus on spintronics-based LSI technologies for high performance and ultra low power systems. Seven papers will be presented from invited speakers. The workshop is sponsored by Center for Spintronics Integrated Systems (CSIS), Tohoku University, which has been conducting the FIRST program supported by JSPS.

Registration

The workshop fee is free of charge. Onsite registration is required. (at the entrance of Room "South Pacific" from 19:00.)

PROGRAM

Opening 19:30 - 19:50	**Opening Remarks :** Hideo Ohno (Tohoku University, Workshop Program Chair)
Invited talk 19:50 - 20:15	**Commercial ST-MRAM Development: Recent Results and Outlook** Jon Slaughter (Everspin Technologies)
Invited talk 20:15 - 20:40	**Magnetic Random Access Memory Current Status and Perspectives** Janusz Nowak (IBM)
Invited talk 20:40 - 21:05	**Progress and Challenges in Scalable STT-MRAM** Jeong Heon Park (Samsung)
Invited talk 21:05 - 21:30	**Restructuring of Memory Hierarchy in Computing System with STT-MRAM Technologies** Tetsuo Endoh (Tohoku University)
Invited talk 21:30 - 21:55	**STTRAM for Embedded Memory: A Model Study** Arijit Raychowdhury (Intel)
Invited talk 21:55 - 22:20	**Embedded STT-MRAM: Recent Progress as an Application-Aware Technology** Seung Kang (Qualcomm)
Invited talk 22:20 - 22:45	**Challenge of Nonvolatile Logic-in-Memory Architecture Towards Cool LSI Chips** Takahiro Hanyu (Tohoku University)

Program Chair: Hideo Ohno (Tohoku University)

Program Committee: Philip Wong (Stanford University, Executive Committee Member of the 2012 Symposia on VLSI Technology and Circuits)

Hitoshi Wakabayashi (Sony, Symposium Co-Chair of the 2012 Symposium on VLSI Technology)

Takahiro Hanyu (Tohoku University)

Tetsuo Endoh (Tohoku University)

Secretary: Naoki Kasai
(Tohoku University, Program Committee Member of the 2012 Symposium on VLSI Technology),
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Secretariat: Secretariat for VLSI Symposia (Japan), c/o ICS Convention Design, Inc.
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Kālia Road

KĀLIA
EXECUTIVE
CONFERENCE
CENTER
Starbucks
Concierge Desk
KĀLIA TOWER
Mandara Spa & Salon
(4th Floor)

South Pacific
2012Spintronics
Workshop on LSI

Benihana
of Tokyo

TAPA TOWER

ATM

Bus & Tour
Transportation

Diamond
Head
Apartments

Activities Desk

Onolicious Dog
at Tapa Pool

Post Office

Rainbow Drive

**MID-PACIFIC
CONFERENCE CENTER**
(6th floor)

Parking
Elevators

Tapa Bar

**TAPA
POOL**

Camp Penguin

**DIAMOND
HEAD
TOWER**

**GRAND
WAIKIKIAN**

Hatsuhana
Restaurant

**RAINBOW
BAZAAR**

Ocean Crystal Chapel

Hanajuban
Noodle Shop

Concierge Desk

CJ's New York Style
Delicatessen

ATM

VILLAGE GREEN

ALI'I
TOWER
PLAZA

Starbucks

Sergio's Italian
Restaurant
(2nd Floor)

Activities Desk

Front Desk

Concierge Desk

Manager on Duty

**ALI'I
TOWER**

Round Table
Pizza

Lappert's
Ice Cream
& Coffee

Lagoon Drive

Concierge Desk

Valet and Taxi

**MAIN
LOBBY**

Pronto Pickle

Tropics Bar & Grill

Kahanamoku Street

Ala Moana Blvd.

**LAGOON
TOWER**

Concierge
Desk

GREAT LAWN

**SUPER
POOL**

Port Waikiki
Cruises

Pool Stand
Atlantis Adventures

PARADISE
POOL

Pool
Stand

Concierge
Desk

Beach
Stand

Rainbow Lanai

Hau Tree Bar
Pool/Beach
Stand

Paradise
Lounge

Bali Steak
& Seafood

**RAINBOW
TOWER**

Onolicious Dog
Beachside

DUKE KAHANAMOKU
LAGOON

Port Hilton

PACIFIC OCEAN