2021 International Symposium on Devices, Circuits and Systems (ISDCS 2021)

Higashihiroshima, Japan
3 – 5 March 2021
ISDCS 2021 Symposium

Symposium Opening

Session 1: Keynote Talks
- SDGs Initiatives at Hiroshima University: Integrating Global Strategy and Regional Vitalization........N/A
  Shinji Kaneko (Hiroshima University)

- Advanced Materials and Methods for Fabrication of Thin-film Transistor (TFT)-based Sensors........N/A
  Parthasarathi Chakrabarti (IIEST Shibpur and Department of Electronics Engineering, IIT(BHU))

Session 2: Devices -- Optoelectronics; Let there be light!
- [Invited] Voltage Assisted Quantum Dot Based MOS Devices for Electronic and Optoelectronic Applications........N/A
  Sanatan Chattopadhyay (University of Calcutta)

- Broadband and Broad-Angle Optical Absorption by MoS2 and MoSe2 Monolayers in 1D Photonic Crystals........1
  Angkur Ghosh Priyam, Sabrina Rahman, Aditi Sen, Ayon Kumar Basak and Safayat Al Imam (Ahsanullah University of Science and Technology)

- CdS Quantum Dots `Based Nano Light Emitting Device........6
  Abhigyan Ganguly (Univ. of KwaZulu-Natal) Siddhartha S. Nath (Cachar College) and Viranjay M. Srivastava (Univ. of KwaZulu-Natal)

Session 3: Devices -- Sensing the World in an Innovative Way
- [Invited] Electrochemical Impedance Sensor for Non-invasive Living Cell Monitoring toward CMOS Cell Culture Monitoring Platform........10
  Shigeyasu Uno (Ritsumeikan University)
• [Invited] Tunnel Field Effect Transistors: Challenges and Opportunities........N/A
  Hafizur Rahaman (IIEST Shibpur)

• [Invited] Performance Improvement of Graphene Derivative based Gas sensors: Role of Functional Group Tuning and Ternary Junction Formation........N/A
  Partha Bhattacharyya (IIEST Shibpur)

• [Invited] Variable cavity fiber Fabry-Perot circuit: Devising low magnetic field (~mT) sensor and analytical modeling........N/A
  Partha Roy Chaudhuri (Indian Institute of Technology Kharagpur)

• [Invited] A High SNR Wide Spectral Response CMOS Image Sensor Technology for Smart Sensing........N/A
  Rihito Kuroda (Tohoku University)

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**March 4, 2021**

**Session 4: Devices**

• A First Principle Based Investigation on the Effects of Stacking Configuration and Biaxial Strain on the Electronic Properties of Bilayer MoS2........14
  Pranav Anand P, Pradyumna Parshi, Vishesh Jain, Swastik Bhattacharya (Birla Institute of Technology and Science-Pilani, Hyderabad Campus), Arnab Mukhopadhyay (C. V. Raman Global University) and Sayan Kanungo (Birla Institute of Technology and Science-Pilani, Hyderabad Campus)

• Design and Simulation of Strained Si/SiGe HBT Architecture with Uniaxially-stressed Collector........19
  Jianhao Wen, Jinxi Wei, Qi Song, Guanyu Wang (Chongqing University of Posts and Telecommunications), Chunyu Zhou (Yanshan University) and Wei Wang (Chongqing University of Posts and Telecommunications)
• DC and linearity performance assessment of a novel Si0.6Ge0.4/Ge Dopingleess Tunnel FET for ultra-low voltage applications........23
  Suruchi Sharma, Rikmantra Basu and Baljit Kaur (National Institute of Technology Delhi)

• Genetic algorithm-based threshold voltage prediction of SOI JLT using multi-variable non-linear regression........28
  Sandeep Moparthi (NIT Calicut), Pramod Kumar Tiwari (IIT Patna) and Gopi Krishna Saramakala (NIT Calicut)

• History effect investigation in SOI MOSFET for minimizing impact on circuit performance........32
  Soumajit Ghosh and Takahiro Iizuka (Hiroshima University)

• Model Development for Robust Design of SOI-MOSFET Circuits Used in Radiative Environments........37
  Mitiko Miura-Mattausch, Hideyuki Kikuchihara and Hans Juergen Mattausch (Hiroshima University)

Session 5:  Circuits - Bridging Analog and Digital
• Modelling, Analysis and Optimization of a 4th Order ∆Σ- ADC and its Non-Idealities for Audio Codec Applications Achieving Dynamic Range Above 100dB........41
  Bramh Dev Singh (Indian Institute of Engineering Science and Technology Shibpur), Sourav Naskar (Sankalp Semiconductors, An HCL Technological Company), Subhajit Das and Hafizur Rahaman (Indian Institute of Engineering Science and Technology Shibpur)

• Design of Two-Stage Fully-Differential Driver in SAR ADC with Indirect Feedback Compensation Technique........47
  Urbashi Basumata, Annapurna Mondal, Subhajit Das and Hafizur Rahaman (IIEST, Shibpur)
Session 6: Devices, Circuits, Systems - An Aggregated Subsystem - Memory and Switching Arrays, Interconnects

- [Invited] Challenges for DRAM scaling and performance enhancement........N/A
  Shigeru Shiratake (Micron Technology, Inc.)

- Power and Thermal Modeling of In-3D-Memory Computing........52
  Jun-Han Han, Robert E. West, Karina Torres-Castro, Nathan Swami, Samira Khan and Mircea Stan (University of Virginia, Charlottesville)

- On Defect Tolerance of Nanocrossbar Arrays using Divide and Conquer Technique........56
  Tanmoy Chaku, Aarjesh Rakshit (Jalpaiguri Government Engineering College), Ismail Sarkar (Heritage Institute of Technology) and Malay Kule (Indian Institute of Engineering Science and Technology, Shibpur)

- Detection of Hardware Trojan in Presence of Sneak Path in Memristive Nanocrossbar Circuits........60
  Subhashree Basu (St. Thomas’ College of Engineering and Technology), Malay Kule and Hafizur Rahaman (Indian Institute of Engineering Science and Technology, Shibpur)

- Proficient Matrix Codes for NOC Applications........64
  Divya Lakshmi Samudrala, Neelima Koppala (Sree Vidyanikethan Engineering College, Tirupati) and Subhas C (JNTUA College of Engineering, Kalikiri)

- A Brief Review of Recent Studies on Performance Improvement of Graphene Nanoribbon Interconnect........68
  Santasri Giri Tunga (Haldia Institute of Technology), Subhajit Das and Hafizur Rahaman (IIEST Shibpur)
Session 7: Devices, Circuits, and Systems - Power Electronics

- [Invited] Metal Oxide Semiconductors with Carbon Nanomaterials for Efficient Supercapacitive Type Energy Storage Devices...........N/A
  Nillohit Mukherjee (IIEST Shibpur, India)

- A Novel Energy Management Approach to Networked Microgrids for Disaster Resilience...........74
  Kihembo Samuel Mumbere, Atsushi Fukuhara, Yutaka Sasaki, Yoshifumi Zoka, Naoto Yorino (Hiroshima University) and Yoshiki Tanioka (Chudenko, Co.)

- Power Control of Solar Cell and Stable Energy Supply by High Voltage DC-DC Converter Equipped with Energy Storage.........79
  Farzad Mohammadzadeh Shahir (University of Tabriz), Mehrdad Aberoumandazar (Politecnico di Milano) and Ebrahim Babaei (University of Tabriz)

- High Gain DC-DC Boost Converter Applied in Hybrid System of Photovoltaic and Battery.........84
  Farzad Mohammadzadeh Shahir (University of Tabriz), Mehrdad Aberoumandazar (Politecnico di Milano) and Ebrahim Babaei (University of Tabriz)

- Loss Reduction in a Grid-Connected Photovoltaic System Operated with P-&-O Algorithm based MPPT Control by introducing Diamond MOSFET.........88
  Sudipta Mukherjee, Kasturi Saha, Dipankar Saha, Apurba Laha and Swaroop Ganguly (Indian Institute of Technology Bombay)

- Modeling of SJ-MOSFET for High-Voltage Applications with Inclusion of Carrier Dynamics During Switching...........94
  Hideyuki Kikuchihara, Mitiko Miura-Mattausch (Hiroshima University), Takeshi Mizoguchi (Toshiba Electronic Devices & Storage Corporation),
Hajime Nagase, Makoto Hashimoto (New Japan Radio Co., Ltd), Yusuke Kawaguchi (Toshiba Electronic Devices & Storage Corporation) and Hans Juergen Mattausch (Hiroshima University)

- Optimal Sizing, Placement and Performance Analysis of DSTATCOM with Improved Controller without Current Sensors.........98
  Sanath Saralaya (St Joseph Engineering College) and Manjunatha Sharma K (National Institute of Technology Karnataka)

- Analysis of Self-Lift Luo Converter in DCM and Critical Inductance Calculation.........102
  Farzad Mohammadzadeh Shahir (University of Tabriz), Touhid Poursheykh Aliasghari (Politecnico di Milano) and Ebrahim Babaei (University of Tabriz)

- Study of Bifurcations in Luo Converter Under Closed-Loop Current-Mode Control........106
  Ashrit Swain and Sukanya Parui (IIEST Shibpur)

- Switching Correction of Direct Torque Control Method in order to Improve the Electrical Vehicle Performance Quality........110
  Farzad Mohammadzadeh Shahir (University of Tabriz), Touhid Poursheykh Aliasghari and Mehrdad Aberoumandazar (Politecnico di Milano)

- Estimation of electric field force density in water-treed XLPE insulation under variable frequency AC Voltage........114
  Priya Selvamany and Gowri Sree Varadarajan (Anna University, Chennai)

Session 8:  Circuits, Algorithms, Systems
- SEAMBA: A Semi-Approximate Multiplier using Block-Based Approach and Rounding........118
  Arnab Sarkar (Assam Engineering College, Guwahati), Rajat Bhattacharjiya, Ashish Goswami and Soumyajit Poddar (Indian Institute of Information Technology Guwahati)
• ROS on ARM Processor Embedded with FPGA for Improvement of Robotic Computing........124
  Tapas Kumar Maiti (DA-IICT)

• A Deep Neural Network Guided Testing Approach for Finite State Machines........128
  Habibur Rahaman, Santanu Chattopadhyay and Indranil Sengupta (IIT, Kharagpur)

• Performance Evaluation of Unrolled Cipher based Glitch PUF Implemented on Virtex-7........134
  Yusuke Nozaki, Shu Takemoto, Yoshiya Ikezaki and Masaya Yoshikawa (Meijo University)

• PUF Based Hardware Security: A Review..........138
  Koustav Dey, Malay Kule and Hafizur Rahaman (IIEST Shibpur)

• ECG Data Encoding for IoHT Application..........144
  Sucheta Biswas and Rakesh Biswas (Indian Institute of Information Technology, Guwahati)