

## 群馬大学主催 先端デバイス工学国際会議

小林・桑名研究室で参加・20件発表

群馬大学 電子情報部門 小林春夫

5th International Symposium of Gunma University Medical Innovation and

9th International Conference on Advanced Micro-Device Engineering,

Dec. 6, 2018 Kiryu City Performing Art Center

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<http://gumi-amde.events.gunma-u.ac.jp/GUMI-AMDE2018-Program-20181122.pdf>

- [1] L13 "Numerical Simulation for a Wind Turbine Operating with Fluctuating Wind"  
**Anna Kuwana** (Gunma University, Japan)

- [2] P029 "Biomolecular Detection Using Pyrene-Functionalized Graphene" **Shiyu Wang**,  
Md. Zakir Hossain, Takaaki Suzuki, Kazuo Shinozuka, Ryo Ichige, Anna Kuwana and  
Haruo Kobayashi, Gunma University, Japan

- [3] P056 "EMI Reduction and Output Ripple Improvement of Switching DC-DC  
Converters with Linear Swept Frequency Modulation" **Tran Minh Tri**, Miki Natsuko, Sun  
Yifei, Kobori Yasunori and Kobayashi Haruo Gunma University, Japan

- [4] P057 "EMI Noise Reduction for PFC Converter with Improved Efficiency and High  
Frequency Clock" **Noriyuki Oiwa**, Shotaro Sakurai, Ahmad Bustoni, Shogo Katayama,  
Yasunori Kobori and Haruo Kobayashi Gunma University, Japan

- [5] P058 "Four-Phase Ripple Controlled Switching Converter with EMI Noise Reduction  
Circuit" **Jing Li**, Yi Xiong, Yifei Sun, Tran Minh Tri, Yasunori Kobori and Haruo  
Kobayashi Gunma University, Japan

- [6] P059 "Spread Spectrum Technology with Automatic Notch Generation Used for  
Switching Converter" **Yifei Sun**, Yasunori Kobori and Haruo Kobayashi Gunma  
University, Japan

- [7] P060 "Phase Changing Method of Multi-Phase Buck Type Switching Converter"  
**Shogo Katayama**, Jing Li, Yasunori Kobori and Haruo Kobayashi Gunma University,  
Japan

- [8] P061 "Circuit Component Estimation in Buck Converter Using Efficiency Curve" **Shotaro Sakurai**, Nobukazu Tsukiji, Yasunori Kobori and Haruo Kobayashi Gunma University, Japan
- [9] P063 "Analysis and Design of Operational Amplifier Stability Based on Control Theory" **Jianlong Wang**, Gopal Adhikari, Nobukazu Tsukiji and Haruo Kobayashi Gunma University, Japan
- [10] P072 "Limit Cycle Manage Using Random Signal in Delta Sigma DA Modulator" **Jiang-Lin Wei**, Nene Kushita and Haruo Kobayashi Gunma University, Japan
- [11] P073 "Frequency Estimation Circuit Using Residue Number System" **Yudai Abe**, Shogo Katayama, Congbing Li, Anna Kuwana and Haruo Kobayashi Gunma University, Japan
- [12] P074 "ADC Histogram Test for Specific Codes" **Yujie Zhao**, Yuto Sasaki, Yuki Ozawa, Riho Aoki, Anna Kuwana and Haruo Kobayashi Gunma University, Japan
- [13] P075 "Numerical Simulation for Characteristic Analysis of Vertical Axis Wind Turbine" **Dan Yao**, Anna Kuwana and Haruo Kobayashi Gunma University, Japan
- [14] P076 "Integration-Type Time-to-Digital Converter Using Vernier Oscillators" **Zhang Pengfei**, Kosuke Machida, Yuto Sasaki, Yuki Ozawa, Kuwana Anna and Haruo Kobayashi Gunma University, Japan
- [15] P077 "Charge Distribution SAR ADC Architecture with Split Capacitor and Its Testing" **Riho Aoki**, Anna Kuwana and Haruo Kobayashi Gunma University, Japan
- [16] P078 "Numerical Simulation for Optimization of Unsteady Rotating Wind Turbine" **Xueyan Bai**, Anna Kuwana and Haruo Kobayashi Gunma University, Japan
- [17] P081 "SNDR Improvement Algorithms in Binary and Ternary  $\Delta\Sigma$ DAC" Kojima Junya, **Kushita Nene**, Murakami Masahiro, Kuwana Anna and Kobayashi Haruo Gunma University, Japan

[18] P082 "Second-order DWA Algorithm and Circuit Design for Multi-bit  $\Delta\Sigma$  ADC/DAC" **Yuanyang Du**, Hiroyuki Hagiwara, Masahiro Murakami, Hao San, Anna Kuwana and Haruo Kobayashi Gunma University, Tokyo City University, Japan

[19] P083 "Experimental Verification of Improved Nagata Current Mirrors" **Yukiko Shibasaki**, Mayu Hirano, Nene Kushita, Yoichi Moroshima, Hiromichi Harakawa, Takashi Oikawa, Nobukazu Tsukiji, Takashi Ida and Haruo Kobayashi Gunma University, ASO Corp. Tokyo, Japan

[20] P085 "Study on Multi-tone Signals for Analog/Mixed-Signal IC Testing" **Yukiko Shibasaki**, Koji Asami, Anna Kuwana, Kosuke Machida, Yuanyang Du, Akemi Hatta, Kazuyoshi Kubo and Haruo Kobayashi Gunma University, Oyama National College of Technology, Japan

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