

2nd International Conference

on Mechanical, Electrical and Medical Intelligent System 報告

by 群馬大学 小林春夫

General Chair: 群馬大学 藤井雄作教授

期日: 2018 年 11 月 5 日(月)

学会 HP: <http://conf.e-jikei.org/ICMEMIS2018/>

開催場所: 桐生市市民文化会館



**International Conference on
Mechanical, Electrical and Medical Intelligent System 2018 (ICMEMIS2018)**
Nov 4-6, 2018 (Kiryu, Japan)

Invited Papers Session 03

[Organizer] Prof. Haruo Kobayashi Professor, Gunma University (Japan)

[Title] **Analog/Power Supply Circuits and Their Related Technology**

[Abstract] This session is involved in analog/power supply circuits, which are key technologies for Internet-of-Things (IOT) and green environment. It covers wide range from fundamental theory to industry application, and also from basics to the state-of-the art.



Keynote

KL-13 Kenji Yamaguchi, (Ochanomizu Univ. Senior High School) Anna Kuwana, Katsuhisa Kagami, “Development and Practice of Learning Materials for Algorithms at Senior High School”

http://conf.e-jikei.org/ICMEMIS2018/proceedings/materials/proc_files/Keynote/Prof_Yamaguchi_Kenji/CameraReady_ICMEMIS2018_KN_13_Yamaguchi.pdf



Invited Paper

IPS3-01 Yuji Gendai (THine Electronics) “Fast Noise Evaluation per Code of ADC
Using the Same Ramp Signal with Linearity Measurement”

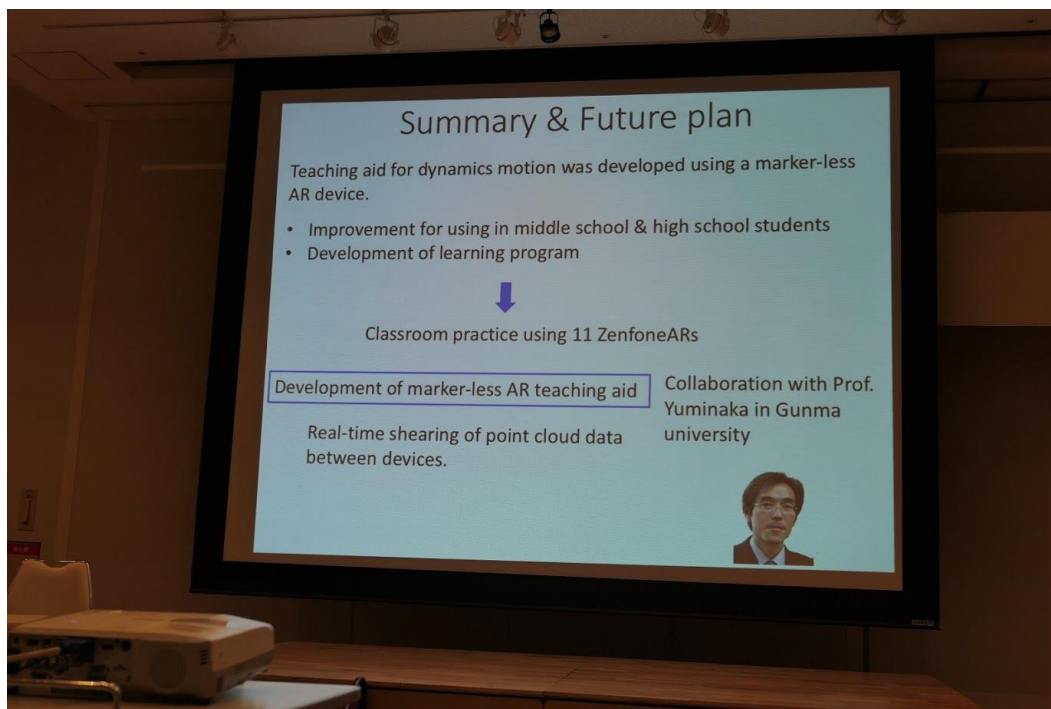
http://conf.e-jikei.org/ICMEMIS2018/proceedings/materials/proc_files/IPS/IPS03_Kobayashi/IPS03_A_001/IPS3-01manuscript.pdf



Invited Paper

IPS3-02 Yasushi Yuminaka (Gunma University), Natsuki Sato, Kohei Toyoda, Yosuke Iijima, “Signal Generation Using an FPGA and DAC for PAM-4 Serial-Link Test”

http://conf.e-jikei.org/ICMEMIS2018/proceedings/materials/proc_files/IPS/IPS03_Kobayashi/IPS03_A_002/CameraReady_ICMEMIS2018_IPS03_A002_.pdf



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IPS3-03 Chunhui Pan, Hao San (Tokyo City University)

CMOS $\Delta\Sigma$ AD Modulators using Dynamic Analog Components

http://conf.e-jikei.org/ICMEMIS2018/proceedings/materials/proc_files/IPS/IPS03_Kobayashi/IPS03_A_003/CameraReady_ICMEMIS2018_IPS03_A003.pdf



Student Paper

IPS3-04 Ahmad Bustoni, Noriyuki Oiwa, Shotaro Sakurai, Yifei Sun, Yasunori Kobori and Haruo Kobayashi, "Bridge-less Power Factor Correction Converter with Adaptive Switching Pulse Enabling Control". ([Award](#))

<http://kobaweb.ei.st.gunma-u.ac.jp/news/pdf/2018/ICMEMIS2018bustoni-paper.pdf>

<http://kobaweb.ei.st.gunma-u.ac.jp/news/pdf/2018/ICMEMIS2018bustoni-pre.pdf>



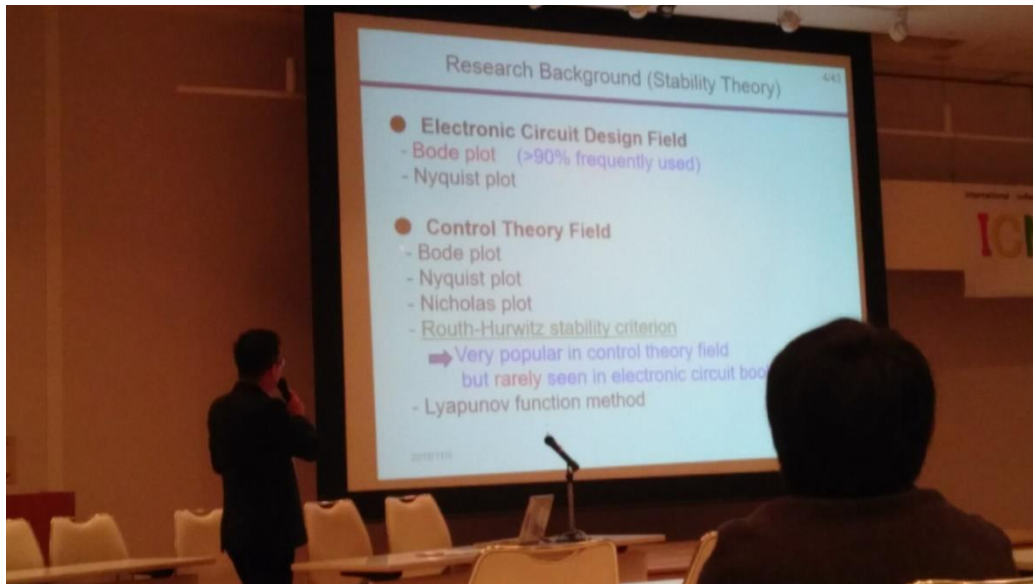
Student Paper

IPS3-05 JianLong Wang, Nobukazu Tsukiji, Haruo Kobayashi ([Award](#))

"Design of Operational Amplifier Phase Margin Using Routh-Hurwitz Method".

<http://kobaweb.ei.st.gunma-u.ac.jp/news/pdf/2018/ICMEMIS2018jianlomg-paper.pdf>

<http://kobaweb.ei.st.gunma-u.ac.jp/news/pdf/2018/ICMEMIS2018jianlomg-pre.pdf>



Student Paper

IPS3-06 Hiroyuki Hagiwara, **Yuanyang Du**, Masahiro Murakami, Hao San, Anna Kuwana, Haruo Kobayashi, "A Second-order DWA Algorithm for Multi-bit $\Delta\Sigma$ ADC/DAC".([Award](#))

<http://kobaweb.ei.st.gunma-u.ac.jp/news/pdf/2018/ICMEMIS2018hagiwara-paper.pdf>

<http://kobaweb.ei.st.gunma-u.ac.jp/news/pdf/2018/ICMEMIS2018hagiwara-pre.pdf>



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Student Paper

IPS3-07 Jing Li, Yi Xiong, Yifei Sun, Tran Minh Tri, Yasunori Kobori and Haruo Kobayashi, ([Award](#))

"Four-phase Ripple Controlled Switching Converter with EMI Noise Reduction Circuit".

<http://kobaweb.ei.st.gunma-u.ac.jp/news/pdf/2018/ICMEMIS2018jingli-paper.pdf>

<http://kobaweb.ei.st.gunma-u.ac.jp/news/pdf/2018/ICMEMIS2018jingli-pre.pdf>



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Student Paper

IPS3-08 Takashi Ida, Nobukazu Tsukiji, Yukiko Shibasaki, Anna Kuwana, Haruo Kobayashi, "MOS Reference Current Source Insensitive to Temperature Variation".(Award)|

<http://kobaweb.ei.st.gunma-u.ac.jp/news/pdf/2018/ICMEMIS2018ida-paper.pdf>

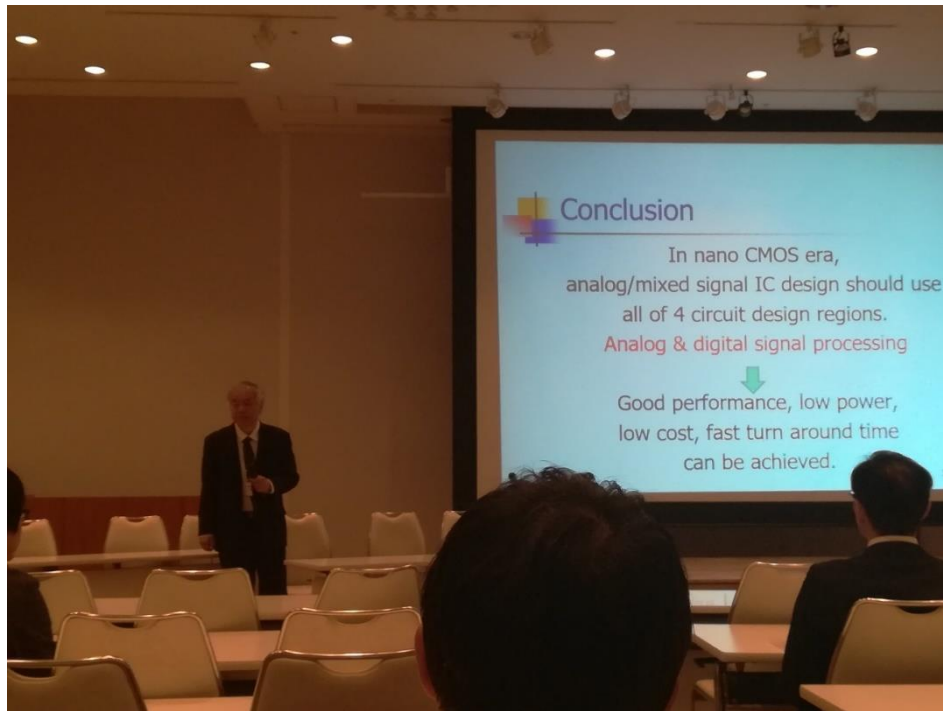
<http://kobaweb.ei.st.gunma-u.ac.jp/news/pdf/2018/ICMEMIS2018ida-pre.pdf>



Keynote Lecture

KL-11 Haruo Kobayashi, “Performance Improvement of Mixed-Signal IC Using Signal Processing Techniques”

<http://kobaweb.ei.st.gunma-u.ac.jp/news/pdf/2018/2018-11-5kobayashi.pdf>



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懇親会 酒と音楽を楽しみ 清談を交わす。竹林の七賢たらん。



この学会に参加し、多くの人が幸せになったように思う。

付録： 安徽名人館 2018 年 10 月 18 日(木)訪問

