Session Poster 2 (8/7 Wed. 15:30 – 17:00)

Room: 7F 交誼廳

1. (S0006) A 10-bit 2.27 MS/s Successive Approximation Register Analog-to-Digital Converter with eight-way switches and two control modes

   Guo-Ming Sung, Shih-Ying Hsu, Jun-Min Xu, and Cheng Chih-Ping Yu

   National Taipei University of Technology

2. (S0007) Gate Driver Circuit for three-phase Brushless DC Motor

   Guo-Ming Sung, Zhao-Long Chen, Meng-Lun Li, and Cheng Chih-Ping Yu

   National Taipei University of Technology

3. (S0008) A 12-bit 100-kS/s Synchronous-SAR ADC for IoT Applications

   Jiun-Wei Lai, Min-Sheng Chiang, and Yung-Hui Chung

   National Taiwan University of Science and Technology

4. (S0009) A High-Efficiency Current-Mode-Hysteretic Buck Converter with Constant-Frequency-Controlled Techniques

   Yun-Hua Li and Jiann-Jong Chen

   National Taipei University of Technology

5. (S0011) A Fast-Transient Response Hysteretic-Controlled Buck Converter with New Integral Current-Sensing Techniques

   Wei-Chieh Hsu and Jiann-Jong Chen

   National Taipei University of Technology

6. (S0024) Using 3D-PCB Stacking System to Design a Low-Power Two-Lenses Wireless Panoramic Micro-Endoscopy

   Ching-Hwa Cheng (1), Xiang-Ren Yang (1), and Jiun-In Guo (2)

   (1) Feng-Chia University and (2) National Chiao Tung University

7. (S0027) A High-Switching-Frequency Current-Mode Buck Converter With PLL-Based

Hysteresis-Controlled Techniques

Min-En Wu and Jiann-Jong Chen

National Taipei University of Technology

8. (S0033) A Hysteresis-Controlled Buck Converter with Phase-Frequency-Locked Technique and New Active Integral Current-Sensing Technique

   Cheng-Pu Hsieh (1) , Yuh-Shyan Hwang (1), and Ming-Shian Lin (2)

   (1) National Taipei University of Technology and (2) National Chung-Shan Institute of Science and Technology

9. (S0038) 256-step Current Dimming Chip Design for High Power LED Driver

   Shih-Chang Hsia, Yu-Kai Yeh, and Jing-Jyun Peng

   National Yunlin University of Science and Technology

10. (S0046) A Digital Boost PFC Converter with Mixed Conduction Mode Operation

    Heng-Ci Lin, Chun-Yu Chen, Chien-Hung Tsai, and Siou-Sian Lin

National Cheng Kung University

11. (S0053) High-Efficiency Boost Converter with a Novel Zero Current Detector

Hou-Ming Chen, Yu-Hui Lin, Yong-Xin Lin, He-Sheng Fu, and Hsien-Chi Huang

National Formosa University

12. (S0054) An Ultra-Wide-Bandwidth Hybrid Supply Modulator for 5G

Cheng-Lin Hsieh and Yuh-Shyan Hwang

National Taipei University of Technology

13. (S0057) A Constant On-Time Buck Converter with Spread Spectrum Clock Generator

Yo-Da Lin, Jing-Yuan Lin, and Huang-Jen Chiu

National Taiwan University of Science and Technology

14. (S0059) A D/A Converter Composed of a Hybrid Sturdy MASH-21 Delta-Sigma Modulator and a Class-D Amplifier for Earphones

Yun-Chen Law and Chia-Yu Yao

National Taiwan University of Science and Technology

15. (S0062) A 13.56MHz Dual-Output Regulated Active Rectifier with Pulse-Skip Modulation for Implantable Medical Devices

    Fu-Bin Yang, Wei-Hsuan Hsu, Bing-Jen Wu, and Po-Hung Chen

    National Chiao Tung University

16. (S0065) A Wide-Input Range High-Efficiency Single-Inductor Dual-Input Energy Harvesting Interface for Multi-Source Energy Harvesting

    Chi-Wei Liu, Dao-Han Yao, and Po-Hung Chen

    National Chiao Tung University

17. (S0066) Capacitance Mismatch Calibration Algorithm based on Least Square and Iterative Methods for an Energy-efficient Monotonic Switching SAR ADC

    Shin-Chi Lai (1), Yu-Yun Xiao (2), Yu-Syuan Jhang (2), and Ming-Hwa Sheu (2)

    (1) Nanhua University and (2) National Yunlin University of Science and Technology

18. (S0067) All-Digital CMOS Pulse-Shrinking Smart Temperature Sensor with Improved Accuracy

    Kai-Hsiang Chang and Chun-Chi Chen

    National Kaohsiung University of Science and Technology

19. (S0071) Output Capacitor-less Low-Dropout Regulator with Adaptive Power Transistors Technique and Feedforward Path Compensation

    Jian-Jiun Chen and Shao-Ku Kao

    Chang Gung University

20. (S0079) A 4th-Order Sigma Delta Modulator for Audio Application

    Jia-Xun Li and Chung-Chih Hung

    National Chiao Tung University

21. (S0093) A Single-Inductor Triple-Input Dual-Output DC-DC Converter for Photovoltaic and Piezoelectric Energy Harvesting Systems

    I-Chou Chen, Che-Wei Liang, and Tsung-Heng Tsai

National Chung Cheng University

22. (S0115) A Power-Efficient Highly-Linear Reconfigurable OTA-C Filter with ODQDPs

Hui-Chun Huang, Yi-Heng Wu, Jyun-Hao Huang, and Sheng-Yu Peng

National Taiwan University of Science and Technology

23. (S0143) Improve the Drift Effect of RuO2 Urea Biosensor Based on Voltage Regulation Method

Zhe-Xin Dong and Po-Yu Kuo

National Yunlin University of Science and Technology

24. (S0158) Buck Converter with Active-Current-Sensing Technique

Jia-Ming Lin and Yuh-shyan Hwang

National Taipei University of Technology

25. (S0161) A High Conversion Rate Time-to-Digital Converter

Sheng-Kai Lo, Yu-Wei Lin, and Lih-Yih Chiou

National Cheng Kung University

26. (S0174) An Energy-Efficient 12b 20MS/s Time-Interleaved SAR ADC

27. (S0185) A High Power-Efficient and Reconfigurable Buffer Amplifier

Hui-Chun Huang, Zu-Jia Lo, Tzu-Hao Li, and Sheng-Yu Peng

National Taiwan University of Science and Technology

28. (S0200) A Multi-Channel Current-Mode Functional Electrical Stimulator with Dual-Shape Selection For Deep Brain Stimulation

Huang-Hsiang Chang, Yi-Ching Lu, and Sheng-Yu Peng

National Taiwan University of Science and Technology

29. (S0217) A Fast-Transient Switched-Capacitor DC-DC Converter with a Current Sensing Control Technique

Chi-Wei Chen, Hsin-Shu Chen, and Wen-Jong Wu

National Taiwan University