Session Title:	[P1] Interactive Forum I (Poster)
Session Date:	December 3 (Wed.), 2025
Session Time:	15:00-16:40
Session Room:	3F Lobby

[P1-001]

Extrapolation of the Avalanche Frequency in Noise-Source Diodes from Conventional 130 nm SiGe HBT Test Structures

Luca Menicucci Salamanca (IHP – Leibniz Institute for High Performance Microelectronics, Germany); Giacomo Schiavolini (Department of Engineering, University of Perugia, Italy); Seyyid Dilek (IHP – Leibniz Institute for High Performance Microelectronics, Germany); Giulia Orecchini (Department of Engineering, University of Perugia, Italy); Gunter Fischer (IHP – Leibniz Institute for High Performance Microelectronics, Germany); Federico Alimenti (Department of Engineering, University of Perugia, Italy); Corrado Carta (IHP – Leibniz Institute for High Performance Microelectronics & Technische Universität Berlin, Germany)

[P1-002]

High Fmax × Lg of AlGaN/GaN HEMTs with a Micro Field-Plate T-Shape Gate of Lg = 0.6 *M*m

Xuejing Yang (Korea Advanced Institute of Science and Technology (KAIST), Korea (South)); Kyounghoon Yang (KAIST, Korea (South)); Kiwon Lee (Won Kwang University, Korea (South)); Yongsik Jeong (KAIST, Korea (South)); SuMin Choi (Kyungpook National University, Korea (South)); Dae-Hyun Kim (Kyungpook National University, Germany); Wan-Soo Park (Kyungpook National University, Korea (South))

[P1-003]

Fmax of 411 GHz in $Al_{0.4}Ga_{0.6}N$/GaN HEMTs with $Al_{0.08}Ga_{0.92}N$ Back-Barrier for Future RF Applications

Wan-Soo Park and Hyeok-Jun Lee (Kyungpook National University, Korea (South)); Tae-Woo Kim (Texas Tech University, USA); Jae-Hak Lee (Kyungpook National University, Korea (South)); Kyounghoon Yang (KAIST, Korea (South)); Dae-Hyun Kim (Kyungpook National University, Korea (South))

[P1-004]

A Bidirectional Programmable Metasurface Unit with Switchable Transmission and Reflection Modes

Sen Zheng and Hui Feng Ma (Southeast University, China)

[P1-005]

A Highly Linear GaN LNA with 0.89 dB Noise Figure for 5G Networks

Siddharth Thakur (Indian Institute of Technology Kanpur, India); Md Hasnain Ansari (Indian Institute of Technology, India); Nagaditya Poluri (Indian Institute of Technology Kanpur, India & The University of Sheffield, United Kingdom (Great Britain)); Yogesh Chauhan (Indian Institute Of Technology, India)

[P1-006]

Fast-Switching Infinite Phase Shifter Using Dual Complementary Folding Circuits

Anji Miura, Yotaro Mune, Asaka Kobayashi and Hideyuki Nosaka (Ritsumeikan University, Japan)

[P1-007]

A 180º Phase-Shifting CMOS Reflection Amplifier for 6G Active Reconfigurable Intelligent Surface

Euiseong Kim (Jeonbuk National University, Korea (South)); Donggu Im (Chonbuk National University, Korea (South)); Seokgyu Lee, Yaehoon Roh, Jung-Mu Kim and Hae-Won Son (Jeonbuk National University, Korea (South)); Ilku Nam (Pusan National University, Korea (South))

[P1-008]

An Ultra-Wideband Rectifier Based on a Novel Broadband Impedance Self-Resonant Network

Haoxuan Long (Guangdong University of Technology, China); Jinlin Yang (Guangdong Polytechnic Normal University, China); Jian Liu (Guangdong University of Technology, China)

[P1-009]

60 Gb/s Transimpedance Amplifiers with Emitter-Follower and Folded-Cascode Interstage Configurations in 22-nm FDSOI

Volkan Erturk (IHP-Leibniz-Institut für innovative Mikroelektronik, Germany); Corrado Carta (IHP - Leibniz Institut für Innovative Mikroelektronik, Germany & Technische Universität Berlin, Germany); Batuhan Sütbaş (IHP - Leibniz Institute for High Performance Microelectronics, Germany); Aniello Franzese (IHP - Leibniz -İnstitut Für Innavtive MikroElektronik, Germany); Arzu Ergintav (IHP GmbH, Germany); Mesut Inac (IHP - Leibniz-Institute Für Innovative MikroElektronik, Germany)

[P1-010]

A 2-6 GHz 10 W High-Power GaN Power Amplifier Using Extended Matching Technique

Yu-Chun Lin (National Taiwn University, Taiwan); Chun-Wei Lin and Kun-You Lin (National Taiwan University, Taiwan)

[P1-011]

A Low-Power TSPC-PRBS Generator in 12 nm FinFET Bulk CMOS

Kai Scheller, Konstantin Vilyuk, Philip Hetterle, Jonas Weninger and Andre Engelmann (Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany); Robert Weigel (Friedrich-Alexander Universität Erlangen-Nürnberg, Germany); Albert-Marcel Schrotz and Norman Franchi (Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany)

[P1-012]

An X-Band LNA with High-Linearity and Improved Gain Flatness in 0.15 μm GaAs pHEMT Process

Leyi Ka (Southeast University, China); Yao Li (South China University of Technology, China)

[P1-013]

An X-Band GaAs Low Noise Amplifier

Dong-Ho Lee (Hanbat National University, Korea (South))

[P1-014]

A Tunable Multi-Inductor Coupling 2.0-6.6 GHz Compact CMOS Ultra-Wideband Fourth-Order Bandpass Filter Based on Q-Enhanced Technique

Lei Zhang, Qian Zhang, Xiaoxian Liu and Zhangming Zhu (Xidian University, China)

[P1-015]

Direct Wideband Matching Technique for Nonlinear Multistage Power Amplifiers

Alexander Deublein (Institute for Smart Electronics and Systems, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany); Michael Loose (Institute for Electronics Engineering, Germany); David Riess (Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany); Christian Musolff (University of Erlangen-Nuremberg, Germany); Robert Weigel (Friedrich-Alexander Universität Erlangen-Nürnberg, Germany); Georg Fischer (Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany); Christof Pfannenmüller (Friedrich-Alexander-Universität Erlangen-Nürnberg & Institute for Electronics Engineering, Germany); Norman Franchi (Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany)

[P1-016]

Fractional-N Sampling Phase-Locked Loop with Time Domain Sign Generation Using Aux-DTC and Fast Locking AFC

Juwon Choi, Ibrar ali Wahla, Seunghyun Kang and Jonghoon Park (Kangwon University, Korea (South)); Shinwoong Kim (Handong Global University, Korea (South)); In-Chul Hwang (Kangwon National University, Korea (South))

[P1-017]

1.75-43.75 GHz N-Path Harmonic Mixer with Folded Noise Cancellation

Yuki Tsukui, Yoshiaki Morino and Kazutomi Mori (Mitsubishi Electric Corporation, Japan); Takuma Torii (Mitsubishi Electric, Japan); Akihito Hirai and Koji Yamanaka (Mitsubishi Electric Corporation, Japan); Tomoyuki Furuichi and Noriharu Suematsu (Tohoku University, Japan)

[P1-018]

D-Band ×8 Beamforming Frequency Multiplier Chain with GM-Boosting Doubler and PCPP

Kangseop Lee (POSTECH, Korea (South) & Institute of Artificial Intelligence, Korea (South))

[P1-019]

A 57μW Logarithmic RF Voltage Detector Integrated with High-Voltage RF Switch

Ting-Li Hsu (Technical University of Munich, Germany); Valentyn Solomko (Infineon Technologies, Germany); Amelie Hagelauer (Technical University of Munich, Germany)

[P1-020]

A Digitally Calibrated Two-Point Modulator with on-Chip Gain Calibration for BLE Applications

HoWon Kim, Yeon Jae Jeong, Seok Kee Kim and Kang-Yoon Lee (Sungkyunkwan University, Korea (South))

[P1-021]

A 50mW Low Power 2-Channel 15-17GHz Receiver with 6.0 dB NF for Ku Band FMCW Radar

Junyeon Won, Yoseong Nam, Chanho Jung and Su-bin Choi (Chung-Ang University, Korea (South)); Donghyun Baek (Chung-ang University, Korea (South))

[P1-022]

A Highly Integrated CMOS Dicke Radiometer IC for Remote Thermometer Applications

JIN MO Kim (Kwangwoon University, Korea (South))

[P1-023]

Enhanced RF Performance of Dual-Gate GaN HEMTs

Sanghoon Park (Kumamoto University, Japan); Debaleen Biswas (University of Chicago, USA); Yuji Ando and Hidemasa Takahashi (Nagoya University, Japan); Akio Wakejima (Kumamoto University, Japan)

[P1-024]

6-18 GHz GaN High Power Amplifier MMIC for Multi-Function Radar Application

Moongyu Kim, Kyungdong Bae, Yoonjung Lee and Youngoo Yang (Sungkyunkwan University, Korea (South))

[P1-025]

Optimization of Ohmic Contact for AlGaN/GaN HEMTs Using Dielectric Passivation

Iju Kim, Ki-Jin Kim and Hyeon-Bhin Jo (Korea Electronics Technology Institute, Korea (South))

[P1-026]

A 2.4 GHz-Band Amplifier with β-Ga_2O_3 MESFET Fabricated by Mist CVD Method

Hikaru Ikeda, Shizuo Fujita, Katsuhisa Tanaka and Takeru Wakamatsu (Kyoto University, Japan); Yuji Ando, Hidemasa Takahashi, Ryutaro Makisako and Jun Suda (Nagoya University, Japan); Tetsuzo Ueda and Hidetaka Sugaya (Panasonic, Japan)

[P1-027]

Novel Dual-Modulation Out-Phasing Power Amplifier with Arbitrary Loop Network

Yixi Tang (South China University of Technology, China); Wenjie Feng (Nanjing University of Science and Technology, China); Weiwei Wang (Hangzhou Dianzi University, China); Wenquan Che (South China University of Technology, China)

[P1-028]

Reflective Analog Predistorter with Independent Tunable Gain and Improved Insertion Loss

Pengyu YU (The Chinese University of Hong Kong, Hong Kong); Kwok-keung (Michael) Cheng (Chinese University of Hong Kong, Hong Kong); Pengde Wu (Hangzhou Dianzi University, China); Jieen Xie (The Chinese University of Hong Kong, Hong Kong)

[P1-029]

A 10W QFN Packaged CCF GaN MMIC Power Amplifier for UAV Applications

Avinash Singh (IIT Roorkee, India); Machavaram V. Kartikeyan (Indian Institute of Technology, Roorkee, India); Karun Rawat (Indian Institute of Technology Roorkee, India)

[P1-030]

2-Stage GaN MMIC Amplifier in General Purpose Power Transistor Package for 4.25GHz 20W Microwave Power Source

Sei Mizojiri and Kazuya Yaginuma (Pale Blue Inc., Japan); Kohei Fujiwara and Takashi Kondo (Tokyo Metropolitan Industrial Technology Research Institute, Japan); Shinji Hara and Noriyuki Tanba (Nagoya University, Japan)

[P1-031]

Enhanced Performance of AlN/GaN HEMTs via Novel LPCVD-Based Sub-Gate Oxidation

Zhiyong Liu, Jiejie Zhu, Lingjie Qin, Bowen Zhang, Mengdi Li, Boxuan Gao and Xiaohua Ma (Xidian University, China)

[P1-032]

Design and Bias Network Optimization of a Ka-Band CMOS Power Amplifier with 32.5% Modulation PAE Supporting 64-QAM

En-Lin Hong, Ji-Hao Huang, Kai-Jie Chuang, Yi-Wen Wang, Ting-Yu Chang and Tian-Wei Huang (National Taiwan University, Taiwan)

[P1-033]

W-Band Mixer-First Receiver Using Floating Body Switches in 28-nm CMOS

Kyubin Choi, Younghan Lee, Seungmo Noh, Sungjun Lee, Junyeop Kim and Wooyeol Choi (Seoul National University, Korea (South))

[P1-034]

Nonlinear Modeling and Frequency Multiplication Characteristic of Quasi-Vertical Diamond SBD in L-Band

Kosuke Saito, Ryunosuke Saito and Tomoyuki Furuichi (Tohoku University, Japan); Hitoshi Umezawa and Yuji Kato (Ookuma Diamond Device Co., Ltd., Japan); Noriharu Suematsu (Tohoku University, Japan)

[P1-035]

A Coupled Oscillator Arrays for D-Band Scalable Phased Arrays

Xiangao Meng (University of Electronic Science and Technology of China, China); Yinian Feng (UESTC, China & ESE, China); Jun Yuan, Bingli Dai, Bo Zhang and Cheng Wang (University of Electronic Science and Technology of China, China)

[P1-036]

A 56~81 GHz Frequency Quadrupler with 19.4 dB Conversion Gain and 8.07 dBm Output Power Using Harmonic Trap in 28nm CMOS

Yuchi Liu, Jiacheng Guo and Yuan Du (Nanjing University, China)

[P1-037]

A Power-Efficient mm-Wave Divide-by-16 Frequency Divider in SiGe BiCMOS Technology

Matthias Moeck (Karlsruhe Institute of Technology (KIT), Germany); Benedict Baschang and Ahmet Cagri Ulusoy (Karlsruhe Institute of Technology, Germany)

[P1-038]

A Q-Band -4 dBm Output Power Passive Frequency Tripler Using Stacked APDNP

Ryunosuke Saito, Ryosei Miyagawa, Yuki Fujiya, Tomoyuki Furuichi and Noriharu Suematsu (Tohoku University, Japan)

[P1-039]

A V-Band Four-Channel Phased-Array Beamforming Transmitter with Integrated Antenna Array

Hyun-Sik Hwang (Korea Advanced Institute of Science and Technology, Korea (South)); Cheol So (University of California, Santa Barbara, USA); Songcheol Hong (Korea Advanced Institute of Science & Technology, USA)

[P1-040]

Design of a 135-GHz Single-Ended Amplifier Using Coupled-Line and Capacitive Neutralization for Improved Stability and Gain

Taewon Kim, Jeongho Jang and Munkyo Seo (Sungkyunkwan University, Korea (South))

[P1-041]

An Investigation of the Low-Power Capability of SiGe HBTs in V-Band LNA Design

Xin Xu (TU Dresden, Germany); Jens Wagner (Technische Universität Dresden & Chair for Circuit Design and Network Theory, Germany); Frank Ellinger (Technische Universität Dresden, Germany)

[P1-042]

A 300-GHz Voltage-Controlled Oscillator Using a Coupled-Line Resonator with 177.6-dBc/Hz FoM and 5.6-dBm Peak Output Power

Hyunjoon Kim (Korea University, Korea (South)); Dongkyo Kim (Dong-A University, Korea (South)); Sanggeun Jeon (Korea University, Korea (South))

[P1-043]

A 120-230 GHz Low Phase Imbalance Asymmetric Marchand Balun in a SiGe BiCMOS Technology

Daniele Ursini and Batuhan Sütbaş (IHP – Leibniz Institute for High Performance Microelectronics, Germany); Habeeb Bello (Ahmadu Bello University, Nigeria); Leonardo Pantoli (University of Laquila, Italy); Giorgio Leuzzi (University of L'Aquila, Italy); Corrado Carta (IHP – Leibniz Institut für Innovative Mikroelektronik, Germany & Technische Universität Berlin, Germany)

[P1-044]

A 36 Gbit/s 15.6 fJ/Bit FoM TSPC 2:1 Multiplexer for High-Speed Serial Links in 22 nm FDSOI

Jonas Weninger, Florian Probst, Alexander Spielberger, Andre Engelmann and Albert-Marcel Schrotz (Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany); Robert Weigel (Friedrich-Alexander Universität Erlangen-Nürnberg, Germany); Norman Franchi (Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany)

[P1-045]

A 600-GHz Heterodyne Receiver Based on 28-nm CMOS Technology

Jaewon Jang, Jaeman Lee, Minseok Choi, Youngkyu Lee and Jae-Sung Rieh (Korea University, Korea (South))

[P1-046]

Doherty Power Amplifier and Patch Antenna on-Chip Integration on GaN-HEMT at Ka-Band

Zi-Jian Li, Qiu Yuan, Qing Luo and Xiaowei Zhu (Southeast University, China)

[P1-047]

A 22.6-28.3-GHz LNA with 22.1-dB Gain and 1.94-dB Noise Figure Using 90-nm CMOS Technology

Yi-Chi Li, Yunshan Wang and Yu-Hsiang Cheng (National Taiwan University, Taiwan)

[P1-048]

A Compact D-Band Power Amplifier with Reverse- Phase Coupling Transformer in 28nm CMOS

Jizhao Li, Jiacheng Guo and Yuan Du (Nanjing University, China)

[P1-049]

Validation of an Open-Source RFIC Design Flow Using a 130 GHz Low-Noise Amplifier

Gianluca Simone, Martin Grund, Manuel Koch and Sascha Breun (Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany); Robert Weigel (Friedrich-Alexander Universität Erlangen-Nürnberg, Germany); Norman Franchi (Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany)

[P1-050]

A Wideband 0.103mm2 Edge Combining Based Frequency Quintupler Covering 10-60GHz

Han Huang, Haoyu Bai, Jiazheng Zhou, Dong Wang, Jiaqi He, Sihao Zhang, Junhua Liu and Huailin Liao (Peking University, China)

[P1-051]

Development of 75-110 GHz Front-End LNA Module for the 19-Pixel Radio-Astronomical Imaging Array

Yen-Lin Chen (National Tsing Hua University, Engineering and System Science, Taiwan); Tzihong Chiueh (National Taiwan University Physics, Taiwan); Yu-Shao Jerry Shiao (Taiwan Semiconductor Research Institute, Taiwan)

[P1-052]

A 323.2 GHz Detector Using Harmonic Injection Locking with Polarization Diversity in 40nm CMOS

Jiacheng Xie, Yiyang Shu and Xun Luo (University of Electronic Science and Technology of China, China)

[P1-053]

Design of D-Band Active SIW Slot Array Transceiver System Based on HDI Technology

Shijie Xiang (Southeast University, China); Xiaoyi Liu, Yihui Wang and Hongfu Meng (Southeast University, China)

[P1-054]

Planar Pattern Reconfigurable Complementary Antenna for 5G-NR Communication

Jiawen You, Zhan Wang and Yuandan Dong (University of Electronic Science and Technology of China, China)

[P1-055]

Active Reflection Coefficient Cancellation Method for Phased Arrays

Yongzheng Li (South China University of Technology, China); Wanchen Yang (Nanjing University of Aeronautics and Astronautics, China); Quan Xue and Wenquan Che (South China University of Technology, China)

[P1-056]

A $\Delta\Sigma$ Frequency-to-Digital Converter Based Sub-Sampling DPLL Without Extra Modules in Auxiliary Loop

Jonghoon Park, Juwon Choi, Seunghyun Kang, Young ryul Yun and Ibrar ali Wahla (Kangwon University, Korea (South)); In-Chul Hwang (Kangwon National University, Korea (South))

[P1-057]

A High-Tolerance and Thickness-Adjustable PCB-Based Microstrip-to-Waveguide Transition Design

Jianhan Zhang, Xiaohe Cheng and Yuan Yao (Beijing University of Posts and Telecommunications, China)

[P1-058]

Digital-Assisted Canceler for MIMO in-Band Full-Duplex Radio

Yiqiu Liang, Honfji Fan, Zhiqiang Yu and Jianyi Zhou (Southeast University, China)

[P1-059]

Unified Compact Load Network for Broadband Doherty Power Amplifier with Enhanced Back-off

Yoonjung Lee (Sungkyunkwan University, Korea (South)); Woojin Choi, Yifei Chen and Jaekyung Shin (Samsung Electronics Company Ltd., Korea (South)); Youngoo Yang (Sungkyunkwan University, Korea (South))

[P1-060]

Multi-*VT* $In_{0.14}Al_{0.86}N$/AlN/GaN HEMTs with Damage-Free and Reproducible Gate Recess Process

SuMin Choi, Hyeok-Jun Lee, Wan-Soo Park and In-Geun Lee (Kyungpook National University, Korea (South)); Hyeok-Min Kwon (Hankyong National University, Korea (South)); Tae-Woo Kim (Texas Tech University, USA); Jae-Hak Lee (Kyungpook National University, Korea (South)); Kyounghoon Yang (KAIST, Korea (South)); Dae-Hyun Kim (Kyungpook National University, Germany)

[P1-061]

Robust Hybrid Beamforming with Mutual Coupling Compensation for mmWave MIMO

Mengyu Zhang (Friedrich-Alexander-University Erlangen-Nürnberg, Germany); Robert Weigel (Friedrich-Alexander Universität Erlangen-Nürnberg, Germany); Norman Franchi and Torsten Reissland (Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany)

[P1-062]

Measurement Method of High Time-Resolution Power Delay Profile Using in-Band and Out-of-Band Spectrums Under Local 5G System Operation

Takashi Shiba and Tori Inoue (Tohoku University, Japan); Gustavo Pedroso Cainelli (Institut Fur Automation Und Kommunikation, Germany); Sven Müller (Demag Cranes and Components GmbH, Germany); Tomoyuki Furuichi (Tohoku University, Japan); Nils Kranefeld (Demag Cranes and Components GmbH, Germany); Fumiko Ohori and Taketoshi Nakajima (National Institute of Information and Communications Technology, Japan); Giuliano Persico (Demag Cranes & Components GmbH, Germany); Lisa Underberg (Ifak, Germany); Satoko Itaya (National Institute of Information and Communications Technology, Japan); Noriharu Suematsu (Tohoku University, Japan)

[P1-063]

A 60 GHz Four-Channel OAM Multiplexing Antenna Array for Short-Range Communication

Yuhan Wang, Xiaohe Cheng and Yuan Yao (Beijing University of Posts and Telecommunications, China)

[P1-064]

Affordable Non-Contact Respiration Monitoring Using Wi-Fi CSI and Doppler Radar: a Performance-Cost Trade-off for Resource-Limited Settings

Abrar Zarif, Hasin Rayhan, Sourav Kumar Pramanik and Shekh Md Mahmudul Islam (University of Dhaka, Bangladesh)

[P1-065]

Indoor Localization Using Extended Kalman Filter with Time-of-Arrival Measurements

Lang Zhang, Ze Li, Zengshan Tian and Yu Zhang (Chongqing University of Posts and Telecommunications, China)

[P1-066]

Millimeter-Wave Radar Super-Resolution Forward-Looking Imaging via Low-Rank Sparse Optimization

Yanjun Zhang, Jun Tao and Jiang Liu (Southeast University, China); Jie Li (Nanjing University of Aeronautics and Astronautics, China); Zhanye Chen (Southeast University, China); Yan Huang (Southeast University, Nanjing, China)

[P1-067]

Optimal Estimation of Adjacent Waves Based on Observed Wave Data Using a Kalman Filter

SeungJun Kim (National Korea Maritime & Ocean University, Korea (South)); Jang Ju Su (MOASOFT, Korea (South)); You Seok Yeoh (Korea Maritime & Ocean University, Korea (South)); Min Cheol Paek and Seong Been Jang (National Korea Maritime & Ocean University, Korea (South)); Kyeong-sik Min (Korea Maritime and Ocean University, Korea (South))

[P1-068]

Ego Vehicle Speed Estimation Using Temporal Regularization on Sequential Range-Doppler Maps

Soyun Lee, Byungkwan Kim, Sun-Ji Oh and Seo-Hyun Park (Chungnam National University, Korea (South))

[P1-069]

Impact of 5G Adjacent Band Emissions on FSS Downlink Performance

Hyo-Won Lee and Ga-Yeong Park (KAIST, Korea (South)); Ji-Young Kim and Sungjun Cho (Korea Advanced Institute of Science and Technology, Korea (South)); Jong-Won Yu (KAIST, Korea (South))

[P1-070]

Development of V-Band Direct-Digital RF Rx-Antenna for Digital Beamforming

Yoshiaki Morino, Akihito Hirai, Yuki Tsukui and Kazutomi Mori (Mitsubishi Electric Corporation, Japan); Tomoyuki Furuichi, Satoshi Tsukamoto and Noriharu Suematsu (Tohoku University, Japan); Koji Yamanaka (Mitsubishi Electric Corporation, Japan)

[P1-071]

Spaceborne SAR Interference Suppression Based on a Digital Subband Filter Model

Xuezhi Chen (Southeast University, China); Xutao Yu (Southest Uni. National Mobile Communication Research Laboratory, China); Yuan Mao, Xinyu Guan and Jiale Chen (Southeast University, China); Yan Huang (Southeast University, Nanjing, China)

[P1-072]

Proton Irradiation Enhanced and Degraded Performance of GaN Power Amplifier Circuits

Shao-Chun Huang, Yi-Lun Huang, Yuan-Hung Huang and Chao-Hsin Wu (National Taiwan University, Taiwan)

[P1-073]

System-Level Throughput of Multi-UAV Wireless Networks Considering Altitude and Density

Kosuke Asai, Shota Muroki and Fumiaki Maehara (Waseda University, Japan)

[P1-074]

Thermal Diffusion Effect by Increasing Gate-Pitch for 4.25GHz 50W Microwave Power Source

Noriyuki Tanba and Shinji Hara (Nagoya University, Japan); Sei Mizojiri and Kazuya Yaginuma (Pale Blue Inc., Japan); Kohei Fujiwara and Takashi Kondo (Tokyo Metropolitan Industrial Technology Research Institute, Japan)

[P1-075]

Analysis on GNSS Microwave Scattering Signals from Surface in Snow-Covered

Jie Li, Feng Wang and Dongkai Yang (Beihang University, China)

[P1-076]

A High-Tolerance Planar Coupler Based on BGA Process for Low-Cost Phased Array

Chao Tang (Chongqing University Of Posts And Telecommunications, China); Zongrui He (University of Electronic Science and Technology of China, China); Wei Nie (Chongqing University of Posts and Telecommunications, China)

[P1-077]

Evaluation of Ku-Band Geostationary Satellite Link Latency Under Tropical Rainfall

Yasser Asrul Ahmad (IIUM, Malaysia)

[P1-078]

Predicting Amplifier Intermodulation Distortion from Single-Tone Measurement/Simulation

Ryoko Kishikawa (National Institute of Advanced Industrial Science and Technology & The Graduate University of Advanced Studies, Japan); Korkut K Tokgöz (Sabanci University, Turkey & Evrim Co. Ltd., Japan); Hiroyuki Ito (Tokyo Institute of Technology, Japan); Shuhei Amakawa (Hiroshima University, Japan)

[P1-079]

A Study of Wireless Signal Connection Between Microstrip Lines with Open Ends

Atsushi Oyama, Teruo Tobana and Kohei Akimoto (Akita Prefectural University, Japan)

[P1-080]

State Transfer Adaptive Matching Network Architecture (STA-MNA) Based on Deep Learning Used in RF Systems

Kun Wang, Jin Jiao and Cheng Zhou (Southeast University, China); Hongxin Zhao (State Key Laboratory of Millimeter Waves, Southeast University, China)

[P1-081]

Common- and Differential-Mode Loop Gains by Two Wave Probes for Closed-Loop Stability Analysis

Robert (Shu-I) Hu (National Chiao Tung University, Taiwan); Ying Chen (University of California at Davis, USA); Chih-Cheng Chang (National Yang Ming Chiao Tung University, Taiwan)

[P1-082]

Responses of Voltage and Current Excitations from the Eight-Port Wave Probe's Perspective for Closed-Loop Circuit Stability Analysis

Robert (Shu-I) Hu (National Chiao Tung University, Taiwan); Ying Chen (University of California at Davis, USA); Chin-Chi Lin and Chih-Cheng Chang (National Yang Ming Chiao Tung University, Taiwan)

[P1-083]

Medium-Power Amplifier for the 17-22 GHz Band Designed for High oIP3

Giovanni Di Pietrantonio (IHP – Leibniz Institute for High Performance Microelectronics, Germany); Andrea Malignaggi (IHP, Germany); Corrado Carta (IHP – Leibniz Institut für Innovative Mikroelektronik, Germany & Technische Universität Berlin, Germany)

[P1-084]

Research on the CARL-RTDETR Model for Lightweight Object Detection in Complex SAR Scenarios

Zhaoyu Liu, Wei Chen and Yang Lixia (Anhui University, China)

[P1-085]

Theoretical Analysis of High Efficiency Power Amplifier with Double Injected Envelope Components

Yasunori Suzuki, Kiyotaka Komoku, Jun Furuta and Nobuyuki Itoh (Okayama Prefectural University, Japan)

[P1-086]

Sheet Beam Focusing Simulation of Cold Cathode Field Emitter for Planar TWT Applications

Si Eun Han (Ulsan National Institute of Science and Technology (UNIST), Korea (South)); EunMi Choi and Mincheal Kim (UNIST, Korea (South))

[P1-087]

Comparative Study of E-Mode HEMTs Based on Single-Stack and Multi-Stack Charge-Trap Layers

Dogyun An (KETI, Korea (South)); Hyeon-Bhin Jo (Korea Electronics Technology Institute, Korea (South))

[P1-088]

A Study on Quasi-Vertical GaN SBD for Dependence of Schottky Metal and Drift Layer Thickness

Seongmin Kang (Korea Electronics Technology Institute (KETI), Korea (South))

[P1-089]

Two-Level Beam Selection Algorithm for mmWave Wireless Power Transfer Systems

Seungsu Chung, Jaeyeon Ha and Jaehyun Park (Pukyong National University, Korea (South)); Jae Cheol Park (ETRI, Korea (South)); Jung Ick Moon (Electronics and Telecommunications Research Institute, Korea (South))

[P1-090]

A Low-Complexity Reconfigurable Rectifier Optimized for DC-DC Converter Integrated RF Energy Harvesting Systems

Prakash Gundabathina (National Yang Ming Chiao Tung University, Taiwan); Haruichi Kanaya (Kyushu University, Japan); Maryam Shojaei Baghini (IITB, India); Po-Hung Chen (National Yang Ming Chiao Tung University, Taiwan)

[P1-091]

Comparison of Omni PDP and Synthesized Directional PDP at 415 GHz

Jinhyung Oh (Electronics and Telecommunications Research Institute, Korea (South)); Jong Ho Kim (ETRI, Korea (South))

[P1-092]

Microwave-Assisted Carbothermal Synthesis of ZrC Nanosheets from ZrOx/rGO Precursor

Motohiro Shimizu and Dai Mochizuki (Tokyo Denki University, Japan)