

★スマート無線研究会 (SR)

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★短距離無線通信研究会 (SRW)

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◎本研究会はSR研究会とSRW研究会の併催です。研究会資料は各研究会ごとに発行されます。

◎本研究会は平成28年度において参加費が必要になります。

http://www.ieice.org/cs/jpn/kensen/special/trial2015/trial2015_index.html

をご参照下さい。

日時 5月16日(月) 9:30~17:30

17日(火) 9:30~17:40

会場 Hotel Lasaretti, Oulu, Finland (Kasarmintie 13 Oulu, Finland. <http://lasaretti.com/en>)

議題 SmartCom2016

16日午前 Keynote speech 1 (9:30~10:15)

1. TBD Seiichi Sampei (Osaka Univ.)

Special session 1 5G System (10:45~12:25)

RCS (二種)-2. [Requested Talk] Joint ML Detection for Overloaded MIMO and Its Application to Non-orthogonal Multiple Access Yukitoshi Sanada (Keio Univ.)

RCS (二種)-3. [Requested Talk] R & D Activities for 5G Wireless Systems in Japan—Reviewing IEICE Technical Report for Technical Group on Radio Communication Systems—

○Makoto Taromaru (Fukuoka Univ.)・Hidekazu Murata (Kyoto Univ.)・Eiji Okamoto (NITech)

RCS (二種)-4. [Requested Talk] TBD TBD (TBD)

RCS (二種)-5. [Requested Talk] TBD TBD (TBD)

16日午後 Poster session 1 (14:00~15:40)

共通-6. [技術展示] Channel Equalization on a OFDM system using Software Defined Radio (SDR)

○Ayano Ohnishi・Yoshimi Fujii・Fumiko Ohori (KKE)

共通-7. [技術展示] Measurement of 3.5-GHz-Band Small Cell Indoor-Outdoor Propagation: Visualization Method of RSSI in 3-dimensional Geospace

○Hideki Fukudome・Kohei Akimoto・Suguru Kameda・Noriharu Suematsu・Tadashi Takagi・Kazuo Tsubouchi (Tohoku Univ.)

共通 (二種)-8. [技術展示] Modular Multi-Wireless-Technology Enabled IoT Research Platform

○Konstantin Mikhaylov・Juha Petajajarvi・Marko Makelainen・Anton Paatelma・Tuomo Hanninen (CWC)

共通 (二種)-9. [技術展示] Field Trial of Citizens Broadband Radio Service (CBRS) Spectrum Access System (SAS)

Tuomo Hanninen (Univ. of Oulu)・○Pekka Aho (VTT)・Marjo Heikkila (Centria)・Seppo Yrjola (Nokia)・Heikki Kokkinen (Fairspectrum)・Jarkko Paavola (TUAS)

共通-10. [ポスター講演] Camera-assisted Proactive Handover for Human Blockage in mmWave Communications Yuta Oguma・Takayuki Nishio・○Koji Yamamoto・Masahiro Morikura (Kyoto Univ.)

共通 (二種)-11. [ポスター講演] Knife-edge and Slit Diffraction Measurements in the Terahertz Band

○Perttu Rintanen・Joonas Kokkonen・Janne Lehtomaki・Markku Juntti (CWC, Univ. Oulu)

共通-12. [ポスター講演] An Experimental Study on Network-Listening Based Synchronization with Loop-Back Self-Interference Canceller ○Sho Nabatame・Mitsukuni Konishi・Atsushi Nagate・Teruya Fujii (SoftBank)

共通-13. [ポスター講演] Layered Cell Configuration for 3D Cell Structure

○Atsushi Nagate・Manabu Mikami・Takao Okamawari・Teruya Fujii (SoftBank)

共通 (二種)-14. [ポスター講演] Wireless Medical Communications-WiMeC—Overview of the research activities at CWC— ○Matti Hamalainen・Jari Iinatti (CWC)

共通-15. [ポスター講演] A Study of Channel Estimation Sequences Design for Millimeter-Wave Short-Range MIMO Wireless Communication Systems

○Doohwan Lee・Ken Hiraga・Kazumitsu Sakamoto・Tadao Nakagawa (NTT)

共通 (二種)-16. [ポスター講演] A Comparison of Short/Medium Range Communications Technologies

○Ville Niemela • Matti Hamalainen • Jari Iinatti (CWC)

共通 (二種)-17. [ポスター講演] Exploiting Multi-Core SoC Architecture for MU-MIMO Schedulers

○Ganesh Venkatraman • Janne Janhunen • Markku Juntti (Center for Wireless Communications)

共通-(二種) 18. [ポスター講演] Simple Noise Level Estimation Using Minimum Operation

○Janne Lehtomaki (Oulu Univ.) • Kenta Umabayashi (Tokyo Univ. Agr. Tech.) • Markku Juntti (Oulu Univ.)

共通 (二種)-19. [ポスター講演] ETSI Spectrum Sharing and Software Reconfiguration Standards—Licensed Shared Access and Mobile Device Software Reconfiguration including Architecture, Security and Certification solutions—

○Markus Mueck (INTEL) • Marcello Pagnozzi (ETSI) • Michael Gundlach (NOKIA) • Vladimir Ivanov (LG) • Seungwon Choi (Hanyang Univ.) • Isabelle Siaud (BCOM)

共通-20. [ポスター講演] Fundamental Study of Decomposition based on Heterogeneous Sensing Data in Physical Conversion Sensor Networks

○Osamu Takyu (Shinshu Univ.) • Takeo Fujii (UEC) • Mai Ohta (Fukuoka Univ.) • Fumihito Sasamori • Shiro Handa (Shinshu Univ.)

共通-21. [ポスター講演] A method for improving detection performance with FFT based energy detection for cognitive radio systems

○Mai Ohta • Makoto Taromaru (Fukuoka Univ.) • Takeo Fujii (UEC) • Osamu Takyu (Shinshu Univ.)

共通-22. [ポスター講演] A study on FFT-ED based signal area estimation for spectrum awareness

○Riki Mizuchi • Kenta Umabayashi (TUAT) • Janne Lehtomaki (Univ. of Oulu) • Miguel Lopez-Benitez (Univ. of Liverpool)

共通 (二種)-23. [ポスター講演] An Ultrawideband Conformal Loop Antenna for Wireless Capsule Endoscope System

○Miah Md Suzan • Katsuyuki Haneda • Clemens Icheln • Afroza Khatun • Ken-ichi Takizawa (NICT)

共通-24. [ポスター講演] Approximated Theoretical Analysis for Spectrum Sensing Based on Test Statistics Shared CAF Diversity Combining

○Daiki Cho • Shusuke Narieda (NIT, Akashi College) • Kenta Umabayashi (TUAT)

共通 (二種)-25. [ポスター講演] Surface Reflection and Scattering Measurements in the Terahertz Band

○Joonas Kokkonen • Janne Lehtomaki • Markku Juntti (CWC, Univ. Oulu)

Special session 2 IoT (15 : 50~17 : 30)

SRW-26. [Requested Talk] TBD TBD (TBD)

SRW-27. [Requested Talk] TBD TBD (TBD)

SRW-28. [Requested Talk] TBD TBD (TBD)

SRW-29. [Requested Talk] TBD TBD (TBD)

◎Welcome reception

17 日午前 Keynote speech 2 (9 : 30~10 : 15)

1. Destination 5G—Explosion of possibilities in the programmable world present huge opportunities

Seppo Yrjola (Nokia)

Special session 3 Cognitive radio (10 : 45~12 : 25)

SR-2. [Requested Talk] Smart Spectrum Access based on spectrum usage measurements

○Kenta Umabayashi (TUAT) • Janne Lehtomaki (UoO) • Miguel Lopez-Benitez (UoL)

SR (二種)-3. [Requested Talk] Analysis of technology and business enablers for spectrum sharing in mobile broadband networks

Seppo Yrjola (Nokia)

SR (二種)-4. [Requested Talk] Future business ecosystem for mobile communications in the changing spectrum regulatory environment

Marja Matinmikko (CWC, Univ. Oulu)

SR-5. [Requested Talk] TBA TBA (TBA)

Special session 4 mmWave (10 : 45~12 : 25)

SR (二種)-6. [Requested Talk] MiWEBA

Thomas Haustein (HHI)

SR-7. [Requested Talk] A QAM-Capable 300-GHz CMOS Transmitter

○Shuhe Amakawa • Kosuke Katayama • Kyoya Takano (Hiroshima Univ.) • Shinsuke Hara • Akifumi Kasamatsu (NICT) • Koichi Mizuno • Kazuaki Takahashi (Panasonic) • Takeshi Yoshida • Minoru Fujishima (Hiroshima Univ.)

8. [Requested Talk] TBA

SR-9. [Requested Talk] 5G Heterogeneous Mobile Networks utilizing Millimeter-wave

○Shozo Okasaka • Koji Takinami (Panasonic)

17 日午後 Poster session 2 (14 : 00~15 : 40)

共通 (二種)-10. [ポスター講演] Fuzzy Logic Controller for UWB WBAN Routing

○Harri Viittala • Matti Hamalainen • Jari Iinatti (Oulu Univ.)

- 共通 (二種)-11. [ポスター講演] Energy Efficient WUR-based Dual-radio Solution for WBANs
 ○Heikki Karvonen · Juha Petäjäjärvi · Ville Niemel (UO/CWC)
- 共通-12. [ポスター講演] Performance Evaluation of User Scheduling in Full-Duplex Cellular Networks
 ○Takuya Ohto · Koji Yamamoto (Kyoto Univ.) · Katsuyuki Haneda (Aalto Univ.) · Takayuki Nishio · Masahiro Morikura (Kyoto Univ.)
- 共通-13. [ポスター講演] Toward Realization of a New Wireless Transmission Technology:—Orbital Angular Momentum (OAM) Multiplexing—
 ○Doohwan Lee · Hirofumi Sasaki · Hiroyuki Fukumoto · Tadao Nakagawa (NTT)
- 共通 (二種)-14. [ポスター講演] ADVANCED FPGA/ASIC DEVELOPMENT
 ○Teemu Aura · Olga Kayo (Nokia) · Jukka Lahti · Janne Janhunen (Univ. of Oulu)
- 共通 (二種)-15. [ポスター講演] Quality-Driven Mobility Management for Enhanced User Experience
 Esa Piri · Jarmo Prokkola (VTT)
- 共通-16. [ポスター講演] A study on positioning of a legitimated transmitter for physical layer security
 ○Youhei Takeuchi · Kenta Umebayashi (TUAT)
- 共通 (二種)-17. [ポスター講演] Two-layer Precoding for Dimensionality Reduction in Massive MIMO
 ○Antti Arvola · Antti Tölli (Univ. of Oulu) · David Gesbert (EURECOM)
- 共通-18. [ポスター講演] Spectrum Sensing Based on Hidden Markov Model for Measurement Based Spectrum Database
 ○Koji Ichikawa · Takeo Fujii (Univ. of Electro-comm.)
- 共通 (二種)-19. [ポスター講演] Power Allocation for Orthogonal Multiple Access Relay Channel Allowing Intra-link Errors
 ○Valtteri Tervo (Univ. of Oulu) · Xiaobo Zhou (Tianjin Univ.) · Pen-Shun Lu (Sony China Research Lab) · Markku Juntti (Univ. of Oulu) · Tad Matsumoto (JAIST)
- 共通-20. [ポスター講演] Evaluation of Location-Based Virtual Sector Method for Hidden Terminal Problem in WLAN
 ○Suguru Kameda · Kohei Akimoto · Noriharu Suematsu · Tadashi Takagi · Kazuo Tsubouchi (Tohoku Univ.)
- 共通-21. [ポスター講演] Low-Complexity Signal Detection based on Sorted-QR-Decomposed Sub-Graph Belief Propagation for MIMO Systems
 ○Shogo Tanabe · Koji Ishibashi (Univ. of Electro-comm.)
- 共通-22. [ポスター講演] A Study of Propagation Model and Mechanism on Null-Space Dimension Expansion for Multi-User MIMO Tolerant to Channel Fluctuation
 ○Makoto Taromaru · Daichi Tokuyasu · Ryosuke Ono · Mai Ohta (Fukuoka Univ.)
- 共通-23. [ポスター講演] Iterative Decoding of Implicit Concatenated Channel Code in Bluetooth Low Energy
 ○Shinsuke Ibi · Seiichi Sampei (Osaka Univ.)
- 共通 (二種)-24. [ポスター講演] Spectrum measurements and databases in dynamic spectrum management
 Marko Hoyhtya (VTT)
- 共通 (二種)-25. [ポスター講演] Pop-up CDN with smart monitoring and management
 ○Janne Vehkaperä · Antti Heikkinen (VTT)
- 共通-26. [ポスター講演] Fast rendezvous channel method based on two-stage sensing using the way to cluster the used channel
 ○Hayato Soya (Nagano Pref Inst.) · Tsukasa Yoneda · Takumi Kimura · Osamu Takyu (Shinshu Univ.) · Mai Ohta (Fukuoka Univ.) · Takeo Fjii (UEC) · Fumihito Sasamori · Shiro Handa (Shinshu Univ.)
- 共通-27. [ポスター講演] Dynamic Tracking of Unknown Emitters in Urban Environments using Particle Filters
 ○Azril Haniz · Gia Khanh Tran · Kentaro Saito · Kei Sakaguchi · Jun-ichi Takada (Tokyo Tech) · Daisuke Hayashi · Toshihiro Yamaguchi · Shintaro Arata (Koden Electronics)
- 共通-28. [ポスター講演] Detection of earthquake early warning on ISDB-T terrestrial digital television signals with majority decision
 Satoshi Takahashi (Hiroshima City Univ.)
- 共通-29. [ポスター講演] Sub-optimal and Low complexity Signal Detection method based on Power Spectrum under Noise Uncertainty
 Hiroyuki Kamata · ○Tran Gia Khanh · Kei Sakaguchi · Kiyomichi Araki (Tokyo Tech.)
- 共通-30. [ポスター講演] Effects of Spectrum Database-assisted Any-to-Any Radio Propagation Estimation on Ad-hoc Networks
 ○Koya Sato (UEC) · Kei Inage (TMCIT) · Takeo Fujii (UEC)
- Special session 5 Medical ICT (16:00~17:40)**
- RCC (二種)-31. [Requested Talk] Performance Evaluation on UWB Transmission for Implant Body Area Networks
 Daisuke Anzai (NIT)
- RCC (二種)-32. [Requested Talk] Wearable Devices for Medical/Healthcare Applications and Body Area Networks
 ○Hirokazu Tanaka · Yasutaka Hatakeyama (Hiroshima City Univ.) · Tatsuya Komori · Takeshi Matsukuma

(Toshiba DME)

RCC (二種)-33. [Requested Talk] SmartBAN for healthcare: ETSI standardization Lorenzo Mucchi (UNIFI)

MICT (二種)-34. [Requested Talk] TBD TBD (TBD)

©Closing and Awards ceremony

☆SR 研究会今後の予定 [] 内発表申込締切日

7月20日(水)~22日(金) 名工大 [5月2日(月)] テーマ:無線分散ネットワーク, M2M (Machine-to-Machine), D2D (Device-to-Device), 一般

【発表申込先】 下記研究会発表申込システムからお申込み下さい.

<http://www.ieice.org/jpn/ken/kenmoushikomi.html>

【問合せ先】

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☆SRW 研究会今後の予定 [] 内発表申込締切日

6月13日(月) NICT ワイヤレスネットワーク研 (YRP) [締切済] テーマ: WLAN, WPAN, Adhoc 関連技術, ミリ波通信, 一般

8月22日(月) 日大津田沼キャンパス [6月13日(月)] テーマ: WLAN 関連技術, 一般

【発表申込先】 下記研究会発表申込システムからお申込み下さい.

<http://www.ieice.org/jpn/ken/kenmoushikomi.html>

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