

TJMW 2024 Program at a Glance

Date: October 2 (Wed), 2024 @ **KMUTNB, STRI Building, 9th Floor**

Thailand time		Speaker	Chair
8:00 ? TBD	Bus will pick up at Bang Sue railway station (Exit No.2) Advance booking in the Registration is required to use this bus.		
9:30 - 10:00	Registration (coffee and snack)		
10:00 - 10:30	Welcome address	KMUTNB executives TJMW 20204 General chairs	Vice chairs
10:30 - 11:00	WE1: Tutorial Session I Explanation of the SDC: theory	SDC chair A	SDC chair B
11:00 - 11:30	WE2: Tutorial Session II Explanation of the SDC: experiment	SDC chair B	SDC chair A
11:30 - 12:30	Lunch		
12:30 - 14:30	WE3: Student Design Competition	TBD, but 6 teams ?? (5-6 persons/team)	SDC Chairs A & B
14:30 - 14:45	Coffee Break		
14:45 - 17:00	WE4: Student Design Competition	TBD, but 6 teams ?? (5-6 persons/team)	SDC Chairs A & B
17:00 - 19:00	Reception cocktails		
19:00 ? TBD	Bus will pick up to Bang Sue railway station Advance booking in the Registration is required to use this bus.		

TJMW 2024 Program at a Glance

Date: October 3 (Thu), 2024 @KMITL

Thailand time		Speaker	Chair
9:30 - 10:00	Registration		
10:00 - 11:00	TH1: Plenary Tutorial Session I Seven Straight Questions on Wireless Power Transfer Theorems Takashi Ohira, Toyohashi University of Technology	Dr. Takashi Ohira (Toyohashi University of Technology)	Dr.Piyapong Dangkham (Thepsatri Rajabhat University (TRU))
11:00 - 11:10	Break		
11:10 - 12:10	TH2: Technical Session I	4 presentations	Dr. Takashi Shimizu (Utsunomiya Univ.)
12:10 - 13:25	Lunch		
13:25 - 13:40	Sponsor Presentation	TBD	TBD
13:40 - 14:40	TH3: Technical Session II	4 presentations	Dr.Nathapat Supreeyatitkul (Rajamangala University of Technology Krungthep (RMUTK))
14:40 - 14:50	Break		
14:50 - 15:40	YE1: Young Engineers Session I (3min. Short Presentation: Part 1)	16 presentations	TPC chairs
15:40 - 15:55	Break		
15:55 - 16:50	YE2: Young Engineers Session II (3min. Short Presentation: Part 2)	17 presentations	TPC chairs
16:50 - 17:00	Photo Session		
17:00 - 19:00	Banquet @ Canalis Suvarnabhumi Airport Hotel international buffet style: food+soft drinks+beers		

TJMW 2024 Program at a Glance

Date: October 4 (Fri), 2024 @KMITL

Thailand time		Speaker	Chair
9:30 - 10:00	Registration		
10:00 - 12:00	YE3: Young Engineers Session III (Poster Presentation)	33 presentations	TPC chairs
12:00 - 12:20	Break		
12:20 - 13:20	FR1: Special Session: Anniversary Session (Panel session)	Dr. Atsushi Sanada (Osaka University), Dr. Kenji Itoh (Kanazawa Institute of Technology), Hiroshi Okazaki (Tokyo Information Design Professional University) Dr. Monai Krairiksh (King Mongkut's Institute of Technology Ladkrabang) Dr. Titipong Lertwiriaprapa (King Mongkut's University of Technology North Bangkok) Dr. Denchai Worasawate (Kasetsart University)	Dr. Tuptim Angkaew (Chulalongkon University) Dr. Kensuke Okubo (Okayama Prefectural University)
13:20 - 14:20	Lunch		
14:20 - 15:20	FR2: Plenary Session II A Journey from Chip Design to Propagation and Back: Embracing the Change	Dr. Suramate Chalermwisutkul (King Mongkut's University of Technology North Bangkok)	Dr. Tomohiko Mitani (Kyoto University)
15:20 - 15:30	Break		
15:30 - 16:00	Award Ceremony		SDC chairs, TPC chairs
16:00 - 16:10	Closing Session	General chairs	Vice chairs

TJMW2024, Technical Session Program

Oct. 3, TH2: Technical Session I

Thailand Time	Paper ID	Presentation Title	Authors
11:10 - 11:25	109	[Invited Talk]New WRC Agenda Items on Spectrum Regulations	○Hiroyo Ogawa (NICT)
11:25 - 11:40	106	Basic study of Low-cost Q/V-band on-board DBF antennas system for LEO Constellation Satellites	○Satoshi Tsukamoto • Tomoyuki Furuichi • Noriharu Suematsu (Tohoku Univ.)
11:40 - 11:55	107	Characteristics of a Wideband Circularly Polarized Bidirectional Antenna with Dielectric Superstrate	○Pisit Janpangngern (SUT) • Bancha Luadang (RMUTR) • Kittima Lertsakwimarn (KMUTNB) • Chuwong Phongcharoenpanich (KMITL)
11:55 - 12:10	110	Spectral Estimation of Wi-Fi Received Signal Strength for Detection of Multiple Human movements	○Koichiro Sakaguchi • Mitsuyoshi Kishihara • Kensuke Okubo (Okayama Prefectural Univ.)

Oct. 3, TH3: Technical Session II

Thailand Time	Paper ID	Presentation Title	Authors
13:40 - 13:55	101	[Invited Talk]Spirulina-templated Cu Microcoils toward THz Wideband Composite EWA Sheets/Plates	○Tomokazu Iyoda (Doshisha Univ.) • Naoya Kurahashi (KPTC)
13:55 - 14:10	102	A Novel Box-like Coupling Microstrip Diplexer with High Skirt Selectivity, High Isolation, and Wide Stopband	○Masataka Ohira (Doshisha Univ.) • Yudai Nishiyama • Zhewang Ma (Saitama Univ.) • Hiroyuki Deguchi (Doshisha Univ.)
14:10 - 14:25	104	A Unidirectional Rectangular Printed Dipole Array Antenna for 5G Base Station	○Khanet Pookkapund (Phranakhon Si Ayutthaya Rajabhat University) • Sitthichai Dentri (King Mongkut's University of Technology North Bangkok) • Chuwong Phongcharoenpanich (King Mongkut's Institute of Technology Ladkrabang,
14:25 - 14:40	108	New Concept Seven-Port Correlator Based Network Analyzer	○Toshiyuki Yakabe (MPL LLP)

TJMW 2024, Young Engineers Session Program

Oct. 3, YE1: Young Engineers Session I

Thailand Time	Paper ID	Presentation Title	Authors
14:50 - 14:53	301	A Study on CRLH-TL Using Gyrator and Series Capacitor	oNozomu Fujikawa • Koichiro Sakaguchi • Mitsuyoshi Kishihara • Kensuke Okubo (Okayama Prefectural Univ)
14:53 - 14:56	302	A Circularly Polarized Antenna with Four Diagonally Aligned Plates for MIMO WLAN Applications	oPattaradanai Buasri • Sitthichai Dentre (KMUTNB) • Pitchanun Wingsiritorn (RMUTR) • Rattapong Suwalak • Chuwong Phongcharoenpanich (KMITL)
14:56 - 14:59	303	A Connected Metal Fill Layout for Enhanced Power Decoupling and Reduced Chip Area in Ultrahigh Frequency CMOS Circuits	oYudai Miyoshi • Satoshi Tanaka • Takeshi Yoshida • Minoru Fujishima (Hiroshima Univ.)
14:59 - 15:02	304	A Circularly Polarized Yagi-Uda Antenna with Cylindrical Parasitic Elements for UHF-RFID Applications	oPhanudach Ruanpan • Sitthichai Dentre (KMUTNB) • Piyapong Dangkhram (TRU) • Chuwong Phongcharoenpanich (KMITL)
15:02 - 15:05	305	A Study on Estimation of EM-parameters of Cylindrically-Curved Absorber Sheets Using ANN-based Open-ended Coaxial Probe	OSho Kato • Chun-Ping Chen • Takaharu Hiraoka • Tetsuo Anada (Kanagawa Univ.)
15:05 - 15:08	306	A Four-Sector Circularly Polarized MIMO Antenna for 433 MHz Band Application	oWuttiphong Thisong (KMITL) • Sitthichai Dentre (KMUTNB) • Arnon Sakonkanapong (KMITL) • Prawate Wongsakulphasatch (AATC) • Chuwong Phongcharoenpanich (KMITL)
15:08 - 15:11	307	Confirmation of Specific Rectification Phenomena on “PN-Body Tied SOI-FET”- Diode	oHiroyoshi Matsushita • Mori Takayuki • Jiro Ida (Kanazawa Inst. of Tech.)
15:11 - 15:14	308	A Low-Profile Dual-Band Four-Port Folded-Patch Antenna for WLAN MIMO Access-Point Application	oTrinnamet Sungkapat • Sitthichai Dentre (KMUTNB) • Watid Phakphisut • Chuwong Phongcharoenpanich (KMITL)
15:14 - 15:17	309	Design and Evaluation of Broadband Multi-Stage Amplifiers with Flat Gain Characteristics	oKoki Mochida • Satoshi Tanaka • Takeshi Yoshida • Shuhei Amakawa • Minoru Fhujishima (Hiroshima Univ.)
15:17 - 15:20	310	A Novel Analysis of Asymmetric Partially Reflective Surfaces Based on the BCITL Model	Kittima lertsakwimarn • Danai torrungrueng • oAsawin nunchbang • Titipong lertwiriayaprapa (KMUTNB) • Hsi-Tseng Chou (NTU)
15:20 - 15:23	311	Image rejection ratio of an X-band even harmonic quadrature mixer MMIC for quantum bit' exciting	oKosuke Ito • Takaaki Michishita • Masaomi Tsuru • Naoki Sakai • Kenji Itoh (Kanazawa IT)
15:23 - 15:26	312	A Study of Paddy Moisture Content Measurement with Yagi-Uda Antenna	oJirakit Losamlit • Siwakorn Rattanasroi • Thanapat Kanchanaruk • Phaisan Ngamjanyaporn • Paiboon Yoiod (RSU)
15:26 - 15:29	313	Fabrication of Power Combiner Operating at Sub-THz Band	oTakato Shinhama • Futoshi Kuroki (NIT, Kure College.)
15:29 - 15:32	314	A Wideband Unidirectional Antenna using Truncated Multiple Microstrip Patch for S-Band Applications	oThanaphon Hemachai • Anusorn Wonga • Chatuporn Duangthong • Arnon Sakonkanapong (KMITL) • Sitthichai Dentre (KMUTNB) • Chuwong Phongcharoenpanich (KMITL)
15:32 - 15:35	315	Measurement of Unloaded Q-factor in Dielectric Tube Supported Metal Rod Transmission Line at 80GHz	oMototsugu Ohtani • Futoshi Kuroki (NIT, Kure College)
15:35 - 15:38	316	Analysis of Spatial Characteristics of Central Thailand	oKasidis Khamkao • Watid Phakphisut • Krit Wongrujira (KMITL) • Thongchai Wijitpornchai • Tanun Jaruvitayakovit (AIS)

Oct. 3, YE2: Young Engineers Session II

Thailand Time	Paper ID	Presentation Title	
15:55 - 15:58	317	Measurement of Sound Wave Propagation in Acoustic Metamaterial With Periodically Arranged Helmholtz Resonators	○Ryo Mashiba • Koichiro Sakaguchi • Mitsuyoshi Kishihara • Kensuke Okubo (Okayama Prefectural Univ.)
15:58 - 16:01	318	Compact Spherical Near-field Scanning System for Antenna Radiation Pattern Measurement	○Kitiphon Sukpreecha • Sangwon Kittiwittayapong • Titipong Lertwiriaprapa • Danai Torrungrueng • Kittisak Phaebua (KMUTNB)
16:01 - 16:04	319	Comparison of frequency characteristics with 2 elements and multi-stage matching	○Takehiro Yamaki • Kodai Nakao • Satoshi Yoshida (Ryukoku Univ.)
16:04 - 16:07	320	Detecting Anomalous Antenna Coverage Using Distance Rate	○Juthamart Jaruensuk • Watid Phakphisut • Chuwong Phongcharoenpanich (KMITL) • Thongchai Wijitpornchai • Tanun Jaruvitayakovit (AIS)
16:07 - 16:10	321	Development of Low Humidity Chamber for Complex Permittivity of Dielectric Plate by the Circular Empty Cavity Method	○Shun Kondo • Takashi Shimizu (Utsunomiya Univ.)
16:10 - 16:13	322	Exact UTD solution of PEC half-plane	○Montree Saowadee • Titipong Lertwiriaprapa (KMUTNB)
16:13 - 16:16	323	Improved image rejection ratio of a digitally controlled quadrature mixer with corrected I/Q errors	○Takaaki Michishita • Kosuke Ito • Masaomi Tsuru • Naoki Sakai • Kenji Itoh (Kanazawa IT)
16:16 - 16:19	324	Intrusion Behavior Detection System using Media Pipe Technique	○Imron Yamadee • Sitthichai Dentre (KMUTNB)
16:19 - 16:22	325	Miniaturized 360-Degree 40nm CMOS Active Phase Shifter for Sub-Terahertz	○Zhen Yan • Satoshi Tanaka • Takeshi Yoshida • Minoru Fujishima (Hiroshima Univ.)
16:22 - 16:25	326	Reconstructing Antenna Radiation Patterns Using Cubic Spline Interpolation Techniques	○Chidchanok Chamras • Watid Phakphisut • Chuwong Phongcharoenpanich (KMITL) • Thongchai Wijitpornchai • Tanun Jaruvitayakovit (AIS)
16:25 - 16:28	327	Simulation Study on Improvement of Wireless Power Transmission Efficiency by Forming a Flat-Topped Beam Using Simple Phased Array	○Yuuki Kagata • Bo Yang • Naoki Shinohara • Tomohiko Mitani (Kyoto Univ.)
16:28 - 16:31	328	Study of the electromagnetic absorber made from natural rubber latex filled with Fe ₃ O ₄	○Kiadtisak Salayong • Titipong Lertwiriapapa (KMUTNB)
16:31 - 16:34	329	Study on Electrical Energy Harvesting by Using Piezoelectric	○Yanida Prasopsom • Chonnipa Maneedang • Theerarat Tridech (Chomsurang Upatham School) • Khanet Pookkapund (Phranakhon Si Ayutthaya Rajabhat University)
16:34 - 16:37	330	Study on Improvement of Microwave Penetration through Wall by Applying Resonant-Type Wireless Power Transfer	○Yuki Yano • Naoki Shinohara • Tomohiko Mitani • Bo Yang (Kyoto Univ.)
16:37 - 16:40	331	Wideband Impedance Matching Using Quarter-Wave-Like-Transformers Implemented by Asymmetric Compact Microstrip Resonant Cells	○Bordin Thubthim • sangwon kittiwittayapong • danai torrungrueng • kittisak phaebua • titipong lertwiriaprapa • prayoot akkaraekthalin (KMUTNB)
16:40 - 16:43	332	A Wideband Yagi-Uda Antenna with Folded Driven and Additional Rod Elements for DTV Applications	○Thanida Jirakasemwarakul • Sitthichai Dentre (KMUTNB) • Rassamit Pansomboon (NECTEC) • Supakit Kawdungta (RMUTL) • Chuwong Phongcharoenpanich (KMITL)
16:43 - 16:46	333	Design of PCB-based Microwave Input Line Prototype for Quantum Computer	○Sirisak Nongpromma (KMUTNB) • Hiroyuki Kayano (AIST)