

Time	Program	Room A	Room B	Room C	Room D
October 22 nd , 2019 (Tuesday)					
15:00 - 17:00	Registration				✓
16:00 - 17:00	Tutorial				✓
17:00 - 18:30	Welcome Party				✓
October 23 rd , 2019 (Wednesday)					
08:00 - 09:00	Registration				
09:00 - 09:45	<ul style="list-style-type: none"> • Opening Ceremony 	✓	✓		
	<ul style="list-style-type: none"> • Report and Welcoming address: General Chair – <i>Eko Tjipto Rahardjo</i> 				
	<ul style="list-style-type: none"> • Technical Report TPC: – <i>Achmad Munir</i> 				
	<ul style="list-style-type: none"> • Opening Address: President AP-S IEEE – <i>Mahta Moghadham</i> 				
	<ul style="list-style-type: none"> • Opening Address: MTT/AP Joint Chapter Indonesia Section – <i>Basari</i> 				
09:45 - 10:00	Coffee break				
10:00 - 11:00	Keynote speech 1 - <i>Mahta Moghadham</i>	✓	✓		
11:00 - 12:00	Keynote speech 2 - <i>Hiroyuki Arai</i>	✓	✓		
12:00 - 13:00	Lunch				
13:00 - 15:15	Parallel Session 1 (22)	Special Session 1: Antenna and Components for 5G Applications (5)	Oral Session 1: NF – FF Measurement (6)	Special Session 2: Antenna Metrology, Precision Antenna Measurement and Related Technologies (6)	Oral Session 2: Radar Technique and Applications (6)
15:15 - 15:30	Coffee break				
15:30 - 17:45	Parallel Session 2 (22)	Oral Session 3: MIMO Antennas (5)	Special Session 3: Non- Destructive Testing Methods for Agricultural Products (6)	Special Session 4: Research in the Fields of Radar, Telecommunications and Electronic Warfare	Special Session 5: Indoor Localization and Positioning Techniques (6)

				(4)	
October 24 th , 2019 (Thursday)					
08:00 - 08:30	Registration				
08:00 - 09:45	Parallel Session 3 (14)	(0)	Special Session 6: Millimetre-wave Components, Systems and Applications (5)	Oral Session 4: General EM Topics (4)	Oral Session 5: EM Modelling (5)
09:45 - 10:00	Coffee break				
10:00 - 11:00	Keynote speech 3 - <i>Sudhakar Rao</i>	✓	✓		
11:00 - 12:00	Keynote speech 4 - <i>Francesco Andriulli</i>	✓	✓		
12:00 - 13:00	Lunch				
13:00 - 15:15	Parallel Session 4 (24)	Oral Session 6: Ultra Wide Band System and Components (6)	Special Session 7: Small Antenna in Mobile Communication (6)	Special Session 8: Antenna Applications for Infrastructures 1 (6)	Special Session 9: Techniques for Antenna Design and Measurement 1 (6)
15:15 - 15:30	Coffee break				
15:30 - 17:45	Parallel Session 5 (21)	Oral Session 7: Antenna and Its Array (6)	Oral Session 8: Bio Engineering (4)	Special Session 10: Antenna Applications for Infrastructures 2 (5)	Special Session 11: Techniques for Antenna Design and Measurement 2 (6)
18:30 - 20:30	Banquette				
October 25 th , 2019 (Friday)					
08:00 - 16:00	Package Tour				

Paper Number	Title	Authors
Special Session 1: Antenna and Components for 5G Applications Room A: Wednesday, 23rd October 2019, 13:00 – 15.15		
1570590196	Invited How to Evaluate Near-Field of Metamaterial 5G Beamforming Antennas	Sungtek Kahng
1570570246	X-band Rectangular to Square Waveguide Transition for Transmit array Unit Cell Characterization	Muhammad Naeem Iqbal; Mohd Fairus Mohd Yusoff; Mohamad Kamal A. Rahim; Mohamad Rijal Hamid; Zaharah Johari; Huda A. Majid
1570570588	Design of a Compact Meander-Based Antenna for Search and Rescue Using PDMS	Rais Ahmad Sheikh; Ping Jack Soh; Mohamad Kamal A. Rahim; Azremi Abdullah Al-Hadi; Hidayath Mirza; Toufiq Md Hossain; Abdalla Ali
1570574624	Incorporation of Spiral Shaped Defected Ground Structure for Improving Radiation Characteristic of Planar Array-Antenna	Mochamad Yunus; Zero Luthfi Patriana; Evyta Wismiana; Teguh Firmansyah; Budi Syihabuddin; Achmad Munir
1570570472	Bandwidth Enhancement of Substrate Integrated Waveguide Cavity Antenna Using T-Backed Slot	Dian Widi Astuti; Eko Tjipto Rahardjo; Fitri Yuli Zulkifli
Oral Session 1: Near Field – Far Field Measurements Room B: Wednesday, 23rd October 2019, 13:00 – 15.15		
1570553137	Performing NF-FF Transformation on Amplitude Only Data Using an Array of Probes Without Probe Correction	Heng Chen; Tapan Sarkar; Magdalena Salazar-Palma
1570559446	Characterization of a 8-Ports Vector Antenna for Measurement Applications	Christophe Morlaas; Alexandre Chabory; Johan Duploux
1570560609	VHF Antenna Far-Field Pattern Measurements at 60 MHz Using an Outdoor Antenna Range for Europa Clipper Mission	Joshua M Miller; Yasser Hussein; Curtis Jin; Emmanuel Decrossas
1570560880	UHF Band Antenna Radiation Pattern Measurements in Multipath Channel Using Time Domain Gating	Alexandru Tatomiurescu
1570563438	Permeability Determination of Metallic Wires by a Method Combining Measurement and Computer Simulation	Chi-Fang Huang; Hsuan-Yi Chao
1570570430	Non-Resonant E-Field Coaxial Probe for Very near and near Field Measurements	Atsushi Katsuta; Hiroyuki Arai; Masami Arai

Special Session 2: Antenna Metrology, Precision Antenna Measurement and Related Technologies Room C: Wednesday, 23rd October 2019, 13:00 – 15.15		
1570568900	Measurement of Complex Permittivity of Tissue-Equivalent Liquid Poured in a Waveguide Well	Yuto Shimizu; Nozomu Ishii; Tomoaki Nagaoka; Kanako Wake; Soichi Watanabe
1570569565	Receiving Performance of Antenna-Coupled Electrode Electro-Optic Modulators for 5G Frequency Band	Satoru Kurokawa
1570570234	Impact of Azimuthal Antenna Pattern Sampling and Variation on Throughput Measurements	Andrés Alayón Glazunov; Ms. Madeleine Schilliger Kildal; Jan Carlsson
1570570451	Uncertainty Estimation of Antenna Gain Self-Calibration Method with Moving Flat Reflector for 5G Standard Gain Horn Antenna	Michitaka Ameya
1570572242	Broadband RF Attenuation Standards for Traceability of Antenna and EMC Measurements in Japan	Anton Widarta
1570561273	Six - Port Technology for Millimeter - Wave Metrology	Kamel Haddadi; Christophe Loyez; Katir Ziouche
Oral Session 2: Radar Technique and Applications Room D: Wednesday, 23rd October 2019, 13:00 – 15.15		
1570555976	Monostatic/Bistatic Interferometric Radar for Monitoring Slander Structures	Massimiliano Pieraccini; Lapo Miccinesi
1570557991	77 GHz FMCW Radar Based Simultaneous Vital Signs Measurements	Tjahjo Adiprabowo; Tse-Hsuan Wang; Ding-Bing Lin
1570560526	Position Estimation of Two Targets Using Compensated HRRPs Obtained from 3 Radars	Jaewon Yang
1570561674	Characterization of X-Band Wave Absorber Made of SRR-Based Metasurface	Budi Syihabuddin; Mohammad Ridwan Effendi; Achmad Munir
1570570428	Improving the Angular Resolution of a Scanning Radar with Imperfectly Known Antenna Patterns	Romain Fouettilloux
1570569519	Concrete Thickness Measurement Model for GPR	Erfansyah Ali; Aloysius Adya Pramudita; Dharu Arseno
Oral Session 3: MIMO Antennas Room A: Wednesday, 23rd October 2019, 15:30 – 17.45		
1570558429	OTA Experiments on Improved Angular Accuracy Reactively Loaded 32 × 32 MIMO/AOA Antenna	Nana Narukawa; Koichi Ogawa

1570558431	Sandwiched-Monopole MIMO Array for Full-Solid Angle Flying Car-to-Car Communications	Taiki Fukushima; Nana Narukawa; Koichi Ogawa; Kazuhiro Honda
1570558695	Dual-Band MIMO System Based on Metal Frame for 5G Applications	Shengjie Wu; Anping Zhao; Bingguang Zhong
1570560158	High Isolated MIMO Antenna System for Full-Duplex 5G Applications	Koffi Gbafa; Aliou Diallo; Philippe Le Thuc; Robert Staraj
1570573560	Experimental Study of MIMO Through the Wall Radar Using Vector Network Analyzer	Aloysius Adya Pramudita; Yuyu Wahyu; Erfansyah Ali; Dedy Fitrinisaaprayunanti
Special Session 3: Non-Destructive Testing Methods for Agricultural Products Room B: Wednesday, 23rd October 2019, 15:30 – 17.45		
-	Essential of Preharvest Sensors	Monai Krairiksh
1570560820	Resolution Improvement in Preharvest Sensor	Hoang Nam Dao; Monai Krairiksh
1570566908	Observations from Radar Scans of Grape Vines Conducted over a Growing Season	Kimberley W. Eccleston; Ian G Platt; Abdolabbas Jafari; Armin Werner; Christopher Bateman; Ian M Woodhead; Jaco Fourie; Jeffrey Hsiao; Peter Carey
1570570314	Leaf-Shaped Textile Dipole Antenna Design	Mohamad Kamal A. Rahim
1570570421	Zeroth-Order Resonator Based on Mushroom-like Structure for Liquid Mixture Concentration Sensing of Sodium Chloride Solution	Nonchanutt Chudpooti; Prayoot Akkaraekthalin
1570570424	A Microwave Gas Sensor Using Interdigital Resonator Coated with Conducting Polymer for Agricultural Applications	Nonchanutt Chudpooti; Prayoot Akkaraekthalin; Warunee Krudpun
Special Session 4: Research in the Fields of Radar, Telecommunications and Electronic Warfare Room C: Wednesday, 23rd October 2019, 15:30 – 17.45		
1570568298	Radar Cross Section of a Slightly Tilted Disk in the Fresnel Region and Real Environment	Ilie Valentin Mihai; Ala Sharaiha; Razvan D. Tamas
1570574599	Particle Filter Track-before-detect for Target Detection and Tracking from Marine Radar Data	Zaynab Guerraou
1570570367	Recent Development in UAV-based Antenna Pattern Characterization for Weather Radars	Arturo Y Umeyama Matsumoto; Jorge Salazar; Caleb Fulton; Brenton Wolf
1570574561	Frequency Reconfigurable Wideband Metamaterial Antenna Design with CSRR	Adamu Y Iliyasu; Mohamad Rijal Hamid; Mohamad Kamal A. Rahim; Murtala Aminu-Baba; Mohd Fairus Mohd Yusoff

Special Session 5: Indoor Localization and Positioning Techniques Room D: Wednesday, 23rd October 2019, 15:30 – 17.45		
1570590195	Invited What Type of Wave Propagates in Wireless Communication - Zenneck, Surface, Lateral or Ground Waves?	Tapan Sarkar; Magdalena Salazar-Palma
1570566925	CNN Localization Using AP Inverse Position Estimation	Satoru Aikawa; Shinichiro Yamamoto; Takuma Muramatsu
1570570327	GPS/GLONASS Data Fusion and Outlier Elimination to Improve the Position Accuracy of Receiver	Tan Truong Ngoc; Ali Khenchaf; Fabrice Comblet
1570570385	Combined DoA-ToA Localization Technique Based on a Broadband Switched Beam Antenna	Alessandro Cidronali; Giovanni Collodi; Matteo Lucarelli; Stefano Maddio; Marco Passafiume; Giuseppe Pelosi
1570574658	Study on Radiation Characteristics of QRHA Based on Gaussian Ridge Profile	Folin Oktafiani; Efrina Hamid; Achmad Munir
1570580299	Numerical Design of Dual Resonant Microstrip Surface RF Coil for MRI Application	Adhi Mahendra; Basari Basari; Eko Tjipto Rahardjo
Special Session 6: Millimetre-wave Components, Systems and Applications Room B: Thursday, 24th October 2019, 08:30 – 09.45		
1570569567	Substrate Integrated Waveguide Horn Antennas at Millimeter Waves	Mudrik Alaydrus; Galang Hakim
1570570288	Development of a Microstrip Antenna for Glucose Detection at Millimeter Waves	Ahmad Firdausi; Mudrik Alaydrus; Galang Hakim
1570560397	Reconfigurable Stacked Patch Antenna Using Liquid Crystal for Millimeter Wave	Ali Hajj Hassan; Elias Rachid; Mohammad Rammal; Georges El Nashef; Najib Fadlallah
1570569973	Compact 28 GHz Ring Hybrid Coupler with Hybrid Cascade (HC) Coupled Lines	Jin Seop Lee; Choon Sik Cho; Il Ho Jung; Ho Jin Kang; Kun Hee Ha; Yu Min Kim
1570570040	60GHz Substrate Integrated Waveguide Balun	Yu Min Kim; Choon Sik Cho; Il Ho Jung; Ho Jin Kang; Jin Seop Lee; Kun Hee Ha
Oral Session 4: General EM Topics Room C: Thursday, 24th October 2019, 08:30 – 09.45		
1570568851	Shape Reconstruction of Deposits Inside a Steam Generator Using Eddy Current Measurements	Lorenzo Audibert; Hugo Girardon; Housseem Haddar
1570570053	Hybrid Supply Modulator for High Power RF PA with Non-Inverting Amplifier	Kun Hee Ha; Choon Sik Cho; Jin Seop Lee; Il Ho Jung; Yu Min Kim; Ho Jin Kang

1570570441	Impact of Terminal Polarization in a Urban Channel for LP-WAN Application	Fabien Ferrero; Quoc Huy LE; Matthieu Loupias
1570572424	Development of Microwave Tomography System Based on Arduino NANO and Pocket VNA	Desfi Nur Fikri; Prawito Prajitno; Sastra Kusuma Wijaya
Oral Session 5: EM Modelling Room D: Thursday, 24th October 2019, 08:30 – 09.45		
1570570399	Increasing Received Modulation Signal for Integrated EOM Microwave Antenna by Using Paraboloid Reflector	Yus Natali; Purnomo Priambodo; Eko Tjipto Rahardjo
1570570858	Bandwidth and Gain Improvement Using Artificial Magneto-dielectric Material with Split-Ring Resonator Array Configuration	Yohanes Galih Adhiyoga; Catur Apriono; Eko Tjipto Rahardjo
1570559858	Examination of Geophysical Model Functions for Microwave Backscattering from Sea Surfaces	Yisok Oh; Tae-Kyeong Jin; Sinmyong Park
1570559867	Calibration Method Research for High Power Transient Electromagnetic Field Sensor	Yunsheng Jiang; Cui Meng
1570568146	Excitation Method of Cavity Using Characteristic Modes	Kazuki Kamiyama
Oral Session 6: Ultra Wide Band System and Components Room A: Thursday, 24th October 2019, 13:00 – 15.15		
1570572229	Invited UWB Bow-Tie Antenna with Tapered Inductive Loading	Andrian Andaya Lestari
1570559870	Impact of Antenna Inclination Angle During Scanning Process on Radiated Emission Measurements in the Anechoic Chambers Above 1 GHz	Krzysztof Sieczkarek; Adam Mackowiak
1570556899	Analysis on the Parameter Estimation Performance in an UWB/IMU Tightly-Coupled System	Kegen Yu; Kai Wen; Yingbing Li
1570565405	Development of a Wideband Substrate Integrated Waveguide Bandpass Filter Using H-Slotted DGS	Nakmouche Farouk; Hany Taher; Diaa Fawzy; Abdelmegid Allam
1570569283	Experimental Investigation of Active Antenna	Igor Borisovich Shirokov; Elena Shirokova
1570574414	Hexagonal Triangular Fractal Antenna with Tapered Feedline and Reflector for 5G and UWB Applications	B. Pratiknyo Adi Mahatmanto; Catur Apriono; Fitri Yuli Zulkifli; Eko Tjipto Rahardjo

Special Session 7: Small Antennas for Mobile Communication Room B: Thursday, 24th October 2019, 13:00 – 15.15		
1570570145	A Circularly Polarized Metasurface Antenna Comprising Printed Rectangular Loops with Gaps for GNSS Receivers	Makoto Sumi
1570570290	Study of Parasitic Element Effects of Multiband IFA for UHF and SHF Channel Systems	Erfan Rohadi; Amalia Amalia; Indrazno Siradjuddin; Mitsuo Taguchi; Awan Setiawan; Supriatna Adhisuwignjo
1570570455	Ultra Low Profile Inverted L Antenna Composed of CPW Printed on PET Sheet for IoT Application	Mitsuo Taguchi
1570573652	A Small Monocone Antenna with PIFA Structure	Hisashi Morishita
1570572673	Stacked Interdigital Filtering Antenna with Slant Polarization	Dwi Astuti Cahyasiwi; Fitri Yuli Zulkifli; Eko Tjipto Rahardjo
1570570468	Dual-band LoRa Antenna: Design and Experiments	Fabien Ferrero; Mouhamed Bhoie Toure
Special Session 8: Antenna Applications for Infrastructures 1 Room C: Thursday, 24th October 2019, 13:00 – 15.15		
1570569643	Performance Degradation Investigations of Helicopter Forward-Looking 76 GHz Millimeter-Wave Radar Due to Radome	Shunichi Futatsumori; Norihiko Miyazaki
1570570064	Bi-static Millimeter Wave Radar Connected by Radio over Fiber for FOD Detection on Runways	Naruto Yonemoto; Shunichi Futatsumori; Akiko Kohmura; Kazuyuki Morioka; Naoki Kanada; Nobuhiro Sakamoto
1570570092	Simple Secondary Radar for Non-Line-Of-Sight Pedestrian Detection	Tetsuya Kawanishi; Motoki Shirai; Tetsuya Miura; Keizo Inagaki; Kunihisa Jitsuno; Atsushi Kanno; Naokatsu Yamamoto
1570570101	IMU-enabled Nondestructive Imaging System Based on Millimeter-Wave Radar	Atsushi Kanno; Naokatsu Yamamoto; Ms. Rena Takaoka; Shintaro Otani; Hideyuki Sotobayashi
1570550584	Design a Wide Band Microstrip Line Fed Antenna for TCAS Avionic System	Moustafa Mohamed; Abdelmegid Allam; Diaa Fawzy
1570560283	Noise Parameter Measurement and Its Application in Receiving Phased Arrays for Low-Frequency Radio Astronomy	Adrian Sutinjo; Daniel Ung
Special Session 9: Techniques for Antenna Design and Measurement 1 Room D: Thursday, 24th October 2019, 13:00 – 15.15		

1570570249	Printed IFA for WLAN/5G USB Dongle Applications	Wen-Shan Chen; Pin-Feng Chen; Wen-Zhong Lee; Yung-Chun Lin
1570570380	Linearly Polarized Omnidirectional Polarization-Diversity Dielectric Resonator Antenna	Nan Yang; Kwok Wa Leung; Weiwei Li
1570570426	Phase Faults Detection in Antenna Array Through Amplitude-only Far Field Measurements and Sparsity Promotion-based Techniques	Roberta Palmeri; Andrea Francesco Morabito; Tommaso Isernia
1570573175	Design and Measurement Considerations of Feeding Network Including Power Divider for Multi-Port Antenna Arrays	Jae-Yeong Lee; Dongkwon Choi; Kihyun Kong; Junsik Yun; Youngno Youn; Wonpyo Kwon; Wonbin Hong
1570573891	Design of Truncated Microstrip Antenna with Array 4X2 for Microwave Radio Communication	Syah Alam; Indra Surjati; Yuli Kurnia Ningsih; Ms. Lydia Sari
1570560709	Antenna Near-field Measurement Based on Quantum Coherence Effect of Rydberg Atom	Qingyun Zeng; Zhenghui Xue; Wu Ren; Weiming Li
Oral Session 7: Antenna and Its Array Room A: Thursday, 24th October 2019, 15:30 – 17.45		
1570560884	Invited Practical Aspects of Antenna Element on Air Substrate Usage	Ruslan V. Shaymardanov; Alexander Sergeyevich Kukharev; Andrey Albertovich Yelizarov
1570574454	Approximation of the Active Reflection Coefficient in Phased Arrays via the Concept of Reaction	Andrej Konforta; Christos Lontas; Thomas Bertuch; Thomas F. Eibert
1570574629	Radiation Characteristic of Chebyshev Function-Based Power Weighted Linear Array Antennas Influenced by Element Configuration	Hartuti Mistialustina; Chairunnisa Chairunnisa; Mohammad Ridwan Effendi; Achmad Munir
1570560034	A 2X2 X-band Array Antenna with Sequential Rotation Network Feeding for Communication	Farohaji Kurniawan; Josaphat Tetuko Sri Sumantyo; Folin Oktafiani; Gunawan Prabowo; Achmad Munir
1570560650	16-Elements Helical Antenna System Integration with a Solar Cell Powered IoT Collector	Ahmet Tekin; Naveed Ullah
1570582203	Bandwidth Enhancement Substrate Integrated Waveguide (SIW) Antenna V-shape Slot for X Band Application	Anshari Akbar; Fitri Yuli Zulkifli; Eko Tjipto Rahardjo
Oral Session 8: Bio Engineering Room B: Thursday, 24th October 2019, 15:30 – 17.45		

1570561061	In-vivo Microwave Dielectric Properties of Healthy and Carcinogenic Rat Nasal Tissues from 500 MHz to 6 GHz	Tuba Yilmaz; Nural Pastaci Ozsobaci; Fatma Ates Alkan; Nuray Kepil; Ibrahim Akduman
1570570359	Development of Novel 70 GHz Band Exposure Equipment System for Studies on Thermal Perception Thresholds of Biological Effects Exposed to Millimeter-Wave	Keita Sakakibara; Takashi Hikage; Itsuki Kageyama; Hiroshi Masuda
1570570408	Further Developments of Applicator Concepts for Detection of Body Part Inhomogeneities	Nikola Petrovic; Christian Y. Pichot; Per Olov Risman
1570570471	Single Coaxial Feed Microstrip GPS Antenna Aimed at Wearable Device Application	Syahrul Ramdani; Irfandella Pratama; Basari Basari
Special Session 10: Antenna Applications for Infrastructures 2 Room C: Thursday, 24th October 2019, 15:30 – 17.45		
1570570186	Time-domain Analysis of Microwave Guided-Modes Propagating Along FRPM Pipe Wall for Infrastructure Inspection	Ms. Sayaka Matsukawa; Kosuke Yoshida; Tadahiro Okuda; Masaya Hazama; Satoru Kurokawa; Hiroshi Murata
1570570267	Unequal Weighted Microstrip Array Antenna for Concrete Inspection Radar	Try Putra Wibowo; Fitri Yuli Zulkifli
1570580808	Performance of Antenna Using Linear Resistive Loading for Ground Penetrating Radar	Yusuf Nur Wijayanto; Yuyu Wahyu
1570541973	Microstrip Yagi Antenna Stacked with Optical Modulator for 28GHz Communication	Yusuf Nur Wijayanto; Yahya Syukri Amrullah; Fajri Darwis
1570555562	Monitoring of Veresk Rail Bridge Using a Radar Interferometer	Massimiliano Pieraccini; Lapo Miccinesi; Ali Abdorazzagh Nejad; Azadeh Naderi Nejad Fard
Special Session 11: Techniques for Antenna Design and Measurement 2 Room D: Thursday, 24th October 2019, 15:30 – 17.45		
1570559396	3D-Printed Millimeter-Wave Dielectric Reflectarray	Yu-Xiang Sun
1570569513	Design of A Self-diplexing Dielectric Resonator Antenna	Chaofan Zhao; Ms. Jia Min Wen; Shaoyong Zheng; Ms. Xiaohua Wang
1570569868	Polarization-Reconfigurable Antennas with Different Liquid Solutions	Zhe Chen; Hang Wong; Jun Xiang; Kaixu Wang
1570570230	Design of MIMO Antennas for 5G C-band/WLAN Operation in the Laptop Computer	Wen-Shan Chen; Ming-Han Liang; Yu-Ren Chen

1570570233	Study on Spectral-Domain Formulation of Electromagnetic Scattering by Periodic Strip Array with Period Modulation	Koki Watanabe
1570580857	A Simple Radiation Pattern Measurement for Large Array Antennas	Bambang Dewandaru; Fitri Yuli Zulkifli; Eko Tjipto Rahardjo