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Adrien Merlini, Clément Henry, IMT Atlantique, France; Davide Consoli, Lyes Rahmouni, Francesco P. Andriulli, Politecnico di Torino, Italy

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Jonathan Kelley, Andrew Maicke, Ali Yilmaz, The University of Texas at Austin, United States; Yaniv Brick, Ben-Gurion University of the Negev, Israel

FR-A3.1P.5: TRIMMED MULTILEVEL FAST MULTIPOLE ALGORITHM FOR D-TYPE 1936 VOLUME INTEGRAL EQUATIONS

Halil Topözlü, Vakur Behçet Ertürk, Bilkent University, Turkey; Barışcan Karaosmanoğlu, Interprobe Information Technologies and Services, Turkey

FR-A3.1P.6: LOW-FREQUENCY-STABILIZED ELECTRIC FIELD INTEGRAL 1938 EQUATION ON TOPOLOGICALLY NON-TRIVIAL GEOMETRIES FOR ARBITRARY EXCITATIONS

Bernd Hofmann, Thomas F. Eibert, Technical University of Munich, Germany; Francesco P. Andriulli, Politecnico di Torino, Italy; Simon B. Adrian, Universität Rostock, Germany

FR-A3.1P.7: A NON-CONFORMAL MULTI-RESOLUTION PRECONDITIONER IN 1940 THE MOM SOLUTION OF LARGE MULTI-SCALE STRUCTURES

Victor F. Martin, Jose M. Taboada, University of Extremadura, Spain; Francesca Vipiana, Politecnico di Torino, Italy

FR-A3.1P.8: ON A CONSTRAINED PSEUDOINVERSE FOR THE 1942 ELECTROMAGNETIC INVERSE SOURCE PROBLEM

Ermanno Citraro, Alexandre Dély, Francesco Andriulli, Politecnico di Torino, Italy; Adrien Merlini, IMT Atlantique, France

FR-A3.1P.9: ON THE EFFECTIVENESS OF QUASI-HELMHOLTZ PROJECTORS IN 1944 PRECONDITIONING PROBLEMS WITH JUNCTIONS

Johann Bourhis, Francesco P. Andriulli, Politecnico di Torino, Italy; Adrien Merlini, École nationale supérieure Mines-Télécom Atlantique Bretagne Pays de la Loire (IMT Atlantique), France

FR-A4.2P: NUMERICAL AND ANALYTICAL TECHNIQUES OF SCATTERING AND DIFFRACTION PHENOMENA

FR-A4.2P.2: CAMERA BOXES: A SET OF COMPLEX SCATTERING PROBLEMS TO 1946 TEST EM SIMULATIONS AND MEASUREMENTS

Ali Yilmaz, Eric Smith, Steven Cox, Brian MacKie-Mason, Clifton Courtney, George Burchuk, Lockheed Martin Aeronautics, United States

FR-A4.2P.3: TM POLARIZED PLANE WAVE SCATTERING BY A WINDOW ON A 1948 THICK CONDUCTING WALL

Cuong Manh Bui, Hiroshi Shirai, Chuo University, Japan

FR-A4.2P.5: NEAR-FIELD TO FAR-FIELD RCS PREDICTION FOR LARGE-SCALE SCATTERERS BASED ON MULTI-LEVEL SPHERICAL WAVE EXPANSION	1950
<i>Woobin Kim, Jong-Gwan Yook, Yonsei University, Korea (South); Ic-Pyo Hong, Kongju National University, Korea (South)</i>	
FR-A4.2P.6: HYBRID FULL-WAVE/RAY-TRACING PROPAGATION MODELING OF RECONFIGURABLE INTELLIGENT SURFACE-ENABLED COMMUNICATION CHANNELS	1952
<i>Yuanzhi Liu, Costas Sarris, University of Toronto, Canada</i>	
FR-A4.2P.7: BI-STATIC RADAR CROSS SECTION SIMULATION FOR A WIND FARM AT SHORT-WAVE FREQUENCIES	1954
<i>Robert Langwieser, Christoph Mecklenbräuker, Technische Universität Wien, Austria; Hermann Bühler, Dipl.-Ing. Dr. Hermann Bühler GmbH, Austria</i>	
FR-A4.2P.8: RESONANCE BEHAVIOR OF A CONDUCTING WIRE OBJECT BELOW A HALFSpace	1956
<i>Siyuan Li, Hoi-Shun Lui, University of Technology Sydney, Australia; Chad Hargrave, Commonwealth Scientific and Industrial Research Organisation, Australia</i>	
FR-A4.2P.9: RESONANCE BEHAVIOR OF A CONDUCTING WIRE OBJECT ABOVE A HALFSpace	1958
<i>Siyuan Li, Hoi-Shun Lui, University of Technology Sydney, Australia; Chad Hargrave, Commonwealth Scientific and Industrial Research Organisation, Australia</i>	
FR-A4.2P.10: DEEP LEARNING BASED HIGHER-ORDER APPROXIMATION FOR MULTIPLE KNIFE EDGE DIFFRACTION	1960
<i>Viet-Dung Nguyen, Ali Mansour, Arnaud Coatanhay, Lab-STICC, UMR6285 CNRS ENSTA Bretagne, France; Huy Phan, School of Electronic Engineering and Computer Science, Queen Mary University of London, United Kingdom; Thierry Marsault, Direction générale de l'armement, France</i>	
FR-A5.1P: RECENT ADVANCES IN SMART, DISTRIBUTED AND MIMO ANTENNA ARRAYS	
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<i>Arianna Benoni, Marco Salucci, Paolo Rocca, Giacomo Oliveri, Andrea Massa, ELEDIA@UniTN - University of Trento, Italy</i>	
FR-A5.1P.2: SYNTHESIS OF MODULAR ELECTROMAGNETIC SKINS FOR MULTIPLE BLIND SPOT COVERAGE IN URBAN SCENARIOS	1964
<i>Pietro Da Rù, Paolo Rocca, Andrea Massa, ELEDIA@UniTN - University of Trento, Italy; Leandro Lorenzelli, FBK - Foundation Bruno Kessler, Italy</i>	
FR-A5.1P.3: HIGH ACCURACY WIRELESS TIME SYNCHRONIZATION FOR DISTRIBUTED ANTENNA ARRAYS	1966
<i>Jason M. Merlo, Jeffrey A. Nanzer, Michigan State University, United States</i>	
FR-A5.1P.4: CHANNELIZED FREQUENCY SYNCHRONIZATION USING CONSENSUS AVERAGING FOR DISTRIBUTED PHASED ARRAYS	1968
<i>William Torres, Serge Mghabghab, Jeffrey Nanzer, Michigan State University, United States</i>	
FR-A5.1P.5: FLEXIBLE SELF-ALIGNMENT RECEPTION FOR OAM-BASED LARGE-CAPACITY WIRELESS BACKHAUL LINKS	1970
<i>Yufei Zhao, Yilong Lu, Yong Liang Guan, Nanyang Technological University, Singapore; Qiuli Wu, Chao Zhang, Tsinghua University, China</i>	

FR-A5.1P.6: A MIMO ANTENNA ARRAY WITH AN INTEGRATED BANDSTOP FILTER AT W BAND	1972
<i>Asif Hassan, Md Nurul Anwar Tarek, Sandhiya Reddy Govindarajulu, Elias A. Alwan, Florida International University, United States</i>	
FR-A5.1P.7: EXPERIMENTAL IMPLEMENTATION OF MICROWAVE MULTI-OBJECTIVE LINEAR CONSTRAINED MINIMUM POWER BEAMFORMING IN THE NEAR FIELD	1974
<i>Ahona Bhattacharyya, Serge R. Mghabghab, Stavros Vakalis, Jeffrey A. Nanzer, Michigan State University, United States</i>	
FR-A5.1P.8: INTER MODE INTERFERENCE IN CIRCULAR ANTENNA ARRAYS FOR ORBITAL ANGULAR MOMENTUM (OAM) BASED COMMUNICATION	1976
<i>M. Wulff, C. Yang, C. Schuster, Hamburg University of Technology (TUHH), Germany; L. Wang, Heriot-Watt University, United Kingdom</i>	
FR-A5.1P.9: MODIFIED COUPLING APERTURE TO OPTIMIZE THE POWER TRANSFER IN A FABRY-PÉROT OPEN-CAVITY RESONATOR	1978
<i>Julie de Nooij, Marjolijn Kleijer, Ad Reniers, Eindhoven University of Technology, Netherlands</i>	
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<i>Shuai S. A. Yuan, Wei E. I. Sha, Zhejiang University, China</i>	
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FR-A5.2P.1: RECONFIGURABLE 3-D PRINTED HONEYCOMB PUZZLE PIECE PATCH ANTENNA	1982
<i>Patricio Guerron, Reena Dahle, State University of New York (SUNY), United States; Yi-hsiang Chang, Illinois State University, United States; Sima Noghianian, CommScope Ruckus Wireless, United States</i>	
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<i>Ljubodrag Boskovic, Dejan Filipovic, University of Colorado Boulder, United States</i>	
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<i>Avinash Sharma, Robert Stilwell, Steve Szczesniak, Carl Carpenter, The Johns Hopkins University Applied Physics Laboratory, United States</i>	
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<i>Saurabh Shukla, A. R. Harish, Indian Institute of Technology Kanpur, India; Kapil Saraswat, Central University of Rajasthan, India</i>	
FR-A5.2P.5: PERFORMANCE ENHANCEMENT OF SMALL APERTURE HORN ANTENNA BY THREE DIMENSIONAL PRINTABLE PROTOTYPE	1990
<i>Sujan Shrestha, Hijab Zahra, Arslan Kiyani, Syed Muzahir Abbas, Mohsen Asadnia, Macquarie University, Australia; Syed Naheel Raza Rizvi, Chungbuk National University, Korea (South)</i>	
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<i>Wesley Spain, Yihang Chu, Cameron Crump, Premjeet Chahal, Michigan State University, United States</i>	
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<i>Collin Wallish, Mohamed Elmansouri, Dejan Filipovic, University of Colorado Boulder, United States</i>	
FR-A5.2P.8: WIDEBAND MONOCONE WITH INTEGRATED COAXIAL BANDPASS FILTER FOR UAV APPLICATIONS	1996
<i>Amrita Bal, Dejan Filipovic, University of Colorado Boulder, United States</i>	

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<i>Ricardo A. M. Pereira, Nuno Borges Carvalho, Institute of Telecommunications, University of Aveiro, Portugal; Miguel A. Silva Costa, J. Martinho M. Oliveira, CICECO, Aveiro Institute of Materials, University of Aveiro, Portugal</i>	
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<i>Qianyi Liu, Yi Zhang, Fan Zhang, Jun Xu, University of Electronic Science and Technology of China, China</i>	
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<i>Alejandro Rangel, Quanta Electromagnetic Science S.A.S, Colombia; Mae Almansoori, Felix Vega, Adamo Banelli, Chaouki Kasmi, Technology Innovation Institute, United Arab Emirates</i>	
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<i>Blake Wong, Scott Clemens, Magdy Iskander, Zhengqing Yun, University of Hawaii at Manoa, United States</i>	
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<i>Trung Dung Ha, Liang Zhu, Pai-Yen Chen, University of Illinois at Chicago, United States</i>	
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<i>Mohammed Kalaagi, Railenium, France; Divitha Seetharamdoo, universit� gustave eiffel, France</i>	
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<i>Michele Bonanni, Francesco Chiti, Giovanni Collodi, Stefano Maddio, Giuseppe Pelosi, Laura Pierucci, University of Florence, Italy</i>	
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<i>Irfan Ullah, Mahmoud Wagih, Steve Beeby, University of Southampton, United Kingdom</i>	
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<i>Gopika R, Chinmoy Saha, Indian Institute of Space Science and Technology, India; Yahia M M Antar, The Royal Military College of Canada, Canada</i>	
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<i>Xin Liu, Dawei Zhang, Tao Jiang, Harbin Engineering University, China; Yingsong Li, Anhui University, China</i>	
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<i>Mohammad Abdolrazzaghi, Roman Genov, George V. Eleftheriades, University of Toronto, Canada</i>	

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<i>Yiying Wang, Yuanzheng Xu, Jinjun Mo, Guilin University Of Electronic Technology, China; Bo Wang, Xi'an Electronic Engineering Research Institute, China; Omar M. Ramahi, University of Waterloo, Canada</i>	
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<i>Jaegeun Ha, Mike Zierdt, Michael Holyoak, Nokia Bell Labs, United States</i>	
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<i>Nadia Kari, Divitha Seetharamdoo, Jean Laheurte, François Sarrazin, Universite Gustave Eiffel, France</i>	
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<i>Iftikhar ud Din, Syeda Iffat Naqvi, Sadiq Ullah, University of Engineering & Technology, Pakistan; Arslan Kiyani, Syed Muzahir Abbas, Macquarie University, Australia; Ahmed Jamal Abdullah Al-Gburi, Universiti Teknikal Malaysia Melaka, Malaysia</i>	
FR-A1.4P.5: ANALYSIS OF DEFORMED ANTENNA ARRAY BASED ON INFINITESIMAL DIPOLE MODEL	2066
<i>Shaofan Lian, Wei Wang, Yatian Zhou, Shunxi Lou, Hong Bao, Liwei Song, Xidian University, China; Guojun Leng, The 29th Research Institute of China Electronics Technology Group Corporation, China</i>	
FR-A1.4P.6: A 2×3 HIGH-GAIN COUPLED PATCH ARRAY FOR BODY AREA NETWORK APPLICATIONS	2068
<i>Peyman PourMohammadi, Hassan Naseri, Rabeia Alwahishi, Tayeb A. Denidni, Institut National de la Recherche Scientifique, Université du Québec, Montréal, Canada, Canada; Guy A.E. Vandenbosch, KU Leuven, Belgium</i>	
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<i>Emmanuel Ampoma Affum, Kofi Anane Boateng, Kwame Nkrumah University of Science and Technology, Ghana; Sunday Adeola Ajagbe, Ladoke Akintola University of Technology, Nigeria; Matthew O. Adigun, University of Zululand, South Africa</i>	
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<i>Yujie Chen, Wei Wang, Shaofan Lian, Shunxi Lou, Hong Bao, Liwei Song, Xidian University, China; Guojun Leng, The 29th Research Institute of China, China</i>	
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<i>Youngno Youn, Wonbin Hong, Pohang University of Science and Technology, Korea (South)</i>	
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<i>Adamo Banelli, John Pantoja, Felix Vega, Chaouki Kasmi, Technology Innovation Institute, United Arab Emirates</i>	
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<i>Dajiang Li, Ming-Chun Tang, Mei Li, Chongqing University, China; Richard W. Ziolkowski, University of Technology Sydney, Australia</i>	
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<i>Anil Kumar Nayak, University of Alberta/ IIT Roorkee, Canada; Igor M Filanovsky, Kambiz Moez, University of Alberta, Canada; Amalendu Patnaik, IIT Roorkee, India</i>	
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<i>Syed Naheel Raza Rizvi, Chungbuk National University, Korea (South); Muhammad Sarfraz, Virtual University of Pakistan, Pakistan; Mohammad Alibakhshikenari, Universidad Carlos III de Madrid, Spain; Mariana Dalarsson, KTH Royal Institute of Technology, Sweden; Fransisco Falcone, Public University of Navarre, Spain</i>	
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<i>Anil Kumar Nayak, University of Alberta/IIT Roorkee, Canada; Igor M Filanovsky, Kambiz Moez, University of Alberta, Canada; Amalendu Patnaik, IIT Roorkee, India</i>	
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<i>Srujana Kagita, Indian Institute of Technology Tirupati, India; Ananjan Basu, Indian Institute of Technology Delhi, India; Shibhan Koul, Indian Institute of Technology, India</i>	

FR-A1.2P.8: DUAL-BAND ACOUSTICS PROMOTED LOW FREQUENCY ANTENNA	2036
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