

MRRS 2014 PROGRAM

23 September, 2014

08.00 -	MRRS 2014 REGISTRATION	Building1, Foyer (2 nd Floor)
10.00 – 12.00	OPENNING CEREMONY AND PLENARY SESSION	Assemble Hall, Building1
12.15 – 13.00	Lunch	
13.00 – 14.00	Excursion at Museum of National Aviation University, Educational Hangar and General Photograph	Building1, Museum of National Aviation University
14.00 – 15.40	SESSION A1 SIGNAL AND IMAGE PROCESSING Chair: Dr. Volodymyr I. Vasylyshyn	Assemble Hall, Building1
14.00-14.20	LOWER BOUND ON IMAGE FILTERING MEAN SQUARED ERROR IN THE PRESENCE OF SPATIALLY CORRELATED NOISE <i>Mikhail Uss, Aleksey Rubel, Vladimir Lukin, National Aerospace University, Kharkov, Ukraine</i> <i>Benoit Vozel, KacemChehdi, University of Rennes 1 – Enssat France, Rennes</i>	
14.20-14.40	A NEURAL NETWORK BASED PREDICTOR OF FILTERING EFFICIENCY FOR IMAGE ENHANCEMENT <i>Aleksey Rubel, Aleksey Naumenko, Vladimir Lukin, National Aerospace University, Kharkov, Ukraine</i>	
14.40-15.00	DIRECTION FINDING USING BANK OF MODIFIED WEIGHTED UNITARY ROOT –MUSIC ESTIMATORS <i>Volodymyr I. Vasylyshyn, Kharkiv Air Force University, Kharkiv, Ukraine</i>	
15.00 – 15.20	STATISTICAL ANALYSIS OF METEOROLOGICAL ECHOES MEAN POWER ESTIMATE <i>Dmytro S. Rachkov, David I. Lekhovytskiy, Andrii V. Semeniaka, Kharkiv National University of Radio Electronics, Kharkiv, Ukraine</i>	

15.20 – 15.40	HARMONIC SIGNAL FREQUENCY ESTIMATION UNDER AN IMPULSE INTERFERENCE ACTION I. G. Prokopenko, I. P. Omelchuk, Y. D. Chyrka, <i>National Aviation University, Kyiv, Ukraine</i>
15.40– 16.00	COFFEE – BREAK

16.00 – 17.40	SESSION A2 REMOTE SENSING Chair: Prof. Felix J. Yanovsky	Assemble Hall, Building1
16.00 – 16.20	SOME FEATURES OF A RADAR MEASURING POLARIZATION SPECTRUM Yuliya Averyanova, Felix J. Yanovsky, <i>National Aviation University, Kyiv, Ukraine</i>	
16.20– 16.40	COMBINED USE OF RADIOMETER AND DOUBLE FREQUENCY RADAR FOR MEASUREMENT OF RAIN INTENSITY Anna Linkova, Grygoriy Khlopov, <i>A. Ya. Usikov Institute for Radiophysics and Electronics of National Academy of Sciences of Ukraine, Kharkiv, Ukraine</i>	
16.40– 17.00	POLARIMETRIC RADAR AS A DEVICE FOR DETECTING POTENTIALLY DANGEROUS ZONES OF AIRCRAFT ICING Alex Pitertsev, Felix J. Yanovsky, <i>National Aviation University, Kyiv, Ukraine</i>	
17.00– 17.20	THE CREATION OF PRESSURE MAPS USING SIF/IFF INFORMATION Ladislav Gregor, Libor Drazan, Jiri Vesely, <i>University of Defence, Brno, Czech Republic</i>	
17.20– 17.40	THE MAPPING OF THE TOTAL WATER CONTENT OVER THE KHARKIV REGION BY GNSS MEASUREMENTS Alexey L. Kovorotniy, Feliks V. Kivva, Vladimir N. Gorobets, <i>A. Ya. Usikov Institute for Radiophysics and Electronics of National Academy of Sciences of Ukraine, Kharkiv, Ukraine</i> Yuriy V. Goncharenko, <i>University of Birmingham, Birmingham, UK</i>	
18.00	WELCOME PARTY	

24, September, 2014

09.00 – 10.40	SESSION A3 MICROWAVE DEVICES AND ANTENNAS Chair: Prof. Igor Prokopenko	Building 3, room 406
09.00 – 09.20	A NEW HIGH-PERFORMANCE OPA BASED VCO FOR MICROWAVE APPLICATIONS V.V. Ulansky, A. A. Kolesnik, <i>National Aviation University, Kyiv, Ukraine</i> H.M. Elsherif, <i>Tripoli University, Tripoli, Libya</i>	
09.20 – 09.40	SMALL-APERTURE DIELECTRIC DISK ANTENNA WITH THE AXIAL RADIATION Sergey Radionov, Ivan Ivanchenko, Nina Popenko, <i>O.Ya. Usikov Institute for Radiophysics and Electronics of the NAS of Ukraine, Kharkiv, Ukraine</i>	
09.40 – 10.00	OCCUPIED BANDWIDTH OF DIGITAL TELEVISION MEASUREMENT AT MONITORING STATIONS Leonid Sibruk, Bondarenko D.P., Basanskyy O.A., <i>National Aviation University, Kyiv, Ukraine</i>	
10.00 – 10.20	PARAMETERS MEASUREMENT AND OPERATING MODE DETERMINATION FOR MICROWAVE CIRCUIT Lyudvig Y. Ilnitsky, Leonid V. Sibruk, Olga A. Shcherbina, <i>National aviation university, Kyiv, Ukraine</i>	
10.20 – 10.40	TIME-DOMAIN CHARACTERIZATION OF NOVEL BAND NOTCHED MICROSTRIP ANTENNAS FOR UWB APPLICATION Hemlata Soni, Pradeep Chhawcharia, <i>Techno India NJR Institute of Technology Udaipur (Rajasthan), India</i> Pushtivardhan Soni, Dhirubhai Ambani, <i>Institute of Information and Communication Technology, Gandhinagar (Gujarat), India</i>	
10.40-10.50	COFFEE – BREAK	
10.50 -12.30	SESSION A4 SIGNAL AND DATA PROCESSING Chair: Dr. Rustem Sinitsyn	Building 3, room 406

10.50 – 11.10	CFAR DETECTION ALGORITHM OF NOISE-LIKE RADAR SIGNALS Igor Prokopenko, Igor Martynchuk, <i>National Aviation University, Kyiv, Ukraine</i>
11.10 – 11.30	COMPARISON OF APPROXIMATION AND RIGOROUS SOLUTION OF ELECTROMAGNETIC SCATTERING FROM NONSPHERICAL DROPS Grigoriy Khlopov, Ganna Veselovska, <i>O.Ya. Usikov Institute for Radiophysics and Electronics of the NAS of Ukraine, Kharkiv, Ukraine</i>
11.30 – 11.50	PASSIVE ACOUSTIC RADAR FOR AIRCRAFT TRAJECTORY TRACKING Rustem Sinitsin, Felix Yanovsky, Eugene Chervoniak, Oleksandr Zaporozhets, <i>National Aviation University, Kyiv, Ukraine</i>
11.50 – 12.10	NONPARAMETRICAL RANK DETECTION AND ESTIMATION OF RADAR DOPPLER SIGNALS Kostyantyn Prokopenko, <i>National Aviation University, Kyiv, Ukraine</i>
12.10 – 12.30	MODELING OF DISCRETE CONDITION MONITORING FOR RADAR EQUIPMENT Ahmed Raza, <i>Department of the President's Affairs Abu Dhabi, UAE</i> Vladimir Ulansky, <i>National Aviation University, Kyiv, Ukraine</i>
12.30-12.50	OPTIMIZATION OF USE OF RESOURCES IN MULTIPOSITION RADAR SYSTEMS Igor Prokopenko, Vitalii Vovk, Sergey Stavitskiy, Valeriy Medvedev, <i>National Aviation University, Kyiv, Ukraine</i>
13.00 – 14.00	LUNCH

14.00-16.40	SESSION A5 MICROWAVE AND NANOELECTRONIC DEVICES Chair: Prof. Vladimir Ulansky	Building 3, room 406
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14.00 – 14.20	X-RAY 3D STEREO REMOTE SENSING FOR BIOMEDICAL APPLICATION S.I. Miroshnychenko, <i>“Teleoptic” PRA” Ltd, Kiev, Ukraine</i> E.V.Volkov, <i>National Aviation University, Kyiv, Ukraine</i>
14.20 – 14.40	RESIDUAL PHASE ERRORS AND AUTOFOCUSING IN AIRBORNE SAR SYSTEMS Ievgen M. Gorovyi, Oleksandr O. Bezvesilniy, Dmytro M. Vavriv, <i>Institute of Radio Astronomy of NAS of Ukraine, Kharkiv, Ukraine</i>
14.40 – 15.00	CLASSIFICATION, IDENTIFICATION AND DETECTION OF BIOLOGICAL AGENTS WITH GRAPHENE NANOSENSOR Emir G. Aznakayev, Diana E. Aznakayeva, <i>National Aviation University, Kyiv, Ukraine</i>
15.00 – 15.20	DEVELOPMENT OF LOW POWER MULTI CHANNEL INTERPOLATOR FOR SYSTEM ON CHIP IN 4G APPLICATION Vivek Jain, Navneet Agarwal, <i>MPUAT, Udaipur, India</i> Pradeep Chhawcharia, <i>Techno India NJR Institute of Technology Udaipur (Rajasthan), India</i>
15.20 – 15.40	AN OVERVIEW OF SPECTRUM SENSING IN COGNITIVE RADAR SYSTEMS M. Tahir Mushtaq, Faran Awais Butt, Ahmed Malik, <i>School of Engineering University of Management and Technology, Lahore, Pakistan</i>
15.40 - 16.00	CLOSING CEREMONY AND AWARDS
	Excursion
18.00	CONFERENCE DINNER

25, September, 2014

OPTIONAL VISITING INTERNATIONAL EXHIBITION FOR AVIATION AND SPACE INDUSTRY “AVIAWORLD” AND CITY TOUR