

25 September

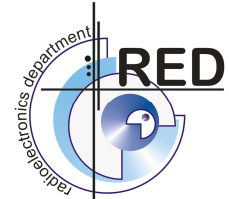
08¹⁰ - , Foyer in the 1st building, Ground Floor
Registration

10⁰⁰, Assembly hall in the 1st building

FIFTH WORLD AVIATION CONGRESS Opening Ceremony and Plenary Session

12³⁰, bus at the 1st building

Social event (supposedly, boat tour along Dnieper river with a lunch on shipboard)



26 September

09⁰⁰, room 1.001

RADAR METHODS AND SYSTEMS WORKSHOP (RMSW 2012)

RMSW 2012 Chairman – Felix Yanovsky
RMSW 2012 Coordinator – Yuliya Averyanova

SESSION B1

Mathematical methods and modelling in radar

Chairperson – Prof. Felix Yanovsky, Ukraine

26 September, 09⁰⁰ -10⁴⁰,
Academic Council Hall

- 09⁰⁰ – 09²⁰ 1. Mathematical Models and Methods to Radar
N. M. Glazunov, F. J. Yanovsky, NAU, Ukraine
- 09²⁰ – 09⁴⁰ 2. A Technique of Space Discretisation for CW-radars
Sergey F. Kolomiets, Moscow Institute of Physics and Technology, Dolgoprudniy, Russia
- 09⁴⁰ – 10⁰⁰ 3. One-Survey-Detection and Estimation of Trajectory Parameters of Rapid Radar Targets
Igor Prokopenko, Vitaliy Yovk, NAU, Ukraine
- 10⁰⁰ – 10²⁰ 4. Rayleigh Scattering Revised
Gorelik A.G., Kolomiets S. F., Moscow Institute of Physics and Technology, Dolgoprudniy, Russia
- 10²⁰ – 10⁴⁰ 5. Ground Penetration Radar Simulations of Non-Homogeneous Soil with CST Studio Suite
Mariusz Zych, Bumar Elektronika S.A. Warsaw, Poland; Institute of Electronic Systems, Warsaw University of Technology, Warsaw, Poland

Coffee-break

SESSION B2

Design of radar components and antennas

Chairperson – Prof. Volodymyr Ulansky, Ukraine

26 September, 11⁰⁰ -12⁴⁰,
Academic Council Hall

- 11⁰⁰ – 11²⁰ 1. The Design and Optimization of Voltage Controlled Oscillators in 0.13 μ m CMOS Technology for 3G and Bluetooth Transceivers
V.V. Ulansky, V.G. Antoshkin, D.S. Draga, N.E. Kornitsky, B.V. Pauk, O.S. Ponomarev, NAU, Ukraine
- 11²⁰ – 11⁴⁰ 2. A New Design of Band Notched Microstrip Antenna for UWB Applications
Hemlata Soni, Pushtivardhan Soni, Bhoopendra Sharma, Pradeep Chhawcharia, Electronics & communication, Techno India NJR Institute of Technology, India
- 11⁴⁰ – 12⁰⁰ 3. Double Side Microstrip Antennas with Three Slots for UWB Applications with Band Rejection Characteristics
Hemlata Soni, Pushtivardhan Soni, Bhoopendra Sharma, Pradeep Chhawcharia, Electronics & communication, Techno India NJR Institute of Technology, India
- 12⁰⁰ – 12²⁰ 4. Radiation Pattern Generation Using a Modified Least Squares Method
B. Pompeo, L. Pralon, M. Pralon, H. Cioquetta, G. Beltrão, R. Mendes, Brazil
- 12²⁰ – 12⁴⁰ 5. Wearable Antenna for GPS Applications
Yahya S. H. Khraisat, Al-Balqa' Applied University/Al-Huson university College, Jordan

12⁴⁵ – 13⁴⁵ Dining hall Lunch

SESSION B3

Radar signal design, signal and image processing

Chairperson – Prof. Gaspare Galati, Italy

26 September, 13⁵⁰ - 15¹⁰,
Academic Council Hall

- 13⁵⁰ – 14¹⁰ 1. Phase-Noise signals design for modern radar applications
Gaspare GALATI and Gabriele PAVAN, Tor Vergata University, Roma, Italy
- 14¹⁰ – 14³⁰ 2. Scatter-Plot Based Blind Estimation of Mixed Noise Parameters for Remote Sensing Image Processing
V.V. Abramova, S.K. Abramov, V.V. Lukin, National Aerospace University, Ukraine, B. Vozel, K. Chehdi, University of Rennes I, France
- 14³⁰ – 14⁵⁰ 3. Network Based Edge Detection in Prefiltered SAR Images
A.V. Naumenko, V.V. Lukin, National Aerospace University, Ukraine, K. Egiazarian, Tampere University of Technology, Finland
- 14⁵⁰ – 15¹⁰ 4. Range-azimuth radiometric imaging using Ka-band Noise waveform SAR
K. A. Lukin, V.P. Palamarchuk, P.L. Vyplavin, V.V. Kudriashov, LNDES, IRE NASU, Kharkov, Ukraine
- 15¹⁰ – 15³⁰ 5. Modeling and Regression Approximation of Dependence of Optimal Smoothing Parameter on the Sample Size for Kernel Probability Density Estimation
Igor Prokopenko, Igor Martynchuk, National Aviation University, Ukraine

Coffee-break

SESSION B4

Poster Session

Chairperson – Prof. Igor Prokopenko, Ukraine

26 September, 15³⁰ – 16²⁰

Foyer in the 1st building, 1st Floor

1. Compensation of Radiation Damage in the Integrated Circuits on MOS Transistors
M.K.Baizhumanov, A.A.Tuyakbayev, Academy of the Civil Aviation, Almaty, Republic Kazakhstan, V.K.Bishimbayev, Member of Parliament, Republic Kazakhstan, D.A.Tuyakbaev, “GAZI” University, Ankara, Turkey
2. Single-level Model for Simulation of the Effect of Electron Irradiation on Transistors
A.A.Tuyakbayev, M.K.Baizhumanov, Academy of the Civil Aviation, Almaty, Republic Kazakhstan, D.A.Tuyakbaev, “GAZI” University, Ankara, Turkey
3. Influence of Electromagnetic Waves on Carbon Nanotubes Composites
D.E. Aznakayeva, N.M. Nischenko, E.G.Aznakayev, National Aviation University, Ukraine
4. Superheterodyne Amplification of Optical and Terahertz Beams in Nitride Films
C. Castrejon-M., V. Grimalsky, S. Koshevaya, CIICAp, Autonomous University of State Morelos (UAEM). Mexico, Yu. Rapoport, Physical Faculty, T. Shevchenko National University, Kiev, Ukraine
5. Modern and prospective methods for dangerous meteorological phenomena observation
Yu. Averyanova, National Aviation University, Ukraine
6. Transient processes and the Fourier transform
N. A. Mironov, National Aviation University, Ukraine
7. The development of program model for electromagnetic compatibility estimation
L.V. Sibruk, D.P. Bondarenko, D.L. Sibruk, NAU, Ukraine
8. Radar Detection of Volcanic Ash Cloud: Maximum Range
Andrey Mikolushko, National Aviation University, Ukraine
9. The use of radiolocation control methods to protect the perimeters of large objects
K. Kolesnik, A. Kipensky, E. Sokol, NTU “KhPI”, Kharkov, Ukraine
10. Radiotechnical Systems of Detection Radio Signals and Evaluation of Their Characteristics Under the Influence of Noise
G. Sokolovska, L. Shcherbak, National Aviation University, Ukraine
11. Millimeter and Sub-Millimeter Wave Radiometric Imaging Systems.
A. A. Vertiy, International Laboratory for High Technology (ILHT), Gebze-Kocaeli, Turkey. A. V. Pavlyuchenko, International Laboratory for High Technology (ILHT), Turkey; State Research Center “Iceberg”, Kiev, Ukraine. A.G. Denisov, State Research Center “Iceberg”, Kiev, Ukraine. F. Hacizade, D. Riza, A. Kholmatov, National Research Institute of Electronics and Cryptology (UEKAE), Gebze-Kocaeli, Turkey

SESSION B5

Remote sensing methods and systems

Chairperson – Prof. Alex Vertiy, Turkey

26 September, 16²⁰ -18⁰⁰,

Academic Council Hall

- 16²⁰ – 16⁴⁰ 1. Automatic Measuring System for Remote Sensing for Monitoring Adverse Weather Conditions
E.A.Miller, E.N.Kadygrov, Central Aerological Observatory, Russia,
A.V.Troitsky, Radiophysical Research Institute, Russia,
A.N.Shaposhnikov, Central Aerological Observatory, Russia
- 16⁴⁰ – 17⁰⁰ 2. Extremely High Frequency Radiometric Imaging System
A. A. Vertiy, A. V. Pavlyuchenko, International Laboratory for High Technology, Turkey
- 17⁰⁰ – 17²⁰ 3. Double Frequency Sounding of Ellipsoidal Water Drops
A. B. Veselovskaya, A. M. Linkova, G.I. Khlopov, Institute of RadioPhysics and Electronics J. Usikov National Academy of Science of Ukraine, Ukraine
- 17²⁰ – 17⁴⁰ 4. Airborne Radar – Thermal Infrared Diagnosing of Overwatering Soils
V.K.Ivanov, A.Ya.Matveev, V.N.Tsymbal, S.Ye.Yatsevich, IRE of NAS of Ukraine, Ukraine
- 17⁴⁰ – 18⁰⁰ 5. Spectral-Polarimetric Method of Objects and Phenomena Observation
F. J. Yanovsky, National Aviation University, Ukraine

Closing remarks on the RMSW-2012