

Program

Electronic Systems, Micro- and Nanosystem Technique, and IoT Electronic Technology Symposium

October 10-12, 2018, Kiev, Ukraine

ESMNT 2018 SCHEDULE

10 October 2018, Wednesday

10.00 ESMNT 2018 Registration **Building 1, Foyer**

11.00 -11.00

XI International Aviation and Space salon AVIASVIT-XXI (IEC, 15 Brovarkoy Ave.)

14.00-17.00

Symposium (IEC, 15 Brovarkoy Ave.)

17.30 Welcome Party

11 October 2018, Thursday

09.00 – 10.00 Registration

10.00-12.00 Plenary Session (Building1, Academic Council Hall , 3-rd floor)

12.15 – 13.15 Lunch

Session ESMNT 1 Invited Talk

13.30 – 15.00 (Building1, Academic Council Hall , 3-rd floor)

Chairperson – Felix Yanovsky, National Aviation University, Ukraine.

1. Graph Signal Processing: Filtering and Sampling,
Geert Leus, Delft University of Technology, The Netherlands

15.00 – 15.30 Coffee Break and General Photography

Session ESMNT 2 Micro- and Nanoelectronic Devices and Systems

15.30 – 17.10 (Building1, Academic Council Hall , 3-rd floor)

Chairpersons – Felix Yanovsky and Yuliya Averyanova, National Aviation University, Ukraine.

1. Research of a Capacitive Distance Sensor to Grounded Surface.

A. S. Levytskyi, I.O. Zaitsev, A.I. Novik, V.O. Bereznychenko, The Institute of Electrodynamics of the NAS of Ukraine, Ukraine.

A.M. Smyrnova, Kyiv National University of Trade and Economics, Ukraine.

2. Formation of Ultrashort Pulses of THz Range in Narrow Gap Semiconductors.

V. Grimalsky, S. Koshevaya, J. Escobedo-A., Autonomous University of State Morelos (UAEM), Mexico.

Yu.Raport, T. Shevchenko National University, Ukraine.

3. Electrical and Quantal Analysis of Photonic Crystals.

Chen Xiang, Fanmin Kong, Kang Li, Shandong University, China.

4. Reprogrammable Multiplexer Nanocircuits.

O.S. Melnyk, A.M. Mikolushko, T.K. Denysko, National Aviation University, Ukraine.

5. Nanocircuit for Protection of the Cryptographic Information.

O.S. Melnyk, D.G. Milke, Y.V. Poliakov, National Aviation University, Ukraine.

12 October 2018, Friday

Session ESMNT 3 Radio-Electronics Systems, Methods and Technologies

09.00 – 10.40 (Building1, Academic Council Hall , 3-rd floor)

Chairpersons – L.V. Sibruk, National Aviation University, Ukraine.

Maria Antyufeeva, V. N. Karazin Kharkiv National University, Ukraine.

1. Comparative Study of Signal Processing of Two UWB GPR Antenna Units.

D. O. Batrakov, K. S. Beloshenko M. S. Antyufeyeva, V. N. Karazin Kharkiv National University, Ukraine.

A. G. Batrakova, S. N. Urdzik, Kharkiv National Automobile and Highway University.

2. Composite Particles Model of Doppler-Polarimetric Meteorological Radar Signal.

Anna Rudiakova, Yuliya Averyanova, Felix Yanovsky, National Aviation University, Ukraine.

3. Antenna of Mobile Radio Monitoring System

L.Y. Ilnitskyi, L.V. Sibruk, I.I. Mykhalchuk, National Aviation University, Ukraine.

4. Measuring the Size of Objects by X-ray Stereoscopy in Nondestructive Testing and Medical Use.

S.I. Miroshnychenko, E.V. Volkov, (National Aviation University, Ukraine, "Teleoptika SPA. Ltd.

5. Advantages and Disadvantages of Hybrid Electric Propulsion Systems.

Halil Yalcin AKDENIZ, Eskisehir Osmangazi University, Eskisehir Vocational School, Turkey.

Onder ALTUNTAS, Eskisehir Technical University, Faculty of Aeronautics and Astronautics, Turkey.

M. Ziya SOGUT, Piri Reis University, Maritime Faculty, Turkey.

T. Hikmet KARAKOÇ, Eskisehir Technical University, Faculty of Aeronautics and Astronautics, Turkey.

10.40-11.10 Coffee Break

Session ESMNT 4 Electronics in Biomedical and Cryptographic Applications

11.10 – 12.40 (Building1, Academic Council Hall , 3-rd floor)

Chairpersons – A. Biletsky and M. Glazunov, National Aviation University, Ukraine.

1. Multidimensional Gray Transformations in Cryptographic Applications

A.Ya. Beletsky, National Aviation University, Ukraine.

2. About the Minimum Number of S-blocks Activated on First SPN Cycles.

I.V. Lisitskaya, K.E. Lisitsky, Kharkov National University, V.N. Karazine, Ukraine.

3. Modern Development Trends of the Digital Radiographic Units.

N.S. Miroshnichenko, S.I. Miroshnichenko, National Aviation University, Ukraine.

A. A. Nevgasymyi, PhD (Production Research Company Teleoptic, Ukraine.

4. Methods of Mathematics and Bioinformatics in Contemporary Oncology.

O. M. Klyuchko, National Aviation University, Ukraine.

T.V. Pyatchanina, M.G.Mazur, Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, National Academy of Sciences of Ukraine, Ukraine.

13.00 – 15.00 ESMNT 2018 Closing Ceremony, Award and Lunch

15.00 - 17.00 Sessions of 8th World Congress "Aviation in the 21st Century" –
"Safety in Aviation and Space Technologies"