IEEE

IEEE UKRAINE SECTION

Call for Papers

Important Dates:

Paper Submission: Extended
September ~~16~~ 23, 2022

Paper Acceptance Notification:
October ~~16~~ 23, 2022

Final Paper Submission:
November 1, 2022

IEEE Ukrainian Microwave Week:
November 14 – 18, 2022

The Organizing Committee is pleased to invite you to participate in the IEEE 2nd Ukrainian Microwave Week. On February 24, Russia treacherously invaded Ukraine, which negatively affected all areas of our lives. We had to postpone the Week from June to November, but we are still full of desire to organize it at a high-quality level.

This year, the conference is planned in a virtual format. However, in acknowledgement of our pre-scheduled 2022 Host, V. N. Karazin Kharkiv National University, we retain Karazin university as the technical sponsor of the Week. And we will retain a mention of the University on the website and other materials.

The Ukrainian Microwave Week is organized to unite several international Microwave, Antennas and Radar conferences, workshops and symposia which are traditionally held in Ukraine. As a result, in 2020, four IEEE conferences (MSMW, ICATT, MRRS and UWBUSIS) were united into one common event IEEE Ukrainian Microwave Week. In 2022, another IEEE conference, DIPED, also joined the Week.

The focus of 2022 Week is on Microwaves, Millimeter and Submillimeter Waves, Antenna Theory and Techniques, Radar and Remote Sensing, Ultrawideband and Ultrashort Impulse Signals, Electromagnetic Direct and Inverse Problems, Electromagnetic Theory, Geomagnetism and Acoustics.

We encourage experts in these topics to join our teams of TPCs and reviewers. To do this, just send a CV about yourself to our email week@ieee.org.ua

The IEEE Ukraine Section, being fully aware of the difficult economic situation in Ukraine this year, made participation in the IEEE Ukraine Conferences 2022 free of charge for Ukrainians. You will simply need to fill out an application form posted on the Week website.

We look forward to your papers. Victory and Peace to all of us!

DIPED ICATT MSMW UWBUSIS MRRS

Microwaves radar and remote sensing

IEEE Ukrainian Microwave Week

Conference Topics:

DIPED Track:
- Inverse problems and synthesis
- Scattering and diffraction
- Theoretical aspects of Electromagnetics
- Numerical methods in Electromagnetics
- Waveguides and photonic crystal structures
- Geomagnetism
- Acoustics: theory and applications

ICATT Track:
- General antenna theory
- Reflector, lens and hybrid antennas
- Antenna arrays
- Adaptive antennas, smart antennas
- Low-gain, printed antennas
- Antennas for mobile communications
- Antennas for industrial and medical applications
- Antennas for radioastronomy
- Antenna radomes and absorbers
- Antenna measurements

MSMW Track:

Special Session on MM and sub-MM wave technologies for 5G and beyond applications (Chairs: *Mauro ETTORRE and Artem BORISKIN*)

Special Session on Microwaves and Antennas for Wearable and Implantable Bioelectronics (Chairs: *Denis NIKOLAYEV and Artem BORISKIN*)

Regular topics:
- Waves in semiconductors and in solid-state structures
- Radiospectroscopy
- Microwave superconductivity
- Vacuum electronics
- Solid-state devices
- Radio astronomy and Earth's environment study
- Artificial materials: metamaterials and composite structures
- Scientific and industrial instrumentation
- Biomedical applications

MRRS Track:
- Active and passive radars, components and circuits
- Analog and digital components of radar and electronic systems
- Signal data and image processing
- Scattering and RCS; parametric and Doppler techniques
- Target classification and identification
- Remote sensing of Land/Atmosphere; remote sensing systems for light air vehicles and UAV
- Radar applications: Meteorology; Biomedicine, Security and Defense, Automotive, Industrial radars
- GPR and TWS radar; SAR and ISAR; Acoustic, radio-acoustic and secondary radar systems
- Metamaterials in Radar
- Educational and historical aspects

UWBUSIS Track:
- UWB signal processing
- Theoretical investigations and numerical simulations of UWB and ultrashort impulse signals and processes
- Generation and receiving of UWB signals and ultrashort impulses
- Ultra-wideband antennas
- Electromagnetic compatibility
- Electromagnetic metrology
- Propagation and scattering of ultra-wideband and ultrashort impulse signals in natural and artificial materials (complex media, radio absorbers, biomaterials, nanostructures, metamaterials, etc.);
- Ultra-wideband radar and ground penetrating radar
- Application of UWB signals and ultrashort impulses (communication, medicine, etc.)

Venue:

The 2022 IEEE 2nd Ukrainian Microwave Week would be organized and held online.

Contacts:

For more information, please, visit our websites: uamweek.ieee.org.ua or contacts us via email: week@ieee.org.ua