

**National Academy of Sciences of Ukraine (NASU)**

***Institute of Telecommunications and Global Information Space***

***Scientific Center for Aerospace Research of the Earth of the Institute of Geological Sciences***

***State institution "Scientific Hydrophysical Center of NASU”***

**Ministry of Education and Science of Ukraine**

***Taras Shevchenko National University of Kyiv***

***National Aerospace University «Kharkiv Aviation Institute»***

***Kyiv National University of Construction and Architecture***

***Kharkiv National University of Radio Electronics***

***National University of Kyiv Mohyla Academy"***

***Vinnytsia National Technical University***

**Ministry of Defence Ukraine**

**National Space Agency of Ukraine**

**National Center "Small Academy of Sciences of Ukraine"**

**University of London (Royal Holloway)**

**Kielce University of Technology (Politechnika Świętokrzyska)**

**Universita di Roma-2 “Tor Vergata”**

 ***ХХІ International***

***Scientific and Practical Conference***

*Information and communication technologies and sustainable development*

**November 14-16, 2022**

**Kyiv**

***The first information message***

**Kyiv – 2022**

**Scientific and organizational committee of the conference**

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| **Chairman:** |
| **Stanislav Dovgyi**  | Honorary Director ITGIS NASU, President of NC “Small Academy of Sciences of Ukraine", Academican of NASU, Academican of NAPS, Doctor of Physical and Mathematical Sciences, Professor |
| **Members of organizational committee :** |
| **Olga Butenko** | Professor of the Department of Geoinformation technologies and space monitoring of the Earth, KHAI, Doctor of Technical Sciences, Professor |
| **Bykov Valerii** | Director, Institute for Digitalisation of Education National Academy of Educational Sciences of Ukrain, Doctor of Technical Sciences, Professor, Academican of NAPS |
| **Olena Voloshkina** | Head of the Department of Occupational Safety and Environment, KNUCA, Doctor of Technical Sciences, Professor |
| **Petro Vorobiyenko** | Chief Researcher, ITGIS NASU, Doctor of Technical Sciences, Professor |
| **Larysa. Globa** | Head of the Information and telecommunication Department, NTUU "KPI", Doctor of Technical Sciences, Professor |
| **Oleg Gaiduk** | [Deputy Minister of Defense of Ukraine for Digital Development, Digital Transformations and Digitization](https://www.mil.gov.ua/ministry/kerivnicztvo/kerivnicztvo-ministerstva-oboroni-ukraini/gajduk-oleg-vasilovich.html) . |
| **Sergey Zaitsev** | Profesor uczelni, dr hab. inż., Katedra Systemów Informatycznych, Kielce University of Technology (Politechnika Świętokrzyska) |
| **Iurii  Kaliukh** | Chief Researcher. ITGIS NASU, Doctor of Technical Sciences, Professor |
| **Vadym Kaptur**  | Senior Researcher, ITGIS NASU, PhD in Telecommunications, Senior Scientist |
| **Oleh Kopiyka** | Acting Deputy Direction on Science and Innovations, ITGIS NASU, Doctor of Technical Sciences, Professor |
| **Dmytro Koroliuk** | Chief Researcher. ITGIS NASU, Doctor of Technical Sciences, Professor |
| **Oleksandr Lemeshko** | Head of the Department of Infocommunication Engineering V.V. Popovsky, Doctor of Technical Sciences, Professor |
| **Serhii Lupenko** | Opole University of Technology, Opole, Poland, Doctor of Technical Sciences, Professor |
| **Volodymyr****Mikheev**  | Deputy Head of [State Space Agency of Ukraine](https://www.nkau.gov.ua/), PhD |
| **Mykyta** [**Myrontsov**](https://www.nas.gov.ua/EN/PersonalSite/Pages/default.aspx?PersonID=0000008732)  | Senior Researcher, ITGIS NASU, Doctor of Physical and Mathematical Sciences (Geophysics), Senior Scientist |
| **Oksen** [**Lisovyi**](https://www.nas.gov.ua/EN/PersonalSite/Pages/default.aspx?PersonID=0000007731)  | Director, National center «Minor Academy of Sciences of Ukraine», Ph.D. (Philosophical Anthropology, Philosophy of Culture) |
| **Vitaly Mokin** | Head of the Department of System Analysis, Computer Monitoring and engineering graphics, Vinnytsia National Technical University, Doctor of Technical Sciences, Professor |
| **Oleksandr Nakonechnyi** | Head of the Department of System Analysis and Decision Making Theory, Taras Shevchenko National University of Kyiv, Doctor of Physical and Mathematical Sciences, Professor |
| **Mykhailo Popov**  | General director, [State Institution "Scientific Centre for Aerospace Research of the Earth of the Institute of Geological Sciences of the National Academy of Sciences of Ukraine"](https://www.nas.gov.ua/EN/Org/Pages/default.aspx?OrgID=0000456), Corresponding Memberof NAS of Ukraine (Aerospace Research of the Earth), Doctor of Technical Sciences, Professor |
| **Vasyl Trysniuk** | Head of Department, ITGIS NASU, Doctor of Technical Sciences, Senior Scientist |
| **Oleksandr Trofymchuk** | Director, ITGIS NASU, Doctor of Technical Sciences, Professor |
| **Vasyl Ustimenko** | University of London (Royal Holloway), Doctor of Physical and Mathematical Sciences, Professor |
| **Ievgen Khlobystov** | Professor of Environmental Studies, National University of Kyiv Mohyla Academy, Doctor of Technical Sciences, Professor |
| **Oleksandr** [**Shchyptsov**](https://www.nas.gov.ua/EN/PersonalSite/Pages/default.aspx?PersonID=0000015507)  | Director, State Institution “Scientific Hydrophysical Centre of the National Academy of Sciences of Ukraine”, Corresponding Memberof NAS of Ukraine (Oceanology), DoctorofGeographic Sciences (Oceanology), Professor |
| **Ievgen Yakovlev** | Chief Researcher, ITGIS NASU, Doctor of Technical Sciences, Senior Scientist |
| **Conference Secretariat:****Larysa Zotova**  mobile: +380-96-456-84-32, **Natalia Sheviakina**, **Natalia Khabova**  fixed. +380-44-245-87-97, mobile.: +380 - 95-779-57-99 |

**Dear colleagues!**

**We invite you to take part in the 21st International**

**scientific and practical conference**

*Information and communication technologies and sustainable development*

**The purpose of the conference:** Exchange of experience and coordination of scientific and practical activities on the development and implementation of modern information technologies supporting decisions to ensure the ecological security of regions and the effective use of their renewable natural resources.

**August 29, 2022 marked the 80th anniversary of the birth of Doctor of Technical Sciences, Professor, laureate of the State Prize of Ukraine in the field of science and technology, corresponding member of the National Academy of Pedagogical Sciences of Ukraine, valid member of the Telecommunication Academy of Ukraine and the World Academy of Integrated Security, Honored Employee of Education of Ukraine, Honorary Telecommunication Officer of Ukraine**

**PETRO VOROBIYENKO**

**As part of the conference, there will be a celebration of the jubilee**

**Areas of work of the conference:**

* Telecommunication systems
* Intelligent technologies and sustainable development
* Information technologies and mathematical modeling
* Geoinformation systems and remote sensing of the Earth

**On the occasion of the anniversary of Prof Vorobienko the work of the section will be organized in the following sub-areas:**

* Prospects for the development of telecommunication systems
* Digitization and sustainable development of society
* Promising directions for improving the cyber security system
* Prospects for the development of intellectual technologies
* Cloud computing and BigData transfer
* The role of education and science in the sustainable development of society

**Venue of the conference: Institute of Telecommunications and Global Information Space of the National Academy of Sciences of Ukraine**

 **6th floor, Room № 601**

**Address:** 13 Chokolivsky Boulevard, Kyiv

**How to get there:**

From the railway station, shuttle bus No. 401, 223 to the "Cosmonaut Square" stop

**Dates: November 14-16, 2022**

During the conference, there will be an exhibition of literature on methodical, instrumental and cartographic support of environmental monitoring tasks, planning of measures to prevent and eliminate the consequences of emergency situations, management of nature use and environmental protection.

Plenary Presentations – 30 minutes. Sectional Presentations – 20 minutes

**A printed proceedings of conference will be issued to registered participants of the conference.**

**Conference Proceedings**

For printing in the Conference Proceedings, only the abstracts of reports are accepted, which are sent in a computer set in Ukrainian or English, 1-3 pages of A5 format (the text is printed with 1 space, indents on all sides 2.0 cm, font Times New Roman 12p). The thesis formation scheme is provided below:

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| **Structuration of Environmental Studies by using Multi-report Ontological Graph***Tarasenko R.A., Shapovalov V.B., Usenko S.A., Shapovalov Ye.B.**National Center «Junior Academy of Sciences of Ukraine»,* *E - mail: tarasenko@man.gov.ua*Text of Abstract… |

The best reports will be recommended for publication in the Proceedings "Ecological safety and nature management", which is included in the list of scientific publications of Ukraine, as well as in the Conference Proceedings of the Springer publishing house, which will be indexed in the Scopus database.

**Registration**

Registration and uploading of Abstracts available by the links:

<https://easychair.org/my/preprint_new#{fr:abcUBfjwmlXY}>

and

<https://easychair.org/conferences/?conf=22icpcictsd>

**Deadline:** October 28, 2022

Registration by phone is also available: **+380-44-245-88-38**

* Sending of individual invitations to participate in the Conference - October 28, 2022

**Languages of the Conference: Ukrainian, English**

Simultaneous translation won’t be provided

**Participation fee:**

**– 500 UAH** (on-site participation, including printed version of the Conference Proceedings)

**– 250 UAH** (on-line participation, without providing printed version of the Conference Proceedings)

Bank Account for participation fee:

EDRPOU code 26022051

Account number UA268201720313241001302011772

Bank: State Treasury Service of Ukraine in Kyiv

Microfinance organizations (MFO) code: 820172

*Institute of Telecommunications and Global Information Space, NAS, Ukraine*