

Preface

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Abstract. Within the framework of the presented material, the results of the conducted III International Conference on Agriculture, Earth Remote Sensing and Environment (RSE-III-2024).

We are pleased to present a collection of materials III International Conference on Agriculture, Earth Remote Sensing and Environment (RSE-III-2024), which took place on April 22 - 24, 2024 in Tajik Technical University named after academician M.S. Osimi and was dedicated to agriculture, engineering and technology in agriculture, food products from agriculture, ecology, conservation of biological diversity and remote sensing of the Earth.

The conference presented scientific research aimed at solving a range of problems in the field of sustainable development, namely:

- Popularization of fundamental and applied research in the field of sustainable development;
- Development of scientific and practical potential in order to formulate proposals for the introduction of high technologies in agriculture;
- Formation of recommendations aimed at improving information technology, engineering, innovative and digital technologies in agriculture and environmental protection;
- Development of new information technologies for the purposes of Earth sensing, cartography, geodesy, cadastre, land management, ecology and agriculture.

The topics of the conference were as follows:

- Agriculture, field cultivation, forestry and agricultural products;
- Mechanization, mechanical engineering, technology, innovation and digital technologies in agriculture;
- Development of the food industry;
- Geoinformatics and information technology in cartography;
- Ecology, environmental protection and conservation of biological diversity.

At the conference, scientists from research institutes and laboratories, higher educational institutions and agricultural companies presented their scientific works, and the speakers included representatives of Vietnam, Sri Lanka, Kazakhstan, Azerbaijan, Uzbekistan, Kyrgyzstan, Turkmenistan, Tajikistan and Russia. All scientists appreciated the high scientific level of the conference and the opportunity to use new scientific developments in their activities. During the conference, participants discussed problems related to ecology and the preservation of biological diversity for future generations, the

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need to reduce emissions of pollutants into the atmosphere and the use of new technologies for environmentally friendly production. The conference also addressed the problems of agriculture, processing of agricultural products, food production, the introduction of innovative technology in soil cultivation and engineering solutions in agriculture.

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International Program Committee

III International Conference on Agriculture, Earth Remote Sensing and Environment (RSE-III-2024)

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