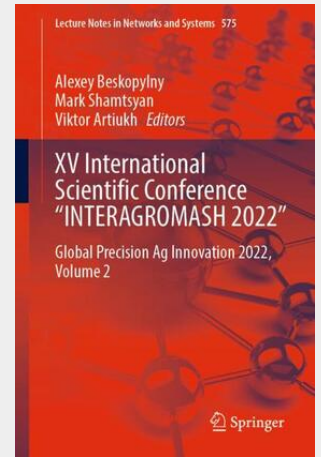


XV International Scientific Conference „INTERAGROMASH 2022“

Global Precision Ag Innovation 2022, Volume 2

The book contains proceedings of the XV International Scientific Conference INTERAGROMASH 2022, Rostov-on-Don, Russia. This conference is dedicated to the innovations in the field of precision agriculture, robotics and machines, as well as agriculture biotechnologies and soil management. It is a collection of original and fundamental research in such areas as follows: unmanned aerial systems, satellite-based applications, proximal and remote sensing of soil and crop, positioning systems, geostatistics, mapping and spatial data analysis, robotics, and automation. Potential and prospects for the use of hydrogen in agriculture, for example, in high-performance tractors with hybrid electric transmission, are disclosed in the research works of scientists from all over the world. It also includes such topics as precision horticulture, precision crop protection, differential harvest, precision livestock farming, controlling environment in animal husbandry, and other topics. One of the important issues raised in the book is to ensure the autonomy of local farms. The topic of the impact of the agro-industrial sector on the environment also received wide coverage. Ways to reduce the burden on the environment are proposed, and the use of alternative fuels and fertilizers is suggested. The research results presented in this book cover the experience and the latest studies on the sustainable functioning of agribusiness in several climatic zones. The tundra and taiga, forest-steppe, the steppe and semi-desert—all this is a unique and incredibly demanded bank of information, the main value of which is the real experience of the functioning of agribusiness in difficult climatic and geographic conditions. These materials are of interest for professionals and practitioners, for researchers, scholars, and producers. They are used in the educational process at specific agricultural universities or during vocational training at enterprises and also become an indispensable helper to farm managers in making the best agronomic decisions.



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