

INFORMATION TECHNOLOGY IN THE BOTANICAL RESOURCES:

RESULTS AND PROSPECTS

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SUMMARY

Analysis of information technologies using in the botanical resources and related sciences showed that introduction in the plant resource study, the GIS (geographic information systems) and the spectral bands (channels) remote sensing data use is promising. The main direction of information technologies application in modern botanical resource science include the creation of a GIS for medicinal and food plants; zoning of an areas for conducting of medicinal plant and berries reserves; detailed interpretation of photo images would reveal indicators of the resources and content of biologically active substances in medicinal plants and food raw materials. The development of remote sensing techniques will provide a rapid species-specific assessment of economically useful medicinal and food plant resources in future.

Key words: GIS, medicinalplants, cartogram, vegetation index, NDVI, *Oxycoccus palustris*, *Rubus chamaemorus*.