

**APPLICATION OF GRID TECHNOLOGIES TO
MULTIRESERVOIR SYSTEMS MANAGEMENT DURING FLOOD**

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Abstract

This article describes the application of a new computing technology – computing grids – to simulation and decision support during the on-line control of retention reservoirs during flood period. The general idea of computing grids, their main characteristics and capabilities are briefly discussed. The practical example, i.e., hierarchical control structure for flood operation in the Vistula river basin system is presented. The main goal of the paper is to show the wide applicability of grids to support research and management of the large-scale environmental systems.

Key words: computing grids, distributed computing, flood control, control systems, system decomposition.