

## Building a national distributed e-infrastructure–PL-grid : scientific and technical achievements

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### Abstrak

The goal of the project is to provide the polish scientific community with an IT platform based on grid computer clusters, enabling e-science research in various fields. The created infrastructure is both compatible and interoperable with existing european and worldwide grid frameworks. The system ensures scalability and enables the integration of additional local clusters, belonging to universities, research institutions and technology platforms. This state-of-the-art survey describes the experience and the scientific results obtained by project partners as well as the outcome of research and development activities carried out within the Polish Infrastructure for Information Science Support in the European Research Space PL-Grid (PL-Grid 2011), held in December 2011 in Krakow, Poland. The 26 papers are organized in topical sections on : eclipse parallel tools platform integrated with QosCosGrid, the migrating desktop, science gateways based on the vine toolkit, the gridspace experiment platform, and the InSilico-Lab environment.