

Data Visualization Design for NSFC Joint Fund Management

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Abstract:

Data visualization converts data in various forms into graphics to improve data representation and visual transmission of information. Visualization analysis, or visual analytics, help users understand data by uncovering information and knowledge in multiple perspectives, which further facilitates management and planning in a quantitative and scientific way. Joint Fund, which is an essential part of NSFC, has been growing drastically in new era. It attracts investments from a full spectrum of resources and helps researchers national wide to investigate unique scientific questions in specific regions and fields. During management of projects and grants supported by Joint Fund, decision makers need effective means to conduct data analysis and statistics. Structural information on multiple granularities, dimensions and regions can be extracted to support decision making.

Based on demand analysis of information management of Joint Fund in new era, this paper reports a new design and implementations of data visualization for typical managing transactions. A data dashboard is designed to meet visualization requirements in general context.



Figure 1. Main View of Joint Funds Dashboard