

IAF EARTH OBSERVATION SYMPOSIUM (B1)  
Earth Observation Applications, Societal Challenges and Economic Benefits (5)

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A DESIGN FOR EARTH OBSERVATION APPLICATION SYSTEM IN AGRICULTURE AND THE  
CORRESPONDING ECONOMIC BENEFIT ANALYSIS

**Abstract**

Earth Observation technology is a frontier technology in modern information technology. In agriculture area, it can analyze agricultural information intelligently, automatically and quantitatively. In the process of rapid development of agricultural production, the use of Earth Observation technology in agricultural scientific decision-making has risen to a new stage, and at the same time, also improved the quality of services for agricultural production.

The paper first performs a comprehensive study about the agriculture in China, then proposes a new agricultural Earth Observation system and evaluates its technical feasibility, finally makes analysis about its economic benefit and potential market increment.