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The real-time acquisition and intelligent processing has emerged as an important trend of future Earth observation technologies. The international symposia on Future Intelligent Earth Observing Satellites (FIEOS) were previously hosted in Denver, Colorado, USA in 2002 and Istanbul, Turkey in 2004. The new technologies for future Earth observation, such as onboard processing systems, sensor integration, data processing and communication, and applications of satellite data, as presented in the previous symposia, are highlighted widely now. The 3rd International Symposium of FIEOS (FIEOS 2006), held during 24-26 May, 2006 in Beijing, China, provided a good exchange platform for experts from all over the world to share their experience in the field of Earth observation technologies and applications.

Plenary Session　Semantics-Enabled Knowledge Management for Global Earth Observation System of Systems　From Global Earth Observation System of Systems to a Future Intelligent Earth Observing Satellite System　From Data to Information,and from Information to Knowledge: An Overview of China State Major Basic Research Project Session 1: Architecture,Systems　An Objectively Optimized Earth Observing System　Geo-processing with Icosahedral Snyder Equal Area Aperture 4 Hexagon Discrete Global Grid System　The Quick Renewal of 1:250,000 Map Database Using Space Remote Sensing Images　Development of a Marine Ecosystem Health Assessment System Based on ArcObjects　GIS Analysis of Rip Current and Spring Layer　The Inquiry System of Water Quality Monitoring Model by Remote Sensing Technique Based on. NET Technology　An On-board Mission Planning Model for Autonomous Spacecraft　The Architecture of Cooperative Application System for a Future Earth Observing Satellite Network　Use Materialized Views of a Database on WebGI　Design of the Space System Simulation and Analysis Software……Session 2: SensorSession 3: Data Processing(1)Session 4: Data Processing(2)Session 5: Vegetation Remote SensiugSession 6: Landuse/Landcover ApplicationsSession 7: SAR and InSARSession 8: Ocean Remote Sensing

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