

# Cyberinfrastructure for Service-oriented Geospatial Science and Technology

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This paper envisions the future of GIS as a widely-connected, interoperable and semantically supported Geospatial Service Web (GSW), a fundamental framework of geospatial information technology in the future. Data, information and knowledge services are essential bricks, but the GSW features geospatial processing services and their combinations that collaborate to simulate, deduce and predict geographic phenomena, processes and results. The pioneering thoughts about the rationale, conception, framework, technologies and standards for building the GSW is introduced. A prototype system is developed to demonstrate and illustrate the initial shape of GSW.

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