

عنوان مقاله:

Investigating the role of spatial data infrastructure (SDI) and the spatial sensor web in improving urban management performance

محل انتشار:

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خلاصه مقاله:

This comprehensive paper explores the transformative role of Spatial Data Infrastructure (SDI) and the Spatial Sensor Web (SSW) in urban management. It presents an in-depth literature review on urban management and the utilization of SDI and SSW, highlighting current research gaps. The theoretical frameworks of SDI and SSW are subsequently elaborated, discussing their concepts, operations, and roles in urban management, as well as their interrelation. The paper then reviews real-world applications of SDI and SSW in urban management through various case studies, critically assessing their impact and effectiveness. This is followed by a detailed discussion on the challenges and opportunities presented by these technologies. Future potential developments and their impacts are explored, and the paper concludes with recommendations for further research in this promising field. The paper underscores the substantial potential SDI and SSW offer for efficient, sustainable, and participatory urban management while acknowledging the need for ongoing research and policy intervention.

کلمات کلیدی:

Spatial Data Infrastructure (SDI), Spatial Sensor Web (SSW), Urban Management, Smart Cities, Urban Planning

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