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IT in Smart Cities

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Guest Editors' Introduction: IT in Smart Cities

*Robert R. Harmon, Bin Guo, and
Maria R. Lee*



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Intelligent Marketing in Smart Cities Crowdsourced Data for Geo-Conquesting

Bo-Wei Chen and Wen Ji

The authors' approach for intelligent marketing in smart cities uses large-scale crowdsourcing based on mobile user behavior for market planning. The approach tracks user trails via mobile devices to help marketers analyze crowd flows for geo-conquesting.

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The Smart Citizen Factor in Trustworthy Smart City Crowdsensing

*Maryam Pouryazdan and
Burak Kantarci*

This article surveys the state of the art in reputation-based crowdsensing in smart cities. The authors also present a vote-based, reputation-aware user-recruitment approach that unveils the impact of collaborative trustworthiness assessment using anchor smart citizens.

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A Social-Network- Optimized Taxi- Sharing Service

*Chaofeng Zhang, Mianxiong
Dong, Kaoru Ota, and Minyi Guo*

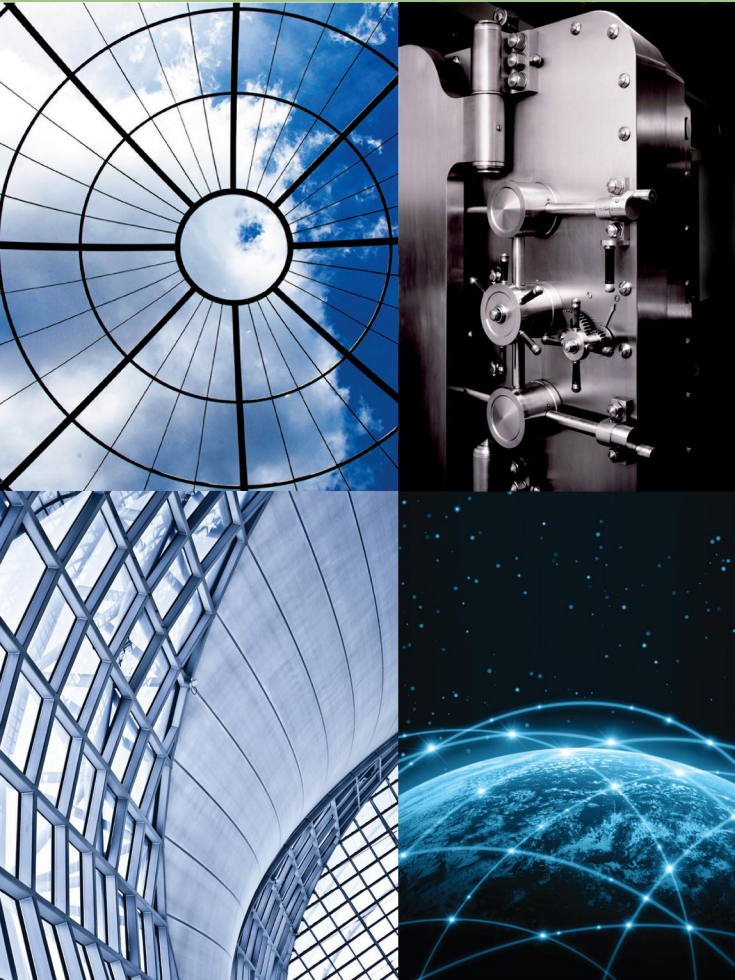
Social-network-based taxi sharing is a potential smart city service with social and economic benefits. The authors designed a framework for planning social-network-based taxi travel and successfully applied it in a practical scenario.

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Planning and Implementing a Smart City in Taiwan

*Chiung-I Chang and
Chih-Cheng Lo*

Because of smart cities' diverse demands, a powerful and effective platform is necessary before they can be realized. This article describes a cloud virtualization resource management system called CHT Virtuoso that will support smart cities in Taiwan.



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Tree MIS: Caring for Ecological Assets in Smart Cities

Wai-Ming To, Linda S.L. Lai, and Andy W.L. Chung

This article describes a tree management information system that intelligently cultivates trees, which comprise the ecological assets of a smart city. This system ensures that people and trees can coexist harmoniously in an urban environment.

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Electronic Commerce Meets the Semantic Web

Jelena Jovanovic and Ebrahim Bagheri

The intersection of Semantic Web technologies and business-to-consumer (B2C) e-commerce offers benefits for both online retailers and customers. The authors' framework highlights why and how the adoption of Semantic Web technologies can enhance B2C applications and platforms.

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