Minitrack Introduction: Decision Support for Smart Cities

Wei XU
School of Information
Renmin University of China
weixu@ruc.edu.cn

Jian MA
Department of Information Systems
City University of Hong Kong
isjian@cityu.edu.hk

Jianshan SUN
School of Management
Hefei University of Technology
sunjs9413@gmail.com

Abstract

This minitrack received 4 research papers and accepted 2 research papers. It covers some hot research topics in smart cities such as smart commerce and smart research by using intelligent information technologies and decision support methods.

1. Introduction

Decision Support for Smart Cities Minitrack focuses on the application of artificial intelligence and big data analytics for smart cities. With massive applications of Internet of things (IoT), social media, and social network platforms, large amount of heterogeneous data are gathered and processed with advanced analytic tools to support the development of smart cities. Furthermore, decision support tools and various data mining techniques can be employed to speed up the whole process. To bring technical, behavioral, and managerial perspectives together, this minitrack provides new insights into decision support for smart cites.

2. An Overview of Abstracts

The forthcoming minitrack papers emphasize providing decision support by integrating theories, sensor data processing techniques, and big data analytics. We summarized these leading studies in decision support for smart city and digital services as follows.

Live streaming is changing the paradigm of people's entertainment and consumption. It has been adopted by many small individual sellers to improve their market performance, leading to the emergence of live streaming commerce. Zhang et al. attempt to develop a theoretical model to investigate how social presence affects consumers' urge to buy impulsively through the mediating mechanism of cognitive state and affective state, and it is expected to advance knowledge on consumers' impulse buying in live streaming commerce.

Academic patent trading is one of the important ways for university technology transfer. Chen et al. propose a novel academic patent recommendation approach with a hybrid strategy, combining citation-based relevance, connectivity, and trustworthiness. An offline experiment is conducted to evaluate the performance of the proposed recommendation approach, and the results show that the proposed method performs better than the baseline methods in both accuracy and ranking.

3. Conclusions

The forthcoming papers provide perspectives in terms of main issues in smart cities, and the contributions to these areas are appreciated, and they bring new perspectives in both theory and technology.

URI: https://hdl.handle.net/10125/79501
978-0-9981331-5-7