Special Issue on Urban Computing and Smart Cities Summary

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1 Summary

The author in Introduction to the Special Issue on Urban Computing and Smart Cities presents and summaries four articles that present methods for utilizing the vast amount of urban data being generated from the rapidly growing network infrastructure. The author states that this data can help understand and solve various challenges facing urban environments such as facility planning and air pollution. By utilizing user mobility data for example we can improve existing algorithms that could mitigate problems that arise from passenger arrivals and waiting times in the urban environment[2]. In addition to that, another way we could utilize this data is to combine user mobility data and geographical data to improve trajectories for transportation[3]. I found this interesting because learning how to deal with new data will help solve today and even tomorrow's problems. More importantly, it opens lucrative opportunities that can be utilized to not only improve life in urban areas but exploited monetarily.

2 Abstract

No abstract available.

References

[1] Y. Li, J. Bao, Z.-L. Zhang, and S. Benjaafar. 2021.
    Introduction to the Special Issue on Urban Computing and Smart Cities.
    ACM/IMS Trans. Data Sci. 2, 1, Article 2e (January 2021), 2 pages.
    https://doi.org/10.1145/3441679

[2] Renhe Jiang, Xuan Song, Zipei Fan, Tianqi Xia, Zhaonan Wang, Quanjun Chen, Zekun Cai, and Ryosuke Shibasaki. 2020. Transfer Urban Human Mobility via POI Embedding over Multiple Cities. ACM/IMS Trans. Data Sci. 2, 1, Article 4 (December 2020), 26 pages.
    https://doi.org/10.1145/3416914

[3] Tatiana Babicheva, Matej Cebecauer, Dominique Barth, Wilco Burghout, and Leïla Kloul. 2020. Empty Vehicle Redistribution with Time Windows in Autonomous Taxi Systems. ACM/IMS Trans. Data Sci. 2, 1, Article 5