

Realizing the Digital Twin Transition for Smart Cities

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  author     = {Jonathan F{"u"}rst and  
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              Benjamin Hebgen},  
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improve, among others, living quality, carbon footprint and generate new  
business opportunities across different organizations. However, as cities  
consist of many separate entities that are in close and frequent  
interaction with each other, it is not possible to simply apply digital  
twin concepts from the engineering and manufacturing domains in a silo-ed  
fashion for each entity. In this paper, we distill the requirements and  
challenges to develop digital twins for smart cities based on a typical  
smart city use case. We follow with a first systematic approach to address  
them in a data-driven fashion to realize the digital twin transition for  
cities.}  
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