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Transportation Cyber-Physical Systems

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Transportation Cyber-Physical Systems provides current and future researchers, designers and practitioners with the latest thinking on the emerging interdisciplinary field of Transportation Cyber Physical Systems (TCPS). As cars, traffic lighting and the built environment are becoming linked and augmented with embedded intelligence, it is important to comprehend how clever ecosystems that encompass equipment, software, and physical parts can help feeling the changing state of real life. Bridges the gap between the transportation, CPS and civil engineering communitiesIncludes numerous types of useful applications that display how diverse technology and topics are integrated in practiceExamines timely, state-of-the-artwork topics, such as big data analytics, personal privacy, cybersecurity and intelligent citiesShows how TCPS can be developed and deployed, along with its associated issues Includes pedagogical helps, such as Illustrations of program scenarios, architecture information, tables describing available strategies and tools, chapter objectives, and a glossaryContains international contributions from academia, federal government and industry The reserve integrates ideas from Transportation and CPS experts and visionaries, consolidating the most recent thinking on the topic. The book targets enhancing performance, reducing environmental stress, and meeting societal demands over the continually growing air, water and land transport wants of both people and products. Users will find a very important resource that helps accelerate the research and development of transport and mobility CPS-driven innovation for the security, reliability and stability of society at-large.



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