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In this white paper, state-of-the practice intelligent transportation system (ITS) programs that are environmentally beneficial are highlighted spanning the three main areas of ITS, including, Vehicle Systems, Traffic Management Systems, and Traveler Information Systems.

Intelligent Transportation Systems and Sustainable ...

The huge leaps in technological innovation we've made have thrown up more and more data about the way we live and work and increasingly this data indicates, in order for our advances to continue, the need for a shift towards more sustainable ways. Intelligent transport systems are not a new solution, however, their role in creating a secure and sustainable future for transportation will be integral.

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The adaptive traffic signal control system is a key component of intelligent transportation systems and has a primary role in effectively reducing traffic congestion. The high costs of implementation and maintenance limit the applicability of the adaptive traffic signal control system, especially in developing countries.

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Intelligent transportation is an important component of any smart city. Sound, safe and connected transportation systems should be considered a key pillar for all smart cities. In fact, all smart city initiatives should start with enhancing the intelligence of the cities' transportation systems.

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Intelligent Transportation Systems for Sustainable Development

Intelligent transportation systems play an important role in the sustainable development of the world economy. In the era of autonomous driving, intelligent transportation systems will see disruptive transformation and enable smart mobility. However, their success heavily depends on the construction of dynamic maps, which further relies on precision positioning of both moving and static objects, on the road (2-D positioning) or in the sky (3-D positioning).

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Black defines sustainable transportation as "one that provides transport and mobility with renewable fuels while minimizing emissions detrimental to the local and global environment and preventing needless fatalities, injuries, and congestion" (p. 264). There is no question that we are far from achieving this goal.

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Connected vehicles and fully automated driving systems are the main objectives of the future transportation system. A safe interactive system that interacts with people and things is essential to achieve these objectives. In this context, a crowd intelligence system plays a key role in interactive system development.

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