Topical Collection

Emerging Technologies and Sustainable Road Safety

Message from the Collection Editor

As one of the fastest growing sectors in the socioeconomic context, transportation is expected to experience an accelerated expansion in the next few decades due to the ever-increasing population, rapid motorization, and rising incomes. However, rapid growth of traffic has resulted in continuously increasing safety problems. These safety problems arise when one or more elements of the transportation system fail during the complex interaction among driver, vehicle, and environment. Making a road sustainably less hazardous requires a systems approach, understanding the system as a whole and the interaction between its elements, and identifying where there is potential for intervention. In particular, it requires the recognition that the human body is highly vulnerable to injury and that humans make mistakes. This is in line with the principles of sustainable road safety that require the environment and vehicle to be designed in a way that serious crashes would be eliminated and the severity of crashes would be mitigated. This becomes possible by utilization of new technologies so as to minimize the system's dependence on humans.

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Editor-in-Chief

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