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Assessing the Ability to Act without Moving - The Movirtuality Index

Emergent Research Forum papers

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Abstract
Intelligent Transportation Systems (ITS) are becoming more relevant in finding solutions to the problems of mobility. However, better transportation systems attract more trips, congestion and pollution. One reason for this paradox is that most of the intervention of information systems in transportation systems aims to improve the current means of transportation by making them faster, safer, bigger and more affordable. This approach has neglected the direct way to solve the problem of mobility: reducing or eliminating the need of mobilization. This paper addresses this alternative solution by revealing the role of information and communication technologies (ICT) as facilitators of mobility in the virtual world in contrast to mobility in the physical world. It introduces the concept of Movirtuality, proposes and index for its measurement and a model of its associated factors.

Keywords
Intelligent Transportation Systems, Virtual Mobility, Movirtuality, Transportation.