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## On Human Mobility Prediction and Opportunistic Networks Routing

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Opportunistic networks can be defined as a one type of challenged networks that should implement integration of diverse computation resources. These networks are based on spontaneous connectivity between nodes with a goal to enable communication in disconnected environments, where an end-to-end path between the sender and the receiver is often absent.

In such conditions routing becomes a rather interesting and difficult task since networks are based on temporary random connections between devices. Nodes of mobile opportunistic networks are people carrying phones or other gadgets capable to make connections between each other. Thus prediction of human mobility can become a strong basis for efficient routing protocols implementation.

It is reviewed what applications demand on our ability to foresee mobility of individuals, what approaches are currently being used to build human mobility models, and how some of existing opportunistic routing algorithms are designed with application of mobility models.