



# **Intermittently Connected Mobile Ad Hoc Networks: from Routing to Content Distribution (SpringerBriefs in Computer Science)**

*Abbas Jamalipour, Yaozhou Ma*

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In the last few years, there has been extensive research activity in the emerging area of Intermittently Connected Mobile Ad Hoc Networks (I.C.M.A.N.s). By considering the nature of intermittent connectivity in most real world mobile environments without any restrictions placed on users' behavior, I.C.M.A.N.s are eventually formed without any assumption with regard to the existence of a end-to-end path between two nodes wishing to communicate. It is different from the conventional Mobile Ad Hoc Networks (M.A.N.E.T.s), which have been implicitly viewed as a connected graph with established complete paths between every pair of nodes. For the conventional M.A.N.E.T.s, mobility of nodes is considered as a challenge and needs to be handled properly to enable seamless communication between nodes. However, to overcome intermittent connectivity in the I.C.M.A.N.s context, mobility is recognized as a critical component for data communications between the nodes that may never be part of the same connected portion of the network. This comes at the cost of addition considerable delay in data forwarding, since data are often stored and carried by the intermediate nodes waiting for the mobility to generate the next forwarding opportunity that can probably bring it close to the destination. Such incurred large delays primarily limit I.C.M.A.N.s to the applications, which must tolerate delays beyond traditional forwarding delays. I.C.M.A.N.s belong to the family of delay tolerant networks (D.T.N.s). However, the unique characteristics (e.g., self-organizing, random mobility and ad hoc based connection) derived from M.A.N.E.T.s distinguish I.C.M.A.N.s from other typical D.T.N.s such as interplanetary network (I.P.N.) with infrastructure-based architecture. By allowing mobile nodes to connect and disconnect based on their behaviors and wills, I.C.M.A.N.s enable a number of novel applications to become possible in the field of M.A.N.E.T

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