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### Impact of Heuristic Techniques in Reactive Multicast Routing

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Abstract - Literature review revealed that a major aspect of wireless networks is that the nodes move randomly, which poses the routing protocols in Mobile Ad Hoc Networks (MANETs) that respond quickly to the frequent network topological changes in order to guarantee successful data packet delivery with minimal latency time and overhead. Although there are several multicast routing protocols available for MMANETs, they perform well under specific scenarios only, so we attempt to design new Genetic Algorithm (GA) and Particle Swarm Optimization (PSO) based multicast routing models which improve the performance features effectively and obtain higher accuracy compared with the existing multicast routing protocols. On Demand Multicast Routing Protocol (ODMRP) and Multicast Ad-hoc On demand Distance Vector Protocol (MAODV).