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RESEARCH ARTICLE



An Approach for Minimization of Power Consumption in Ad-Hoc Network

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Abstract— The mobile phones that have rich media and wireless networking capabilities has ushered in a new paradigm in mobile computing with new emerging social behaviours. New enabling technologies now allow users to search, locate, download, and share dynamically created content with friends and family from their mobile devices. With ad hoc networking capabilities in mobile devices, we are beginning to see the above trend shift from wide-area communities of users to dense local area social situations such a shift presents opportunities to design proximity aware systems that deliver novel social experiences. For example, fans watching a football game can automatically share pictures taken on their mobile phones with each other, while commenting/rating pictures being taken around them. Designing systems for ad hoc environments presents several interesting research challenges, including the difficult problem of providing scalable, energy efficient presence and content updates. To keep information fresh in such environments, the distribution mechanisms have to focus on frequent, small metadata updates rather than large infrequent payloads, which could also be a cause of significant battery drain from a mobile device.

Keywords— *Networks Security (NS); Computer Science(CS); Ad-hoc networks; Energy efficiency; Power control; Synchronization*

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