INTEROPERABILITY AMONG HETEROGENEOUS MOBILE MULTI-DATABASES
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ABSTRACT
Advances in technology allow mobile nodes to own Databases and perform Transaction processing in a Mobile Ad-hoc Network (MANET). The implicit heterogeneity and autonomy of individual database permits us to view the underlying database system as a multi-database system. Our problem formulation is based on both mobile user and mobile Data Servers. In this context we propose interoperability among heterogeneous, mobile, multi-databases and achieve it with an integration of underlying network architecture and summary schema structure. Over semantically inter-related and possibly replicated databases; we consider transaction management by using semantic serializability concept over summary schema model. Further, we analyze the effect of mobility on summary schema structure and on transaction management.