



RMPJK-RSA CRYPTOSYSTEM

One of the essential security services needed to safeguard online transactions is flaxen exchange. In e-Medical transaction protocols two parties can exchange their signatures in a fair manner, so that either each party gain the other's signature or no one obtain anything useful. This Thesis examines security solutions for achieving e-Medical transactions among Patient/Doctor/PMHIP/Bank. It proposes new security protocols based on the "Rebalanced Multi-Prime Jordan-Totient-RSA Cryptosystem and Signature Scheme ". This thesis concentrates on security solutions for achieving Threshold e-Medical transactions in e-Medical Health Insurance System applications, Threshold contract signing and Threshold certified delivery of valuable data. A Threshold reasonable contract signing protocol allows two potentially mistrusted parities to exchange their commitments (i.e., digital signatures) to an agreed contract over the Internet in a fair way, so that either each of them obtains the other's signature, or neither party does.

E.MADHUSUDHANA REDDY

# DEVELOPMENT OF SECURE PROTOCOLS FOR MHS USING RMPJK-RSA CRYPTOSYSTEM

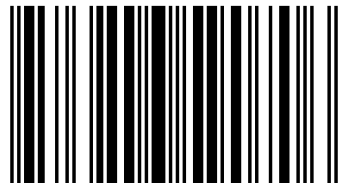
DEVELOPMENT OF SECURE EXCHANGE PROTOCOLS FOR MEDICAL HEALTH INSURANCE SYSTEM USING RMPJK-RSA CRYPTOSYSTEM



E.MADHUSUDHANA REDDY

Dr.E.Madhusudhana Reddy received Ph.D(CS),M.C.A from S.V.University, Tirupati,M.Tech(IT) from Punjabi University,Patiala.His research interests are Cryptography,Network Security and Data Mining. He has published 27 research papers in National/International Journals & Conferences.

E.MADHUSUDHANA REDDY



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