Mutable Trust Scheme Explorations over Infrastructure Based Distributed Heterogeneous Wireless Sensor Networks

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Abstract: - Accuracy is the prime concern for any real time distributed system applications varies from simple home applications to complex military surveillance systems. The concept of trust and reputation was the dream for the conventional distributed applications some years ago. This paper addressed the past research effort in the direction of infrastructure based routing protocol. Moreover, the focus is on the evaluations of accuracy over the trust, hops and non trust based factors. We designed and implemented a model for the comprehensive investigations over trust issue. Infrastructure has been given greater impotence in the deployed model. The outcomes obtained from these investigations can help the real time distribution applications direly. The proposed scenario has been validated through simulation means.

BIOGRAPHY



Vinod Kumar Verma born in Kalka (Haryana), India. **Dr. Verma** is an Assistant Professor in the Department of Computer Science and Engineering at Sant Longowal Institute of Engineering and Technology, Longowal, Punjab, India. He earned his BTech in Computer Engineering from Kurukshetra University and his MS in Software Systems from BITS, Pilani, in 2005 and 2008 respectively. Dr Verma earned his PhD in Computer Science and Engineering from SLIET, Longowal. Dr Verma has published many research papers in the International Journals of IEEE, Springer, Elsevier, Taylor and Francis. Dr. Verma is serving as Lead Guest Editor for a Special issue in International Journal of Distributed Sensor Networks (JCR@Thomson Reuters Journal), SAGE Journals Publishing, United Kingdom (U.K). Dr. Verma is also serving as Editorial Board Member/Reviewer for many International Journals like IEEE Sensor Journal, USA, IEEE Transactions on Neural Networks and Learning Systems, USA, The Journal of Systemics, Cybernetics, and Informatics (JSCI)", IIIS, Florida, USA, International Journal of Communication Systems. Wiley Publications, International Journal of Distributed Sensor Networks (IJDSN), SAGE Publishing, UK etc**.** He served as a Session Chair and Invited Speaker at ACMOS ’16, 2016, Venice, Italy, and as a Session Co-Chair at IMETI-CITSA 2014, in Orlando, USA. Dr Verma has served many International conferences in different capacities at UK, USA, JAPAN, ITALY. He served as Organizing Committee member in International for NETs 2016, Japan, as a Program Committee Member at CITSA 2015 and 2016, USA, and as an Organizing Committee Member for International conference of World Scientific and Engineering Academy and Society (WSEAS), *TELE-INFO '16, Italy*. In 2014, Dr Verma received the Session's Best Paper Award at *IMETI-CITSA-2014*, USA. Other achievements include the Best Paper Award at NCCN-11, Longowal, India. His current research interests include wireless sensor networks, internet of things, big data, cloud computing, trust and reputation systems, simulation, distributed computing, cryptography and software systems.