Studies in Big Data

Volume 47

Series editor
Janusz Kacprzyk, Polish Academy of Sciences, Warsaw, Poland
e-mail: kacprzyk@ibspan.waw.pl
The series “Studies in Big Data” (SBD) publishes new developments and advances in the various areas of Big Data - quickly and with a high quality. The intent is to cover the theory, research, development, and applications of Big Data, as embedded in the fields of engineering, computer science, physics, economics and life sciences. The books of the series refer to the analysis and understanding of large, complex, and/or distributed data sets generated from recent digital sources coming from sensors or other physical instruments as well as simulations, crowd sourcing, social networks or other internet transactions, such as emails or video click streams and others. The series contains monographs, lecture notes and edited volumes in Big Data spanning the areas of computational intelligence including neural networks, evolutionary computation, soft computing, fuzzy systems, as well as artificial intelligence, data mining, modern statistics and operations research, as well as self-organizing systems. Of particular value to both the contributors and the readership are the short publication timeframe and the world-wide distribution, which enable both wide and rapid dissemination of research output.

More information about this series at http://www.springer.com/series/11970
Ubiquitous Computing and Computing Security of IoT
Contents

Security Protocols for IoT ................................................. 1
J. Cynthia, H. Parveen Sultana, M. N. Saroja and J. Senthil

Security of Big Data in Internet of Things ....................... 29
Rakesh Bandarupalli and H. Parveen Sultana

IoT for Ubiquitous Learning Applications: Current Trends and
Future Prospects .......................................................... 53
Salsabeel Shapsough and Imran A. Zualkerman

Trust Management Approaches in Mobile Adhoc Networks .... 69
R. Vijayan and N. Jeyanthi

Security in Ubiquitous Computing Environment: Vulnerabilities,
Attacks and Defenses .................................................. 101
C. Shoba Bindu and C. Sasikala