
Editorial

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Biographical notes: Sugam Sharma is a Data Scientist and currently working as a System Analyst III for Center for survey Statistics and Methodology, Iowa State University. He obtained his PhD in Computer Science from the Iowa State University, USA in 2013. His research interests include big data, cloud computing, multidimensional databases, GIS technology, sensor network, health informatics and smart home technology. Previously, he also has served as a Software Consultant for NAVTEQ Inc., and Java Developer at the Ames Laboratory of US Department of Energy, USA. He also holds an MS in Computer Science from the Jackson State University, Mississippi, USA and BE in Computer Science from prestigious Roorkee, India.

Over the past ten years, the accommodation of information technology in healthcare system has transformed the traditional healthcare into a new paradigm, called health informatics. The inception of informatics has offered very robust and hi-tech solutions for data and information collection, storage, and healthcare management and delivery to the end user. The informatics enabled healthcare has emerged as a potential system that promises to deliver the most advanced treatment to the patient with higher probability of success, faster knowledge and information sharing, etc. The technological advancements in data management, recently in the form of big data and cloud computing, and in healthcare system have resulted into the storage of enormous amount of clinical data in various formats. This swift advent has turned the traditional healthcare into smart healthcare system that promises to deliver high-end diagnostic tools, superior treatment and quality of life for human health with firm commitment of significant cost reduction simultaneously, and as a whole this is being dubbed as smart health, one health or e-health. This special issue intends to address the current research challenges in health informatics and seeks articles discussing the use of informatics in healthcare from various perspectives such as design and development of new tools and techniques, algorithms, applications, healthcare big data and information management and sharing and so forth.

The guest editor conveys his thanks to all the authors, who contributed to this special issue with high quality research work. Also, special thank goes to those reviewers, who, out of their very busy schedule, took time to help provide the critical evaluation of the assigned papers in a short time. In the end, I firmly hope that the audience will find this special issue a very interesting read and useful.