

BIGDATA4HEALTH 2018: The Third International Workshop on Big Data Analytics for Smart and Connected Health

Washington D.C., USA, September 26, 2018

<http://www.bigdata4health.org/>

Call for Papers

The enormous use of internet in smart and connected healthcare continuously churn out very large amounts of structured and unstructured data due to which healthcare practitioners are increasingly facing difficulties in managing and capitalizing them to their advantage. Big data analytics is the process of examining these large data sets to uncover hidden patterns, unknown correlations, market trends, customer preferences and other useful business information. The analytical findings can lead to more effective marketing, new revenue opportunities, better customer service, improved operational efficiency, competitive advantages over rival organizations and other business benefits.

BIGDATA4HEALTH, organized in conjunction with IEEE CHASE 2018, focuses on bringing together researchers and practitioners in mobile computing, biomedical and machine learning to showcase the progress and applications of analyzing and extracting knowledge from large-scale datasets for smart and connected healthcare. We invite researchers and practitioners to submit theoretical and experimental results on topics of interest included but not limited to:

- Store and retrieve ever growing dataset from smart and mobile devices
- Feature dimensionality reduction for high dimensional biomedical data
- New approach to tackle large-scale bioinformatics classification problems
- Energy efficient data analytics scheme for high dimensional data
- Cloud computing and mobile database management for wearable sensor based big data
- Machine learning frameworks designed for biomedical big data mining
- Predictive models gaining valuable knowledge from wearable sensor based big data
- Machine learning, with emphasis on deep learning, for health and biomedical applications
- Novel applications and case studies for healthcare based on smart and mobile devices
- Biomedical big data privacy preservation in IoT environment

Paper Submission & Publication

Submitted manuscripts may not exceed **6 (or 7 with \$100 extra fee)** single spaced double-column pages using 10-point size font on 8.5x11 inch pages, including figures, tables, and references. Only electronic submission in PDF will be accepted. Submitted papers must be written in English, must render without error using standard PDF viewing tools, and must follow the IEEE Manuscript Templates for Conference Proceedings. The online submission link of BIGDATA4HEALTH is:

http://www.ieee.org/conferences_events/conferences/publishing/templates.html

<https://edas.info/newPaper.php?c=24760>

Submitted papers must be neither previously published nor under review by other sources. Note that at least one of the authors of each paper accepted for presentation in BIGDATA4HEALTH must be registered. **BIGDATA4HEALTH 2018 will establish a best paper award this year.** All papers presented at the Workshop will be published in *Smart Health Journal* (Elsevier) as a special issue.

General co-Chairs

Houbing Song, Embry Riddle
Aeronautical Univ., USA
Roozbeh Jafari, Texas A&M Univ., USA

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Dechang Chen, Uniformed Services Univ.
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Important Dates

Paper Submission: June 8, 2018

Notification of Acceptance: July 13, 2018

Final Paper: July 23, 2018