Journal of Healthcare Informatics Research

~Special Issue Call for Papers~

“Computational Health Science: Data Creation, Analysis and Interpretation”

GUEST EDITORS:
Sherry Emery, NORC at University of Chicago, emery-sherry@norc.org
Christophe Giraud-Carrier, Brigham Young University, cgc@cs.byu.edu
Lei Liu, HP Labs, lei.liu2@hp.com
Steven Simske, HP Labs, steven.simske@hp.com

Journal of Healthcare Informatics Research invites papers for a special issue on Computational Health Science: Data Creation, Analysis and Interpretation. Computational Health Science (CHS) integrates the analytical strengths and skills of health scientists and computer scientists, supported by complementary expertise from other researchers and practitioners as applicable (e.g., psychologists, sociologists). The goal of this Special Issue is to explore the novel opportunities offered by social media and sensor data to inform future practice directed at changing health behavior through improved surveillance, communication, promotion and targeted intervention.

This special issue is to provide a forum for researchers from both academia and industry to share their latest achievements Computational Health Science: Data Creation, Analysis and Interpretation. Papers addressing one or more of the topics below are of particular interest:

- Mining social media data for health surveillance and communication
- Using social media for health promotion and awareness
- Using social media for targeted health intervention
- Correlating health-related social media data with traditional data sources (e.g., CDC, national surveys)
- Predictive analytics or predictive hybrid-analytic (e.g., using one or more measurements either health or otherwise, such as age, gender, location, occupation, etc.)
- Addressing issues and opportunities associated with large volumes of observational health data (e.g., validation)
- Understanding ethical issues associated with mining health-related social media data
- Applications of biosensors to solve healthcare-related challenges
- New data mining and machine learning algorithms to analyze biosensor data for healthcare-related topics
- Systems that utilize biosensor data to understand individuals for better healthcare purposes (e.g., supporting precision medicine)
- Services that provide a better healthcare solution by jointly considering biosensor data from multiple sources
- Multi-sensor behavioral identification and multi-source predictive healthcare
- Leveraging the rich structure of social media to understand phenomena such as health information dissemination, disease spread, and health-related norm creation/reinforcement (e.g., using social network analysis, agent-based modeling, etc.)

IMPORTANT DATES:
- Paper submission deadline: 15 June 2017
- First Decision to Authors: 15 August 2017
- Final manuscript due: 15 October 2017

PAPER SUBMISSION:
- Authors are encouraged to submit high-quality, original work that has neither appeared in, nor is under consideration by, other journals.
- All papers will be reviewed following standard reviewing procedures for the Journal.
- Papers must be prepared in accordance with the Journal guidelines: http://www.springer.com/41666.

Christopher C. Yang, Drexel University, Editor-in-Chief
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