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Natural Language Processing in Healthcare and Medical Informatics

Guest Editor:

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Deadline for manuscript submissions:
closed (30 June 2020)

Message from the Guest Editor

Dear Colleagues,

Natural language processing can help to revolutionize information management and retrieval in healthcare settings. In this Special Issue, we focus on relevant theoretical frameworks and empirical research findings in NLP for healthcare and medical informatics.

Since NLP tools reorganize AI techniques to focus on linguistic–conceptual relationships, rather than primarily textual analysis, knowledge integration is crucial, where it can help to translate synonymous terms using data and text mining to complete or correct existing knowledge structures. Out of many techniques and/or tools, we focus on deep learning and high-end machine learning tools for the following tasks:

- Clinical NLP with deep learning;
- Clinical NLP for health outcomes research;
- NLP to analyze/classify health literacy;
- Clinical text mining/classification;
- NLP for Clinical Notes;
- NLP on electronic health records;
- NLP in healthcare with speech recognition;
- NLP-driven computer assisted coding;
- NLP for clinical trial matching;
- NLP in clinical decision support;
- NLP in healthcare with imaging techniques;
- NLP and data visualization in healthcare.

Dr. KC Santosh
Guest Editor

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Message from the Editor-in-Chief

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