Journal of Medical Imaging and Health Informatics (JMIHI): 2018’s SCI-IF 0.499

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Call for Papers (Special issue) on:

Recent Advances in AI and Big data-based Epidemic Prevention to Public Healthcare

Epidemic prevention is considered as one of the most important to public healthcare. We can benefit from the application of AI and Big data, which has revolutionary changed our public healthcare. For example, infrared temperature equipment with IoT improves the traditional method to measure body temperature. This innovation also protects doctors and nurses from contact infections. The AI Empowered medical image processing has been applied in many clinical tasks successfully, such as diabetic retinopathy, and skin cancer. Moreover, the big data technology can be used for data mining and analysis from mobile device data, such as population migration and virus contacts discovery. However, for epidemic prevention, such as urgent public health problems or virus outbreak, existing solutions may be unstable or fail for these tasks. It requires novel computing techniques with effective, robust, practical and trustworthy.

This Special Section aims to invite original research papers that AI and Big data-based Epidemic Prevention. Submitted papers should clarify the substantively different from work that has already been published, or accepted for publication, or submitted in parallel to other conferences or journals.

The topics of interest include, but are not limited to:

- IoT based urgent public health support system
- VR/AR computer-aided diagnosis system
- AI models for learning small or imbalanced clinical data
- Novel learning paradigms for epidemic prevention
- Big data-based heterogeneous clinical data mining
- AI-based medical image processing for epidemic prevention
- New measurements and computing methods for early diagnosis
- Patient behavior monitoring based on IoT and sensor

Schedule:
- deadline for submissions: Oct 15, 2020
- first decision (accept/reject/revise, tentative): Jan 27, 2021
- submission of revised papers: Feb 15, 2021
- notification of final decision (tentative): March 31, 2021
- journal publication (tentative): May 2021
Guest Editors
Prof. Honghao Gao, Shanghai University, China
Prof. Ng Yin Kwee, Eddie, Nanyang Technological University, Singapore

Submission Guideline:

All manuscripts must be submitted via mstracker.com and authors are request to write in their cover letter that their submission is for this special issue and the name of the guest editor, so that the guest editor can be notified separately.
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