Call for Papers (Special issue) on:

**Medical Imaging and Health Informatics for COVID-19**

The 2019–20 coronavirus pandemic is an ongoing pandemic of coronavirus disease 2019 (COVID-19) caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). It was declared to be a Public Health Emergency of International Concern and recognized as a pandemic by the World Health Organization. The outbreak of COVID-19 has rapidly spread to most countries in the world. As of 16 April 2020, there have been more than 2.1 million confirmed cases and 140,371 deaths around the world.

Health Informatics (HI) and Artificial intelligence (AI) plays an important role in fighting COVID-19. For example, techniques can help develop vaccine & targeted drugs for COVID-19. In epidemiology, HI & AI can provide tracking and prediction of the spread of infected territories and areas. The visualization technology provides a global overview for policymakers. Deep learning methods are efficient in making fast and accurate diagnoses of COVID-19 using trained models, based on routine CT or X-ray. Wearable sensors can monitor abnormality for home-based mild COVID-19 patients. Human behavioral data can be analyzed to make better individual or community quarantine and social control policies. HI & AI can help predict the protein structures of the coronavirus. The emotional data in mental health can be utilized to help people to cope with self-quarantined people.

This Special Section aims to invite original research papers that report the latest advances of medical images-based HI for COVID-19. Submissions should clarify the substantive improvements on work that has already been published, accepted for publication, or submitted in parallel to other conferences or journals.

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

- Early prediction and early detection;
- Supervised or semi-supervised learning for classification & segmentation;
- Diagnosis using biomarkers;
- Diagnosis using imaging-based data-driven methods;
- Transfer learning methods for diagnosis and segmentation;
- Explainable AI-based prediction, segmentation, and diagnosis.

for COVID-19 and related diseases. Researches on other diseases are welcome if the methods/techniques can be used in COVID-19.

**Schedule:**

- deadline for submissions: Dec 15, 2020
- first decision (accept/reject/revise, tentative): Feb 15, 2021
- submission of revised papers: March 15, 2021
- notification of final decision (tentative): April 15, 2021
- journal publication (tentative): May 15, 2021
Guest Editors

Prof. Yu-Dong Zhang (Eugene), University of Leicester, UK: yudongzhang@ieee.org
Prof. Ng Yin Kwee, Eddie, Nanyang Technological University, Singapore

Submission Guideline:

All manuscripts must be submitted via mstracker.com and Authors must mention in cover letter for each SI manuscript that the manuscript is for the theme and the name of guest editors of SI consideration so that the guest editors can be notified separately. Proof of similarity index report to be less than 12% must be provided when the paper is accepted. Guidelines for the preparation of the manuscripts are available at the journal website http://www.aspbs.com/jmhi/inst-auth_jmhi.htm

Prospective authors should submit an electronic copy of their complete manuscript through the journal Manuscript Tracking System at http://mstracker.com/submit1.php?jc=jmhi

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