EDITORIAL

Medical Image Examination using Traditional and Soft-computing Approaches

The recent development in science, technology and the medical domain helped the human communality to live life with a better ambiance. The improved livelihood helps humans to access a wide variety of facilities, including the state of the art medical facilities. Even though considerable measures are taken to prevent and cure the diseases in humans, the incident rates of new kinds of infectious and communicable/non-communicable diseases are rapidly rising in humans irrespective of their age, race and gender. In order to support the early diagnosis and treatment implementation for the disease, a number of diagnostic procedures are proposed and implemented in various disease diagnostic centers and clinics.

The disease diagnosis based on the medical image is quite straightforward as compared to other diagnostic procedures. Hence, a number of disease examination techniques based on the medical-images of varied modalities are practically used in hospitals. Based on the observation from these images, the doctor will plan for an appropriate treatment procedure to cure the disease. Examination of medical images requires precise and accurate image processing techniques, and hence computer-based diagnostic techniques are recently employed to assess a variety of medical images. The recently soft-computing procedure also plays a major role in medical image analysis by reducing the diagnostic burden during the mass screening process.

The Current Medical Imaging (formerly: Current Medical Imaging Reviews) Journal offers an exceptional standard for the propagation and understanding of various medical imaging assisted disease diagnostic techniques followed in hospitals. This special issue of Current Medical Imaging entitled “Medical image Examination using Traditional and Soft-computing Approaches” brings together the author’s endeavor to bring up-to-date scientific and technological discussion on the applications of traditional and modern computational techniques in the field of medical imaging. This issue includes the following outstanding contributions from eminent researchers and presents the applications of image supported disease examination in key domains, such as (i) Dentistry, (ii) Dermatology, (iii) Breast abnormality and (iv) Brain abnormality assessment [1-11].

This special issue evidently magnifies the applications of medical image assessment procedures for the design and analysis of various computer-assisted diagnostic tools. I am indebted to the Editor-in-Chief, Prof. Dr. Euisin Edmund Kim, for his invaluable assistance and support. I thank Ms. Romasa Azhar Mahaser, Assistant Manager Publications, Bentham Science Publishers for the invaluable assistance and support. The Editor would like to thank all the Reviewers of this special issue for their excellent reviews and comments.

REFERENCES


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