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Medical Image Computing: Theory, System and Applications

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Message from the Guest Editors

Symmetry plays an important role in ''Medical Image Computing: Theory, System and Applications'' as it may represent the crucial properties of medical images as well as properties of solutions of corresponding image resolution and contrast problems. For example, symmetry detection is an important image feature detection widely used in computer vision, image processing, and other fields and has broad application prospects .

The presented Special Issue is devoted to recent advances in ''Medical Image Computing: Theory, System and Applications'' related to symmetries analysis. Among the topics of the Issue are the following: 1) image-based symmetry recognition; 2) medical image segmentation and visualization based on symmetry and graph cuts; 3) measurement and analyses of symmetry characteristic based on medical images; 4) symmetry-based medical signal analysis and processing; 5) diagnostic methods of medical imaging based on symmetric information; 6) advanced imaging in biomedicine ; 7) any topics using the concept of symmetry in ''Medical Image Computing: Theory, System and Applications''.

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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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