

Complex image processing for monitoring and diagnosis

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The session aims to underline the intrinsic connection between complex image processing, on one hand, and two important actions in different fields: monitoring and diagnosis, on the other hand. The applications of complex images like texture and fractals in such domains like: industry, medicine, agriculture, environment, transportation and so on, needs interdisciplinary knowledge and effectively solve many encountered problems. This special session at the **20th International Conference on System Theory, Control and Computing** provides a forum for researchers and practitioners to present and discuss advances in the research and development of intelligent systems for complex image processing and interpretation based on efficient feature selection in the field of monitoring and diagnosis. All session papers need to have a high scientific level and will be selected based on their relevance to the session topics. The included topics are the following (but not limited): Criteria for feature selection, Image processing for real time control, Traffic control based on images, Medical diagnostic systems based on complex image processing, Assistive technologies based on image processing, UAV and robot guidance based on image interpretation, Quality control based on image processing, Fractal analysis, Texture analysis, Parallel processing of images.

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