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SPECIAL ISSUE ON:

Detection of Concealed Growth of Primary Tumours using
Probabilistic Image Processing and Bioinformatics Techniques

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Detection of malignant tumours may reduce the diagnosis of unknown primary tumours. In the DNA of a human body, the basis of genetic codes of cells is corrupted when the body is exposed to chemicals, radiations, inheritance or viruses that lead to mutation in the genetics, which causes cancer in human beings. Presently, many imaging modalities exist which are being used by radiologists for detecting various diseases without performing surgery. Thus, an accurate computer-aided clinical tool is an imperative necessity in order to assist the experts detecting tumours. There are many image processing techniques that are used to detect tumours, including histogram equalisation, image adjustment and thresholding functions.

Our aim is to encourage various innovative image processing techniques for tumour detection. This Special Issue focuses on different strategies that have been proposed to enhance the efficacy of tumour detection and targeting in the treatment of oncological diseases.

Topics of interest include, but are not limited to:

- Region of interest detection
- Image processing
- Image segmentation
- Image recognition
- Image sensing
- Knowledge acquisition and display
- Bio-inspired computing
- MRI
- Pattern recognition
- Image denoising
- Clustering and classification
- Storage and retrieval
- Image and signal processing applications
- Bioinformatics in cancer research
- Bioinformatics applications

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**Proposed publication
schedule:**

Submission Deadline:
07th January 2019

Publication Date:
June 2019

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