

From: fotiadis@cc.uoi.gr
Subject: JBHI-00017-2016 - Invitation to review a paper for IEEE Journal of Biomedical and Health Informatics
Date: January 17, 2016 at 07:26
To: torres.cisneros@ugto.mx
Cc: jbhi-office@embs.org

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Dear Dr. M. Torres-Cisneros,

The captioned manuscript: reference

JBHI-00017-2016, "A wavelet-based framework for robust and fast cell tracking"

has been submitted for possible publication in the IEEE Journal of Biomedical and Health Informatics. I would greatly appreciate it if you could help review this manuscript.

The abstract for this manuscript is as follows:

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The mechanisms of cell motility and their regulation can provide rich information in various biological researches. Therefore, the precision of the tracking method has direct influence to the relevant analyses. Automatic tracking of cells can provide statistical measures that are difficult to be obtained by manual analysis. However, due to the complex structures or the strong dependences of the prior-knowledge, the process speeds of the existing methods are often low and few of them can be applied in real-time applications. In this paper, a general tracking framework is presented to solve this problem. A simple but efficient similarity function is defined for the tracking component to detect the cell behaviors, such as movements, mitosis, merging, entering and disappearing. The proposed framework has been applied to real cell datasets and the evaluation results demonstrate its excellent performance, which provides the tracking precision of 97.66% with the processing speed of 0.578 second/frame, compared to the benchmark methods.

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Our primary objective is to obtain rapid, high-quality, fair reviews of the manuscript within * 3 weeks *. If you are unable to meet this schedule, please advise me via e mail of an approximate date that you can review the manuscript.

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I understand that you are extremely busy and it represents an imposition on your time to perform this service. If you are unable to perform the review, it would be extremely helpful if you would suggest a colleague who could review the manuscript.

When the reviews are completed, I will inform you the decision made by the editorial office based on your recommendation. Thanks in advance for your assistance.

Sincerely,

Prof. Dimitrios Fotiadis