

Cagliari, 14 December 2017

Dear Editor-in-Chief,

I would like to submit a paper for possible publication in *Sensors* journal.

The paper is original and not being considered by any other publishing house.

The details of the manuscript are the following:

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Title: Recent advances of malaria parasites detection systems based on mathematical morphology

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This paper investigates existing mathematical morphology based techniques applied for performing malaria parasites detection and identification in both Giemsa and Leishman stained blood smears images. Malaria is an epidemic health disease and a rapid, accurate diagnosis is necessary for proper intervention. Generally, pathologists visually examine blood stained slides for malaria diagnosis; this kind of visual inspection is subjective, error-prone and time consuming. In order to cope with such issues, computer-aided methods have been increasingly evolved for abnormal erythrocyte and/or parasites detection, segmentation and semi/fully automated classification. The aim of this paper is to present a review of recent mathematical morphology based methods for malaria parasite detection.

I wish you my best regards

Cecilia Di Ruberto

