

From: [J_submit](#)
To: [Xie Ming \(Assoc.Prof\)](#)
Subject: Dear Xu, J; Xie, M: Invitation to Initiate a Special Issue and Serve as the Lead Guest Editor
Date: 2019年6月18日 15:46:39

Initiate a Special Issue in the Journal



American Journal of Mathematical and Computer Modelling
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Dear Xu, J; Xie, M

It is learnt that you have published an article titled "*Iterative Template Matching Strategy for Visual Target Detection by Unmanned Surface Vehicle*" in "*INTELLIGENT ROBOTICS AND APPLICATIONS (ICIRA 2015), PT III*". We think it is well written and related to the subject of *American Journal of Mathematical and Computer Modelling* (<http://www.ajmcm.org>).

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Scholars have showed interests to the enclosed abstract of your research:

Title: Iterative Template Matching Strategy for Visual Target Detection by Unmanned Surface Vehicle

Abstract: The development of USV (Unmanned Surface Vehicle) has boomed around the world for military, research and commercial applications. The full autonomy of the USV is a desirable but challenging task. Though GPS is the main sensing system for the vehicle's positioning and guidance, vision is necessary for tasks such as visual target detection and identification, especially color and shape encoded information. This is well demonstrated in the Maritime RobotX challenge 2014, where all of the five competition tasks require the use of vision to complete. The visual target detection for USV is a challenging task as the platform and target are always moving in the open sea area and the lighting condition varies a lot accordingly to weather and time. For real-time onboard performance, template matching is a good choice for the visual

detection. In certain scenarios, the normal template matching method needs to be enhanced for robust performance. One of the example algorithm is the proposed iterative template matching, which provides a fast and robust solution for the vision tasks in the Maritime RobotX challenge 2014. By an additional step of searching for the visual context for the target, the robustness of detection is significantly improved without loss of accuracy.