

From: J Issue
To: Xu Ming (Assoc. Prof.)
Subject: Dear Xu, J, Xie, M: Invitation from American Journal of Mathematical and Computer Modelling: Submit Your Research Paper
Date: 2019年10月24日 9:23:01

American Journal of Mathematical and Computer Modelling

ISSN Online: 2578-8280 Current Issue: Vol.4, No.3, 2019

Dear Xu, J; Xie, M,

We are very satisfied after reading your article titled "Iterative Template Matching Strategy for Visual Target Detection by Unmanned Surface Vehicle". We feel that your field of research falls in line with *American Journal of Mathematical and Computer Modelling* (<http://www.ajmcm.org>). In consideration of your academic background and research accomplishments in related fields, we sincerely invite you to submit your academic article for publication to the journal.

Suggested Journal List

We have 300+ open access, peer-reviewed journals including almost all branches such as Nuclear, Genomics, Otorhinolaryngology, Construction, Applied Statistics, Urban Planning, Industrial Systems, Risk Management, Brain, Qualitative Analysis, etc.

For more information please check: <http://www.ajmcm.org/journals>

Mathematics and Computer Science
Science Journal of Applied Mathematics and Statistics
International Journal of Applied Mathematics and Theoretical Physics
International Journal of Data Science and Analysis
American Journal of Applied Mathematics



Paper Contribution Instructions

- Here you can find the manuscript requirements and manuscript template: <http://www.ajmcm.org/submission>
- Organize your paper by referring to the manuscript template.
- Register and upload your paper via online submission system.

Fast Publication for Your Article

Accelerated Publication Cycle:
We can release your article online within 6-8 weeks since the date of submission.

Prompt Response:
Our basic principle is immediate feedback about each submitted article, and quick reply to authors' enquiries will be delivered.

Revising Suggestions from Peer Reviewers:
There will be more than 3 peer reviewers from across the world to carefully review each article submitted to the journal. Valuable suggestions will be given to help authors in improving their manuscripts.

Title and abstract of your article:

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.

Regards,
Jessie Wright

The Editorial Office of *American Journal of Mathematical and Computer Modelling*