Respected Sir/Madam,

Thank you for considering the paper "*DTTA- Distributed TDMA based Task Allocation framework for Swarm robots*" for review in your esteemed Journal. This article is not under consideration for publication elsewhere. Each author should have participated sufficiently in any submission to take public responsibility for its content and the author(s) or author(s) institutions have no conflicts of interest.

We propose a generic task allocation scheme which can be utilized to solve 8 different types of MRTA problem proposed in the taxonomy of Gerkey and Matari'c. In addition to this the framework can respond to any unforeseen situations in the deployment scenario through extended task announcement messages. As per our knowledge this is also the first work to be reported on task allocation in clustered environments. We have isolated the navigation and path planning from task allocation so that the same can be used with land robots or with co-operating systems in land and air. We have simulated the framework for two application scenarios.

1- For an object pick up task - analogous to the search and rescue mission

2- Mission where robots are required to disperse in a large area of interest- Analogous to detection of land mines.

Thank you for your valuable time. Looking forward to your valuable comments and feedback.

NB: Signed Certificate of Originality by authors is submitted as Page 2 of this covering letter.

Regards,

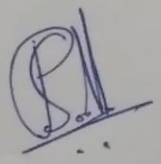
Author 1 :

Meetha V Shenoy,
AEX-05, Department of EEE/ENI
BITS Pilani K K Birla Goa Campus , Zuarinagar, Goa
Phone: 9552536649 , +91-832-25803263
Email:meetha@goa.bits-pilani.ac.in

Author 1 :

Prof Anupama K R
B129 Staff Quarters,
BITS, Pilani – K K Birla Goa Campus,
Near NH17B, Zuari Nagar, Goa -403 726
Phone: +91-832-2580317
Email:anupkr@goa.bits-pilani.ac.in

This is to certify that the reported work in the paper entitled "DTTA- Distributed TDMA based Task Allocation framework for Swarm robots" submitted for publication in the Defence Science Journal is an original one and has not been submitted for publication elsewhere. I/we further certify that proper citations to the previously reported work have been given and no data/tables/figures have been quoted verbatim from the other publications without giving due acknowledgement and without permission of the author(s). The consent of all the authors of this paper has been obtained for submitting the paper to Defence Science Journal.

Author 1: Meetha V Shenoy 

Author 2: Prof K R Anupama