

ConfDriver

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Review details for : How to Make Specialists NOT Specialised in TAC Market Design Competition? Behaviour-based Mechanism Design

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Review Mark Summary

Criteria	Weight	Review #1	Review #2	Review #3
Originality	2	6	6	5
Quality	2	6	6	6
Relevance	1	6	6	7
Presentation	1	6	6	6
Recommendation	6	6	6	6
Overall		6	6	5.91667

Review #1

Author Comments	Chair Comments	Reviewer
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In this paper the authors propose an approach to design double auction mechanisms that are adaptive to market changes under the TAC Market Design platform. The approach considers different behaviors of trader and integrates them to achieve an adaptive mechanism. The paper is interesting. TAC and CAT competitions are important competitions, therefore the work is highly relevant. In addition, the work proposed by the authors is well done and reasonable. My opinion is that the work is significant. In order to improve their paper, the authors could discuss in the related work about the game theoretic work on double auctions. There is a large amount of works on evolutionary game theory for double auctions to understand how the different strategies relate each other (see for instance the works of Simon Parsons on double auctions).

The paper is interesting. TAC and CAT competitions are important competitions, therefore the work is highly relevant. In addition, the work proposed by the authors is well done and reasonable. My opinion is that the work is significant. I provided some suggestions to the authors to improve the paper, but they are minor.

Review #2

Author Comments	Chair Comments	Reviewer
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This paper raises the question of how to design a competitive double auction market that is adaptive to environmental changes. It proposes an approach based on traders' behavior to design

This paper has good quality. The topic is clearly relevant to EC-Web. I recommend to accept the paper.

Author Comments	Chair Comments	Reviewer
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competitive mechanisms that are also adaptive to environmental changes. First, mechanisms that are competitive in environments with one kind of trader are designed. Finally, these trader-dependent mechanisms are integrated to obtain competitive mechanisms for any complex environment that is not known in advance. The mechanisms have been designed to work under the Trading Agent Competition Market Design Platform. The paper is very well written and highly relevant to EC-Web. The work seems to be original, being the first market design framework heavily depending on traders' behavior to understand the market environment. The experimental results seem to be convincing. Overall, this is a good paper and I believe that it will be of interest to the EC-Web audience.

Review #3

Author Comments	Chair Comments	Reviewer
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The paper proposes an adaptive strategy for the CAT tournament. The approach is to first classify traders according to their behaviors and then to adopt a strategy specific to the category of the trader. The article is well written and describes precisely the proposed mechanisms. Experiments validate the proposal to show its efficiency. I have one main question about the robustness to the approach in the situation of a trader with a changing strategy. For example, if a trader changes his strategy during the game, is the classification updated ?

I am not an expert of TAC competitions but up to my knowledge the paper proposes a clear definition of a strategy and experiments to validate it.