**Revision Explanation**

**Title: Impact of decision feedback on networked evolutionary game with delays in control channel**

**ID:** DGAA-D-22-00042R1

**Authors: Liangliang Chang, Zhipeng Zhang, Chengyi Xia**

Dear Editor-in-Chief, Georges Zaccour, Associate Editor and all reviewers:

Thank you for your time and effort in handling our manuscript entitled “**Impact of decision feedback on networked evolutionary game with delays in control channel**”. We would like to express our gratitude to all reviewers for the valuable comments and suggestions, which are very helpful to improve our paper.

We have studied the comments from reviewers carefully and have corrected them according to the comments and suggestions. All revisions are summarized as follows,

* Resolve the concerns pointed out by the reviewers;
* Polish the words and expressions.

All these revised contents have been highlighted in blue in the revision. Our point-to-point responses to the reviewer’s comments are presented in the following content.

Sincerely Yours,

Best regards.

Authors: Liangliang Chang, Zhipeng Zhang, Chengyi Xia.

**Response to Associate Editor**

The authors have delivered a significantly improved manuscript and both reviewers comment on this. Reviewer 1 is now completely happy, and Reviewer 2 only has a small number of points. One of the points made by Reviewer 2 is about the English in the paper - I think this is generally of good quality, but there are a number of places where the words "a" or "the" are missing for instance, and the paper would benefit from a careful read through to improve this. The authors should address these points, and then this interesting paper will be acceptable at DGAA.

**Response:** Thank you very much! Based on the comments pointed out by the reviewers, we have carefully studied them, made point-to-point corrections to the relevant issues, and touched up the text and expressions, please see the revised manuscript for details.

**Response to Reviewer 1**

**Comments:** This is a significantly improved version, the authors have addressed the critical part of my notes successfully. I can support its publication.

**Response:** Thank you for your appreciation of our articles!

**Response to Reviewer 2**

**Comments:** The revised version is a significant improvement. I only have a couple of minor comments.

**Response:** Thank you for your positive feedback, and we answered your concerns as follows.

1. p. 5 Equations (6) and (7) are very unclear. In equation (6), 1 appears s times and s appears t times. I guess that the integers 2,3,...,s-1 are also appear a number of times. But how many times? Should all of these integers be appear t times? q unexpectedly appears in Equation (7), should this be t? Furthermore, the notation used in this equation is explained by Remark 4, which appears on p. 14. Such a remark should be placed immediately after Equations (6) and (7).

**Response:** We are sorry for the trouble we caused. We have now made Equations (6) and (7) clearer and further demonstrations are given in the remark.

I think you mentioned remark 4 (now remark 5) because of the use of a symbol like , which is just a short form and has no special meaning. We are sorry for the trouble we caused, and to avoid similar trouble for other readers, we have explained the symbol in the symbol table.

1. p. 15, l 39-40 "when players 2,3, and 4 choose strategy 2 ...... can reach the desired state after 2 steps of evolution". This should be "when players 2 and 4 choose strategy 2 (regardless of the strategy of player 3)..... can reach the desired state after 2 steps of evolution".

**Response:** Thank you very much, we have made changes here as you suggested

1. Finally, there are still a relatively large number of grammatical errors. Before being published, the article should be edited by a professional language editor.

**Response**: Thanks to your suggestion, we have rechecked the grammatical details of the article.

**Finally, we thank all the reviewers once again for the** **instructive comments and helpful suggestions, which greatly help improve the quality and the presentation of the paper.**