



SDI Review Form 1.6

Journal Name:	Journal of Advances in Mathematics and Computer Science
Manuscript Number:	Ms_JAMCS_41281
Title of the Manuscript:	Deep Recurrent Q-learning Method for Area Traffic Coordination Control
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)

PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<u>Compulsory</u> REVISION comments		
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments	In order to improve the performance of Deep Q-learning when dealing with the area traffic control which is Partially Observable Markov. This paaper introduced Deep Recurrent Q-learning by changing the fully connected network layer to LSTM layer. On the other hand, this paper use d transfer learning to handle the coordination of multiple intersections in the area. By the simulation, this papaer compared the average delay of our algorithm and the Deep Q-learning algorithm for three different saturation flows,respectively. This paper also compare our algorithm with another two popular traffic signal control algorithms, i.e., Q-learning and fixed time control algorithm.	

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