



SDI Review Form 1.6

Journal Name:	British Journal of Mathematics & Computer Science
Manuscript Number:	Ms_BJMCS_20504
Title of the Manuscript:	Numerical Solution of Fuzzy Partial Differential Equations by Using Modified Fuzzy Neural Networks
Type of the Article	Original research papers

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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	In this paper study the new method based on learning algorithm of modified Fuzzy neural networks has been developed for obtaining numerical solution of fuzzy partial differential equations. Using modified fuzzy neural network makes that training points should be selected over an open interval without training the network in the range of first and end points. Therefore, the calculating volume involving computational error is reduced. In fact, the training points depending on the distance selected for training fuzzy neural network are converted to similar points in the open interval by using a new approach, then the fuzzy network is trained in these similar areas. In comparison with existing similar fuzzy neural networks, the proposed method provides solutions with high accuracy. Finally , we illustrate our approach by two numerical examples. The whole analysis could be more comprehensive, and persuasive.	In this paper,we introduce a new method based on learning algorithm of modified fuzzy neural networks to obtain numerical solution of fuzzy partial differential equations. Using modified fuzzy neural network makes that training points should be selected over an open interval without training the network in the range of first and end points. Therefore, the calculating volume involving computational error is reduced. In fact, the training points are converted to similar points in the open interval by using a new approach, then the fuzzy network is trained in these similar areas.The fuzzy trial solution of fuzzy partial differential equation is written as a sum of two parts.The first part satisfies the fuzzy conditions,it contains no fuzzy adjustable parameters .The second part involves a feed-forward fuzzy neural network containing fuzzy adjustable parameters . In comparison with existing similar fuzzy neural networks,the proposed method provides solutions with high accuracy.Finally , we illustrate our approach by two problems .
<u>Optional/General</u> comments		