





ICoAIMS 2019 Submission 154





Program

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Submission 154	
Title	A Note of The Linear Equation $AX=B$ with Multiplicatively-Regular Matrix A in Semiring
Abstract:	 (Jun 20, 22:25 GMT) (previous versions)
Full paper:	 (Jun 20, 22:34 GMT) (previous versions)
Proof of payment:	 (Jun 20, 22:25 GMT) (previous versions)
Final Full Paper:	 (Jul 02, 14:12 GMT)
Author keywords	semiring multiplicatively-regular right complement
EasyChair keyphrases	linear equation system (174), linear equation (125), binary operation (110), regular element (70), equation system (65), linear equation system ax (60), regular matrix (60), linear equation ax (47), right complement matrix ar (40)
Abstract	Semiring is a form of generalization of the ring, where one or more conditions in the ring are removed. An element a is called multiplicatively-regular if there is x so $axa = a$. In real number algebra, a system of linear equations $AX = B$ has a singular solution if a matrix A has an inverse. By reviewing matrix A as a multiplicatively-regular, it is develop of necessary or sucient condition of semiring. Given a matrix A with the right complement matrix Ar satisfies $ArA = 0$. The system of linear equations $AX = B$ has a solution if and only if a matrix B satisfies $AAB = B$

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Abstract	Semiring is a form of generalization of the ring, where one or more conditions in the ring are removed. An element a is called multiplicatively-regular if there is x so $axa = a$. In real number algebra, a system of linear equations $AX = B$ has a singular solution if a matrix A has an inverse. By reviewing matrix A as a multiplicatively-regular, it is develop of necessary or sucient condition of semiring. Given a matrix A with the right complement matrix Ar satisfies $ArA = 0$. The system of linear equations $AX = B$ has a solution if and only if a matrix B satisfies $AAB = B$ with $AAA = A$.
Submitted	Mar 18, 13:17 GMT
Last update	May 14, 08:31 GMT
Category	International (Presenter) - Professional
Designation	Dr.
Paper ID	P020
Dietary Preferences	Non-Vegetarian
How did you obtain information about ICoAIMS 2019?	Internet
Invited speaker	No

Authors

Authors							
first name	last name	email	country	affiliation	Web page	corresponding?	presenter
Gregoria	Ariyanti	ariyantigregoria@gmail.com	Indonesia	Department of Mathematics Education, Catholic University of Widya Mandala Madiun, 63131 Madiun, Indonesia		✓	✓

Reviews

Review 1	
Title	4: (good)
The Abstract	4: (good)
Introduction	4: (good)
Literature Review	4: (good)
Methodology	4: (good)
Figures, Tables	4: (good)
Grammar/Mechanics	4: (good)
Organization/Clarity	4: (good)
Novelty/Originality	4: (good)
References	4: (good)
Results and Discussion.	4: (good)
Conclusion	4: (good)
Overall evaluation	3: (accepted with the necessary changes as recommended by reviewer)
General Comments	There are novelty in the paper but some of the results are stated without proof. Then, the paper is not ready to be publish. Need to add the proof for all new results stated in the paper. Other comments please refer attachment.
Attachment	review.pdf

Review 2	
Title	4: (good)
The Abstract	2: (poor)
Introduction	2: (poor)
Literature Review	2: (poor)
Methodology	3: (fair)
Figures, Tables	4: (good)
Grammar/Mechanics	4: (good)
Organization/Clarity	3: (fair)
Novelty/Originality	4: (good)
References	2: (poor)
Results and Discussion.	4: (good)
Conclusion	2: (poor)
Overall evaluation	3: (accepted with the necessary changes as recommended by reviewer)
General Comments	Good paper, but no conclusion stated. Abstract: problem is not clearly stated. Introduction: Accepted, but missing quoting references in this section. Some Preliminaries on Semiring 1. Missing some references before reference #5 (jump from 2 to 5). 2. In 2.2, the definition is not quoted. Results 1. The novelty results of this paper is not clearly distinguished since the existence definition/theorem/lemmas are not quoted. References 1. Only ref. 2 & 5 are quoted. 2. Need to add some current references (too old-2000 is the latest).