REVIEW
to N.A. PROTSENKO AND V.V. RYBAKOV
«MULTILINEAR MULTIMODAL LOGIC WITH SEMI-RELIABLE
INFORMATION OPERATOR»

In the paper, the Authors study various logical systems and their possible interpretation in the field of computer science.

The Authors consider a logical system in which it is possible to model the interaction between agents. The main goal of this paper is to provide that the proposed logical system is decidable.

The paper «MULTILINEAR MULTIMODAL LOGIC WITH SEMI-RELIABLE INFORMATION OPERATOR» contains substantial and interesting new results.

The paper can be published in the journal «Siberian Electronic Mathematical Reports» but there are few moments to edit:

1) Abstract, 3 line above:
Instead of «expands» there to be «expand».

2) page 146, 9 line above:
In the definition of a W_N there is $k \in \omega$, therefore there should be $Ac = \{a_0, a_1, ...\}$.

3) page 146, 13 line above :
Instead of «$k, i \in \omega$» there to be «$k, z \in \omega$».

4) page 147, 9–10 lines above:
Earlier and later in the text the operator N_{sy} font is different.

5) page 147, Definition 1:
Put «.» in the end of Def 1.

6) page 148, Definition 2:
Instead of «. Where» there to be «, where».

7) page 149, 1 line above:
Instead of «reduced by N» there should probably be «reduced by ϕ».

8) page 149, Definition 5:

Put «.» in the end of Def 5.

9) page 149, Definition 5:
The «$\bigcup$» symbol is probably missing in $Opport_i^\phi(x)$.

10) page 149, Definition 7:
Put «.» in the end of Def 7.

11) page 150, 7 line above:
Please clarify what is «*stable*».

12) page 150, 20 line above:
Put «.» in the end of the sentence.

13) page 150, Lemma 6:
Put «.» in the end of the Lemma 6.

Something is missing after «$\phi \in Form$» probably «and»?

14) page 151, Lemma 7:
Please provide the definition of the model $M_{NFA(\phi)}^{fin_{Ac\&ch}}$.

15) page 151, 15, 22 lines above:
Put «.» in the end of the sentences.

25.05.2025   Reviewer