

REVIEW
to V.V. RYBAKOV
«Non-linear Temporal Logic, Admissibility for Rules and Almost-Projective
Formulas»

In the paper, the Author considers admissibility problem in some non-linear temporal logic. This logic L is generated by family of all possible temporal models which are closed and have the compression property.

The Author considers a special generalization of projective formulas. An algorithm computing most general unifier for any given unifiable in L formula is proposed. It is proved that unifiability problem and admissibility problems for such logic are decidable.

The paper «Non-linear Temporal Logic, Admissibility for Rules and Almost-Projective Formulas» 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) page 2, 36, 37 lines above:

Instead of « $\Box^+\phi := \neg G\neg\phi$, $\Box^-\phi := \neg H\neg\phi$ » there should probably be « $\Box^+\phi := G\phi$, $\Box^-\phi := H\phi$ ».

2) page 3, 11 line above :

Instead of « $\langle W, R, \rangle$ » there to be « $\langle W, R, V \rangle$ ».

3) page 3, 32 line above:

Instead of « ϕ) such» there to be « ϕ such».

4) page 3, 33 line above:

Instead of «varepsilon» there to be « ε ».

5) page 4, 24 line above:

Instead of «Box» there to be « \Box ».

6) page 5, 20 line above:

Instead of « ϕ true one element reflexive frame. » there to be « ϕ true **in** one element reflexive frame. ».

7) page 5, 37 line above:

Instead of « $g_i i$ » there to be « g_i ».