A Resolution-Based Decision Procedure for $\mathcal{SHOIQ}$

Yevgeny Kazakov · Boris Motik

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The contents of the Table 8 was wrong due to an error in the manuscript preparation process.

Table 8 Expressing Large Cardinality Restrictions in $\mathcal{SHOIQ}$

TA1 $\neg(A_p \sqcap \dots \sqcap A_0) \sqcap A \sqsubseteq \geq 2R.A$	TA3 $A_0 \sqsubseteq \forall R.\neg A_0$
TA2 $(A_p \sqcup \dots \sqcup A_0) \sqcap A \sqsubseteq \leq 1R^-.A$	TA4 $\neg A_0 \sqsubseteq \forall R.A_0$
TA5 $\neg A_{i+1} \sqcap A_i \sqsubseteq \forall R.((\neg A_{i+1} \sqcap A_i) \sqcup (A_{i+1} \sqcap \neg A_i))$	TA7 $\neg A_{i+1} \sqcap \neg A_i \sqsubseteq \forall R.\neg A_{i+1}$
TA6 $A_{i+1} \sqcap A_i \sqsubseteq \forall R.((A_{i+1} \sqcap A_i) \sqcup (\neg A_{i+1} \sqcap \neg A_i))$	TA8 $A_{i+1} \sqcap \neg A_i \sqsubseteq \forall R.A_{i+1}$
TA9 $\{c\} \sqsubseteq \neg A_p \sqcap \dots \sqcap \neg A_0$	$i=0 \dots p-1$
TB1 $\neg(B_q \sqcap \dots \sqcap B_0) \sqcap B \sqsubseteq \leq 2S.B$	TB3 $B_0 \sqsubseteq \forall S.\neg B_0$
TB2 $(B_q \sqcup \dots \sqcup B_0) \sqcap B \sqsubseteq \geq 1S^-.B$	TB4 $\neg B_0 \sqsubseteq \forall S.B_0$
TB5 $\neg B_{i+1} \sqcap B_i \sqsubseteq \forall S.((\neg B_{i+1} \sqcap B_i) \sqcup (B_{i+1} \sqcap \neg B_i))$	TB7 $\neg B_{i+1} \sqcap \neg B_i \sqsubseteq \forall S.\neg B_{i+1}$
TB6 $B_{i+1} \sqcap B_i \sqsubseteq \forall S.((B_{i+1} \sqcap B_i) \sqcup (\neg B_{i+1} \sqcap \neg B_i))$	TB8 $B_{i+1} \sqcap \neg B_i \sqsubseteq \forall S.B_{i+1}$
TB9 $\neg B_q \sqcap \dots \sqcap \neg B_0 \sqsubseteq \{c\}$	$i=0 \dots q-1$
T1 $A \sqcap A_q \sqcap \dots \sqcap A_0 \sqsubseteq B \sqcap B_p \sqcap \dots \sqcap B_0$	

TA1–9 express $|A \sqcap A_p \sqcap \dots \sqcap B_0| \geq 2^{2^p}$; TB1–9 express $|B \sqcap B_q \sqcap \dots \sqcap B_0| \leq 2^{2^q}$

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Y. Kazakov · B. Motik (✉)
Computing Laboratory, University of Oxford, Oxford, UK
e-mail: boris.motik@comlab.ox.ac.uk