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**Event-clock visibly pushdown automata.** (English) Zbl 1206.68183

Nielsen, Mogens (ed.) et al., SOFSEM 2009: Theory and practice of computer science. 35th conference on current trends in theory and practice of computer science, Špindlerův Mlýn, Czech Republic, January 24–30, 2009. Proceedings. Berlin: Springer (ISBN 978-3-540-95890-1/pbk). Lecture Notes in Computer Science 5404, 558–569 (2009).

Summary: We introduce the class of event-clock visibly pushdown automata (ECVPAs) as an extension of event-clock automata. The class of ECVPAs, on one hand, can model simple real-time pushdown systems and, on the other hand, is determinizable and closed under Boolean operations. We also show that for a timed visibly pushdown automaton  $A$  and an ECVPA  $B$ , the inclusion problem  $L(A) \subseteq L(B)$  is decidable. For the entire collection see [[Zbl 1154.68020](#)].

**MSC:**

[68Q45](#) Formal languages and automata

Cited in **5** Documents

**Full Text:** [DOI](#)

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