

**MR2506930 (Review)** 68Q45 (68Q70)

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**Incremental construction of minimal tree automata. (English summary)**

*Algorithmica* **55** (2009), no. 1, 95–110.

It is known that adding or deleting an element from a regular (string or tree) language results in another regular language. So, for a (minimal) tree automaton  $\mathcal{A}$  and a tree  $t$ , if  $L(\mathcal{A})$  is the language recognized by  $\mathcal{A}$ , both  $L(\mathcal{A}) \cup \{t\}$  and  $L(\mathcal{A}) \setminus \{t\}$  are regular and thus can be recognized by some (minimal) tree automata  $\mathcal{A}^\dagger$  and  $\mathcal{A}'$ , respectively.

In this paper, the authors design algorithms which by taking the inputs  $\mathcal{A}$  (a minimal tree automaton) and  $t$  (a tree), outputs the minimal automata  $\mathcal{A}^\dagger$  and  $\mathcal{A}'$  which recognize the languages  $L(\mathcal{A}) \cup \{t\}$  and  $L(\mathcal{A}) \setminus \{t\}$  respectively.

Reviewed by *Saeed Salehi*

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*Note: This list reflects references listed in the original paper as accurately as possible with no attempt to correct errors.*