



AlgoB

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Both Emerite Neou

LIGM Paris-Est

Tuesday, April 14, 2015 at 11:00 in 4B084

Laboratoire d'Informatique Gaspard-Monge

Université Paris-Est Marne-la-Vallée

5 bd Descartes, Champs-sur-Marne

Abstract: Given permutations $\sigma \in S_k$ and $\pi \in S_n$, the *pattern containment* problem is to decide whether π contains σ as an order-isomorphic subsequence. We give a linear-time algorithm in case both π and σ avoid 213 and 231. For the special where only σ avoids 213 and 231, we present a $O(kn^2)$ time algorithm. We extend our research to (213, 231)-avoiding bivincular pattern and present a $O(kn^3)$ time algorithm.