



Dortmund, 13. Mai 2004

EINLADUNG

Im Rahmen des Kolloquiums des Fachbereichs Informatik wird

Pascal Tesson
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einen Vortrag halten mit dem Titel

Classification Theorems for the Communication Complexity of Regular Languages

ORT: GB IV, H.112
ZEIT: Dienstag, 18. Mai 2004, 16:15 Uhr

ZUSAMMENFASSUNG:

We define the communication complexity of a regular language L as the least number of bits that two players Alice and Bob have to exchange to decide if a word $a_1b_1a_2b_2\dots a_nb_n$ belongs to L when the a_i and b_i are known to Alice and Bob respectively. This complexity can be shown to be determined by the algebraic properties of the syntactic monoid and this approach allows us to completely characterize the communication complexity of regular languages in the deterministic model and in its probabilistic, non-interactive and Mod_p counting variants. We will also present the challenges posed by the non-deterministic model in this context.



ZU DIESEM VORTRAG LADEN HERZLICH EIN
DIE DOZENTEN DES FACHBEREICHES INFORMATIK