

## Annuncio di Seminario

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# Bounds on two LZ78-style Grammars

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We investigate two closely related LZ78-based compression schemes: LZMW (an old scheme by Miller and Wegman) and LZD (a recent variant by Goto et al.). Both LZD and LZMW naturally produce a grammar for a string of length  $n$ ; we show that the size of this grammar can be larger than the size of the smallest grammar by a factor  $\Omega(n^{1/3})$ . We also show that the standard algorithms using  $\Theta(z)$  working space to construct the LZD and LZMW parsings, where  $z$  is the size of the parsing, work in  $\Omega(n^{5/4})$  time in the worst case.

Per maggiori informazioni:

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