Exceptional Words Counting

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We present two recent works to assess the significance of exceptional words, such as Transcription Factor Binding Sites in co-regulated genes. First, one designs $AhoPro$, a variant of a classical automaton, $AhoCorasick$. A nice feature is the possible assessment of the significance of a weak signal when exists a strong signal. Space requirement is minimized in a second approach, that relies on a so-called overlapping graph. Some applications to Drosophila regulation are presented.