

The Computer Science Program of CSU Channel Islands presents:

Exact and Approximate Pattern Matching in Genomes

a talk by

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Tuesday, November 1st, 2016, 6:00 – 7:00 p.m. in SIE 1422.



Abstract: Exact pattern matching is a very frequent task of locating all occurrences of pattern P in text T . When we have text T in advance we can construct an index for the text that allows to search for the pattern in time linear to the length of the pattern. Self-index is an index which in addition allows to replace the original text, so it supports queries retrieving the text. The lecture presents self-index for highly similar texts like genomes of the same specie. However, only exact string matching is supported by classic self-indices. The lecture also shows how standard self indices can be used for approximate pattern matching.

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Refreshments will be served.