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Abstract book

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Extraction of hydrodynamic multivariate power functions from real time datasets using product unit networks

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A method is presented for extraction of hydrodynamic multivariate, multi-term power functions from real time data and complex processes. Several modifications are proposed to the rule extraction system RF5 in such a way that it is applicable to complex and large datasets. A pruning algorithm is presented that strongly increases the comprehensibility of extracted formulas. The working of the method will be demonstrated by real time problems like the impact of navigatuin traffic on sand exchange between groyne field beaches and navigation channel of the Dutch Rhine.