

# **Selection of sets of influence in meshless finite difference methods**

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I will present recent results on algorithms for stencil selection for RBF-FD and polynomial type meshless finite difference methods. The goal of these algorithms is to generate as small as possible sets of influence of desired accuracy, in order to maximize sparsity of the system matrix. The results are obtained in part jointly with Dang Thi Oanh, Ngo Manh Tuong, Mansour Safarpour.