

# Adaptive Intelligence Applied to Numerical Optimisation

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The article presents experimental results achieved by adaptive heuristics applied to numerical optimisation of several non-constraint test functions. The aims of the study are to identify and compare how adaptive search heuristics behave within a search space without local correlation and within a search space dominated by local optimum. The achieved results are summarised and analysed. A discussion focuses on the abilities of the adaptive heuristics to cope with non-trivial search space without local correlation between neighbour locations and on the abilities to escape from trap local optimum, which dominates more than 50% of the search space and then to reach global optimum. The article presents, also, the values of the variables for the best achieved results, which could be used for comparison to other methods and further investigation.