GSEE Benchmark Standard Report

Report created on 2024-12-17-16-44

Input data: aggregated_solver_labels_2024-12-10-07-10.csv, last modified Wed Dec 11 11:17:02 2024

Input data: Hamiltonian_features.csv, last modified Mon Dec 16 09:53:12 2024

WARNING! We only have features calculated for 229/230 Hamiltonians. This report is based on partial results!

Problem Instance Summary Statistics
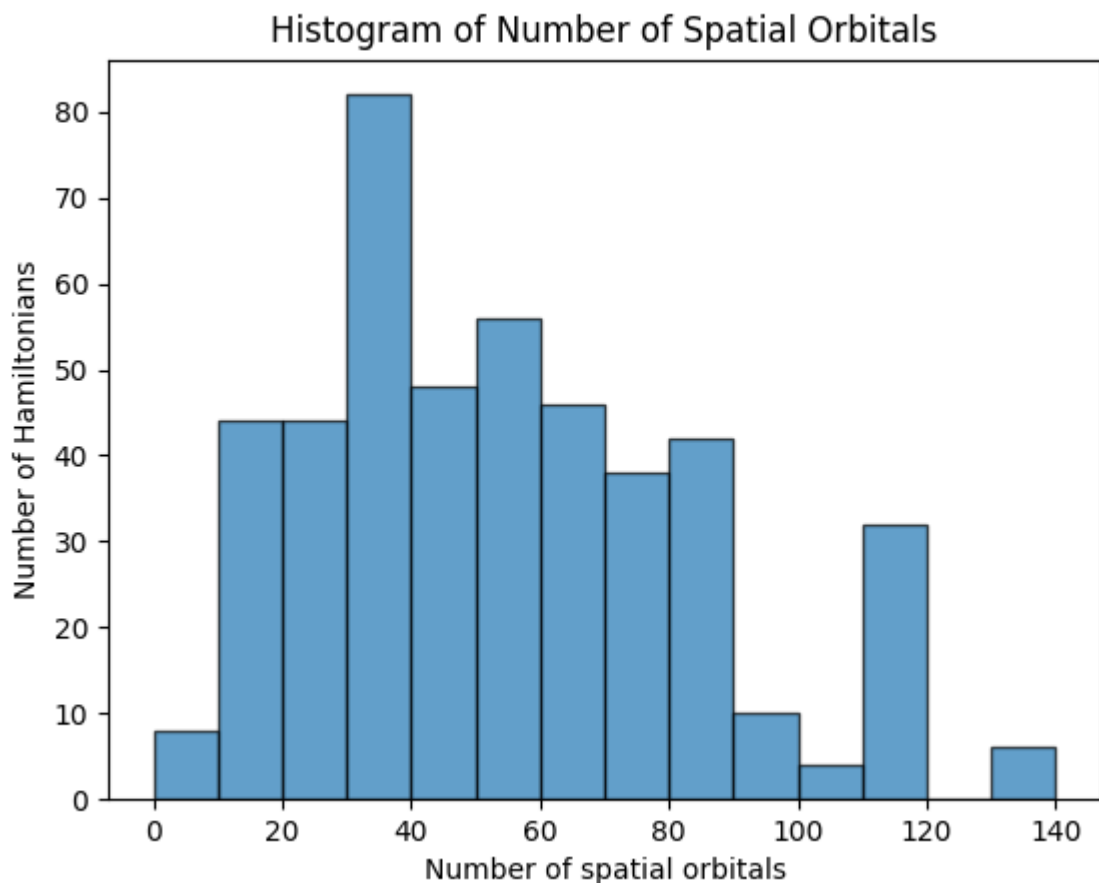
number of `problem_instances`: 82

`problem_instance.json` with the most tasks: 999999

number of Hamiltonians (i.e., tasks): 230

minimum number of orbitals: 6

median number of orbitals: 53.5

maximum number of orbitals: 135

Histogram of Number of Spatial Orbitals

Solver Summary Statistics

number of unique participating solvers: 2

Solver DMRG_Niagara_cluster_lowest_energy, 16537433-9f4c-4eae-a65d-787dc3b35b59

solver_short_name: DMRG_Niagara_cluster_lowest_energy

performance_metrics_uuid: 8297b0b2-d56c-4d49-98b4-b22f1cadbf2b

creation_timestamp: 2024-12-10T12:17:57.033953Z

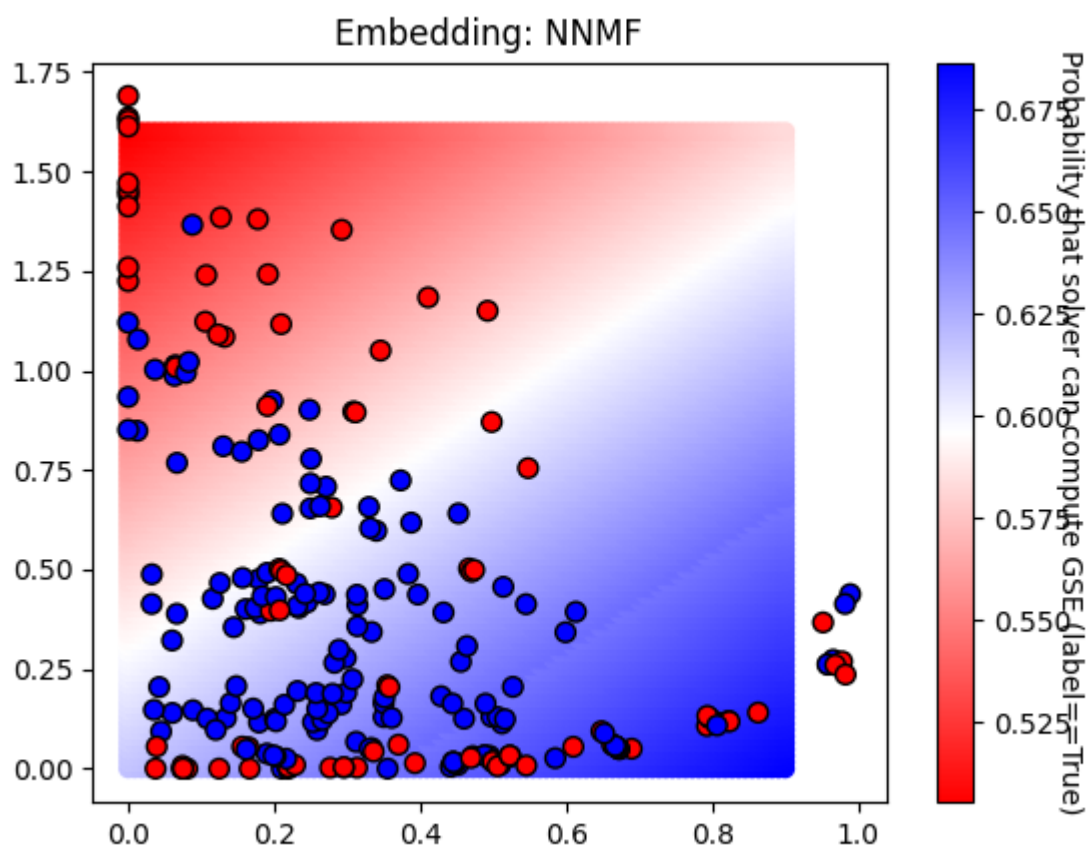number_of_problem_instances: 82

number_of_problem_instances_attempted: 82

number_of_problem_instances_solved: 82

number_of_tasks: 230

number_of_tasks_attempted: 230

number_of_tasks_solved: 230

number_of_tasks_solved_within_run_time_limit: 230

number_of_tasks_solved_within_accuracy_threshold: 230

max_run_time_of_attempted_tasks: 80820.729907066

sum_of_run_time_of_attempted_tasks: 1824772.0337238186

solvability_ratio: 0.7533

f1_score: [0.7638888888888888, 0.8776978417266187]

ml_metrics_calculator_version: 1

Solver DF_QPE, f2d73e1f-3058-43c4-a634-b6c267c84ff1

solver_short_name: DF_QPE

performance_metrics_uuid: 32034c2e-2319-4da8-8d99-65d0a3807291

creation_timestamp: 2024-12-10T12:17:57.483531Z

number_of_problem_instances: 82

number_of_problem_instances_attempted: 82

number_of_problem_instances_solved: 82

number_of_tasks: 230

number_of_tasks_attempted: 230

number_of_tasks_solved: 230

number_of_tasks_solved_within_run_time_limit: 230

number_of_tasks_solved_within_accuracy_threshold: 230

max_run_time_of_attempted_tasks: 696389950.5024

sum_of_run_time_of_attempted_tasks: 1091561520.6118402

solvability_ratio: None

f1_score: None

ml_metrics_calculator_version: 1

Embedding: NNMF