Online Appendix: Probabilistic Selection Approaches in Decomposition-based Evolutionary Algorithms for Offline Data-Driven Multiobjective Optimization

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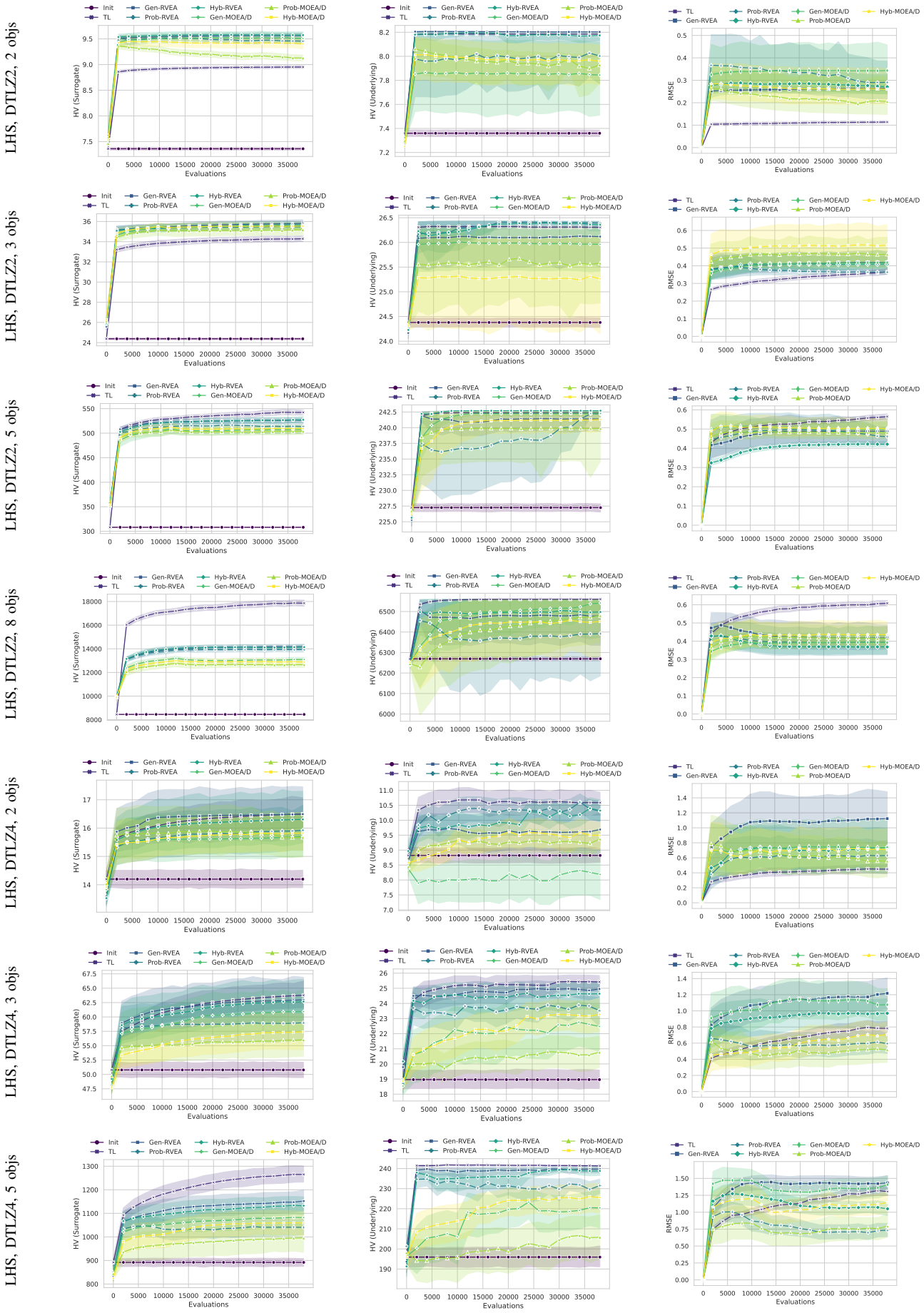

Fig. 1: Progress of the solution process for the instances mentioned showing variation of hypervolume in surrogate objective space, underlying objective space and RMSE with function evaluations for the runs with median hypervolume values.

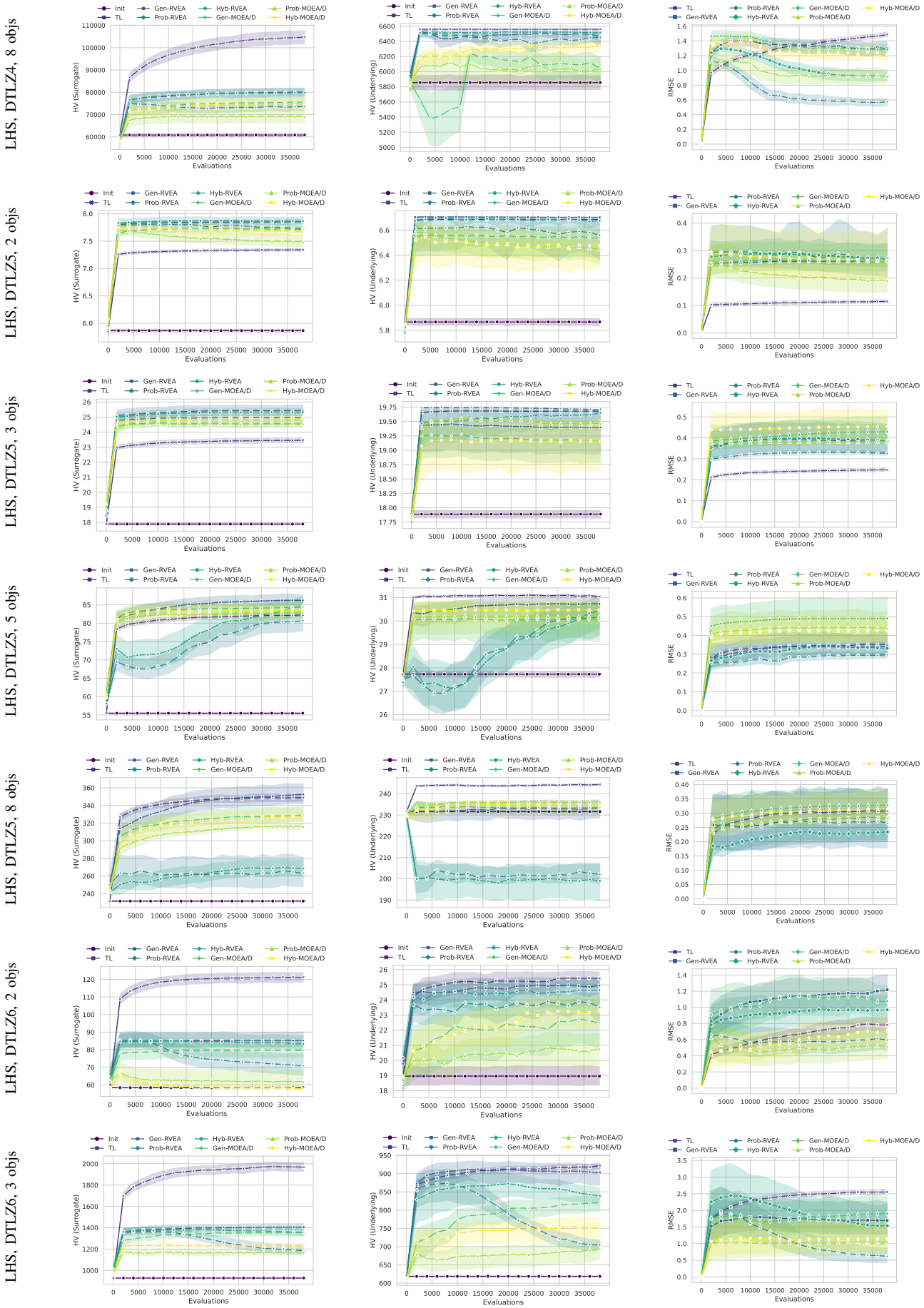

Fig. 2: Progress of the solution process for the instances mentioned showing variation of hypervolume in surrogate objective space, underlying objective space and RMSE with function evaluations for the runs with median hypervolume values.

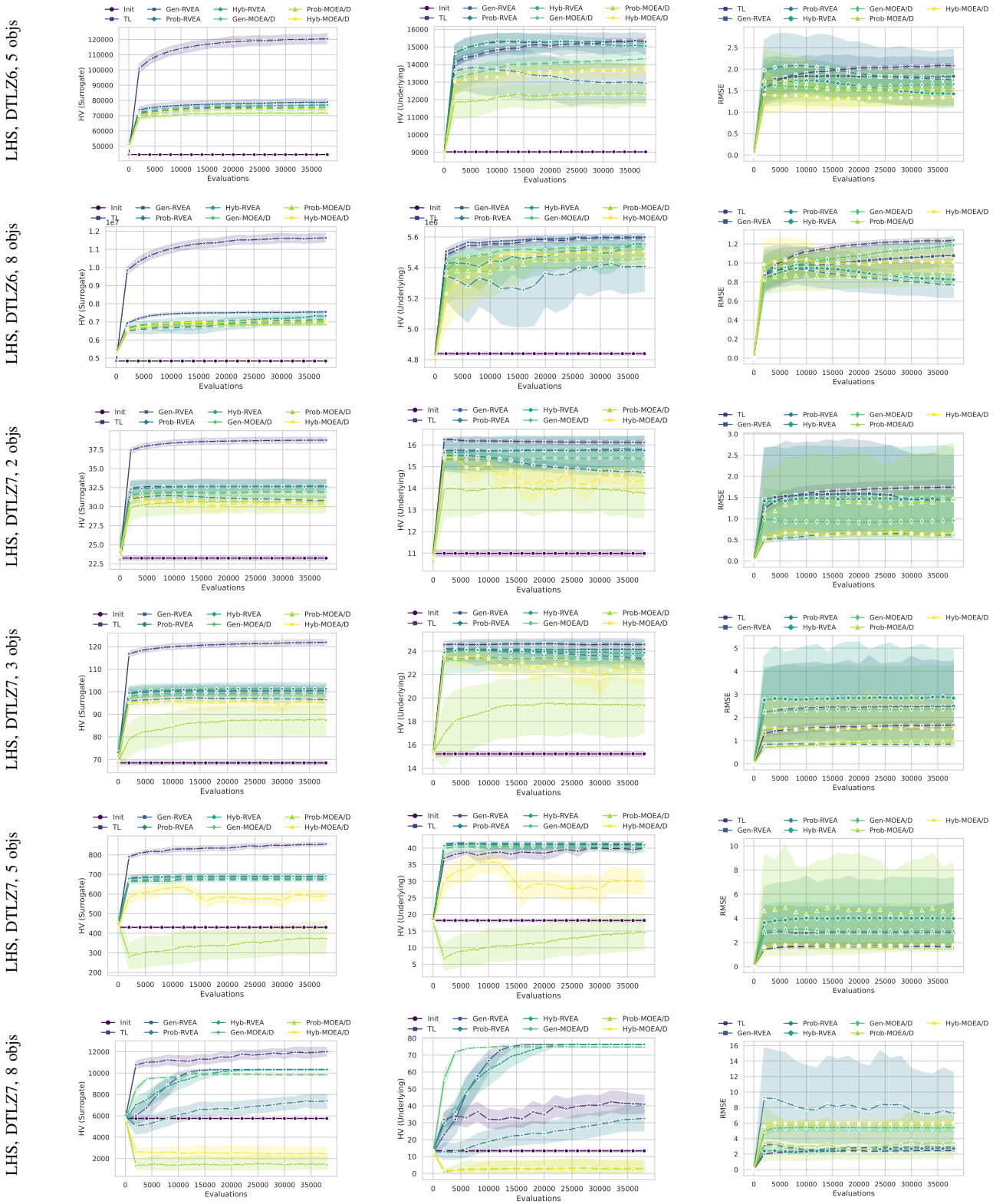

Fig. 3: Progress of the solution process for the instances mentioned showing variation of hypervolume in surrogate objective space, underlying objective space and RMSE with function evaluations for the runs with median hypervolume values.

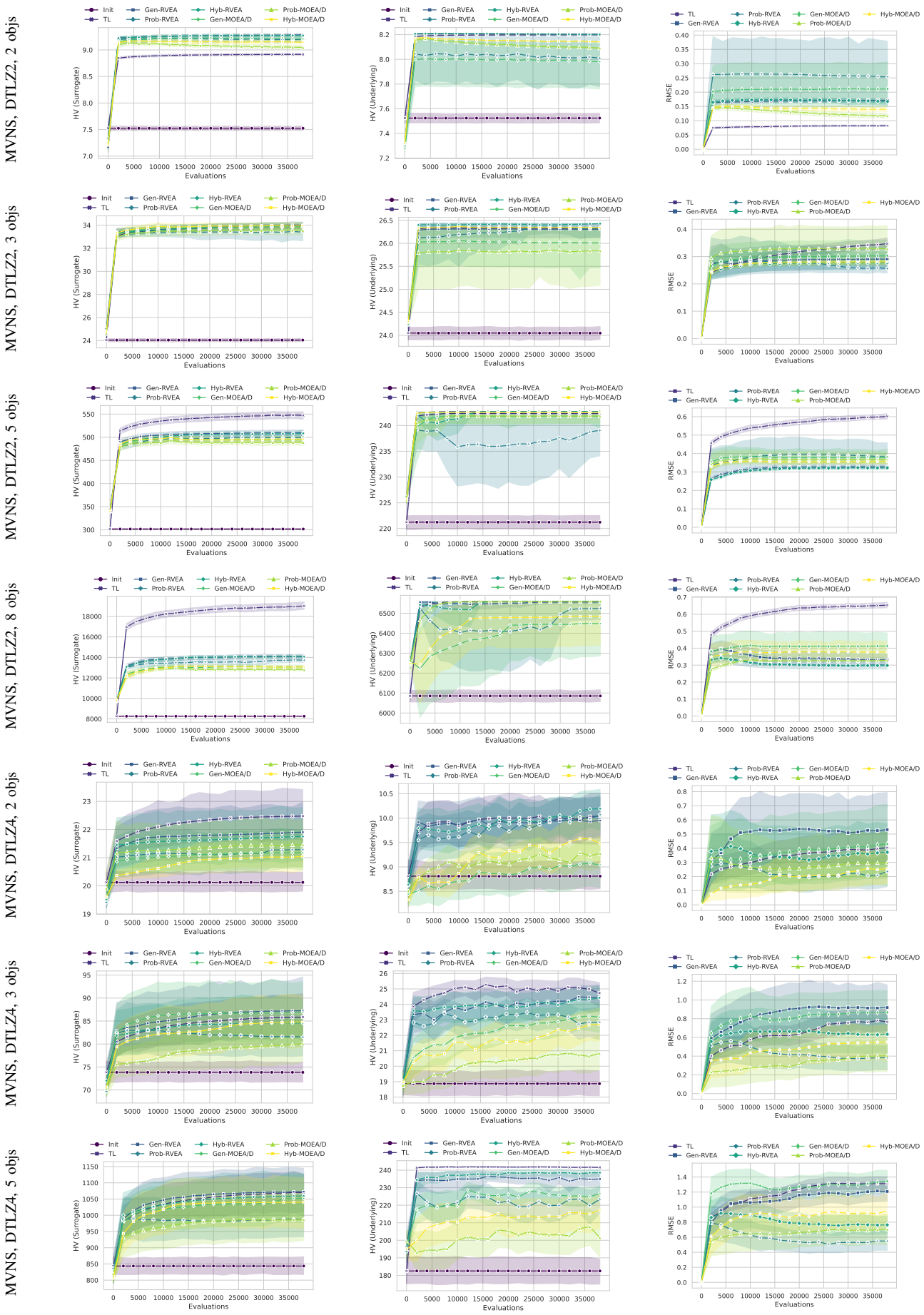

Fig. 4: Progress of the solution process for the instances mentioned showing variation of hypervolume in surrogate objective space, underlying objective space and RMSE with function evaluations for the runs with median hypervolume values.

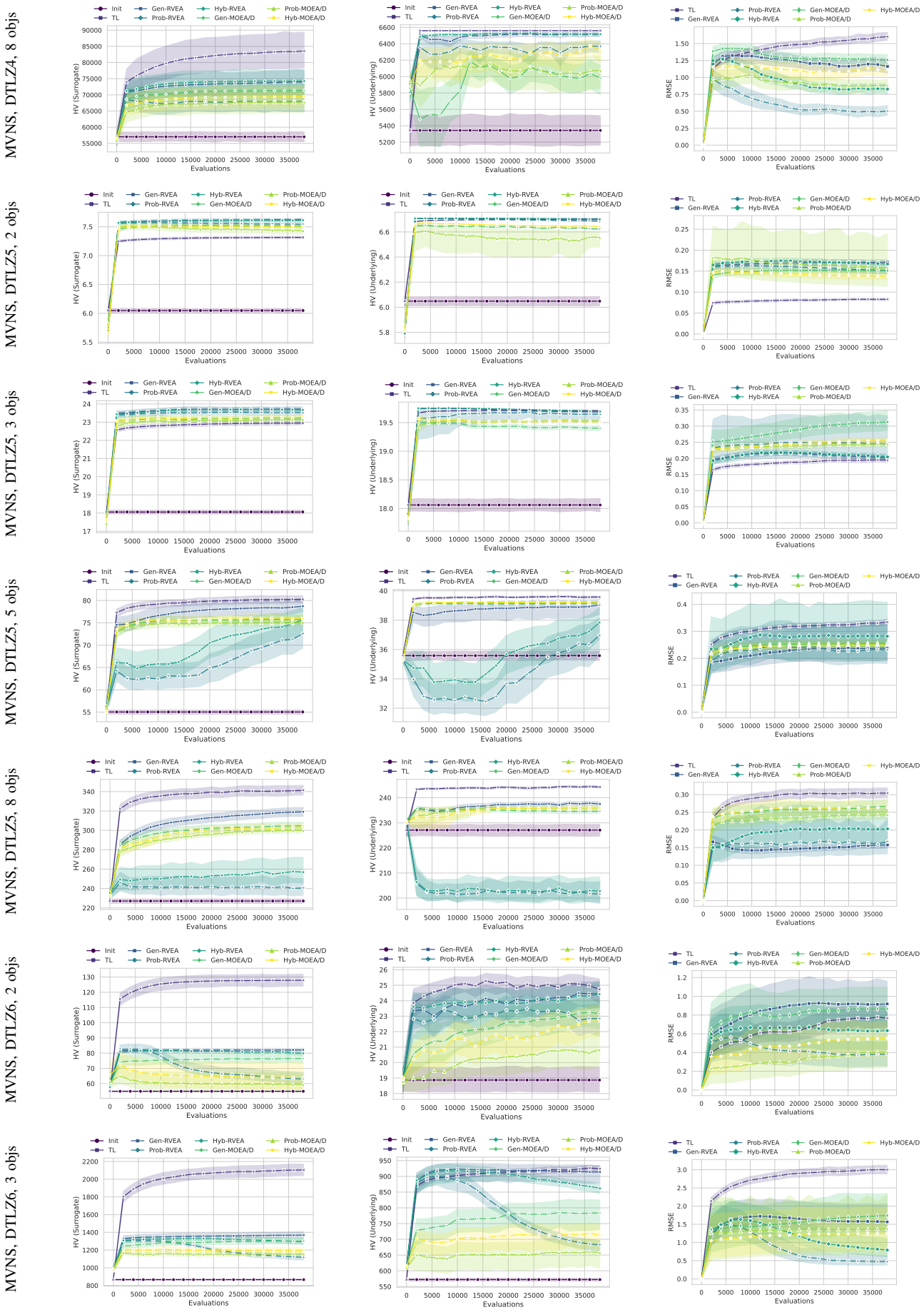

Fig. 5: Progress of the solution process for the instances mentioned showing variation of hypervolume in surrogate objective space, underlying objective space and RMSE with function evaluations for the runs with median hypervolume values.

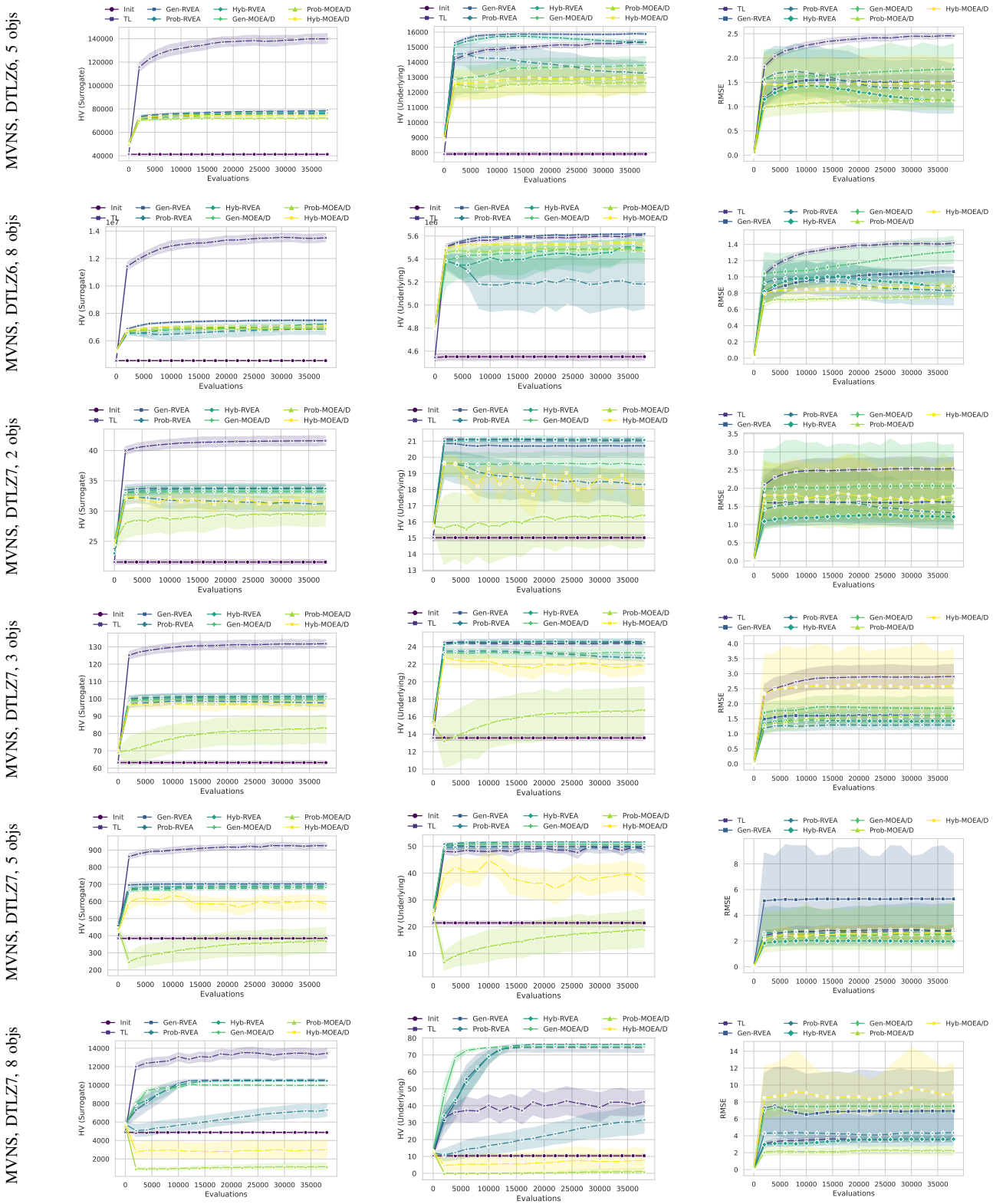

Fig. 6: Progress of the solution process for the instances mentioned showing variation of hypervolume in surrogate objective space, underlying objective space and RMSE with function evaluations for the runs with median hypervolume values.

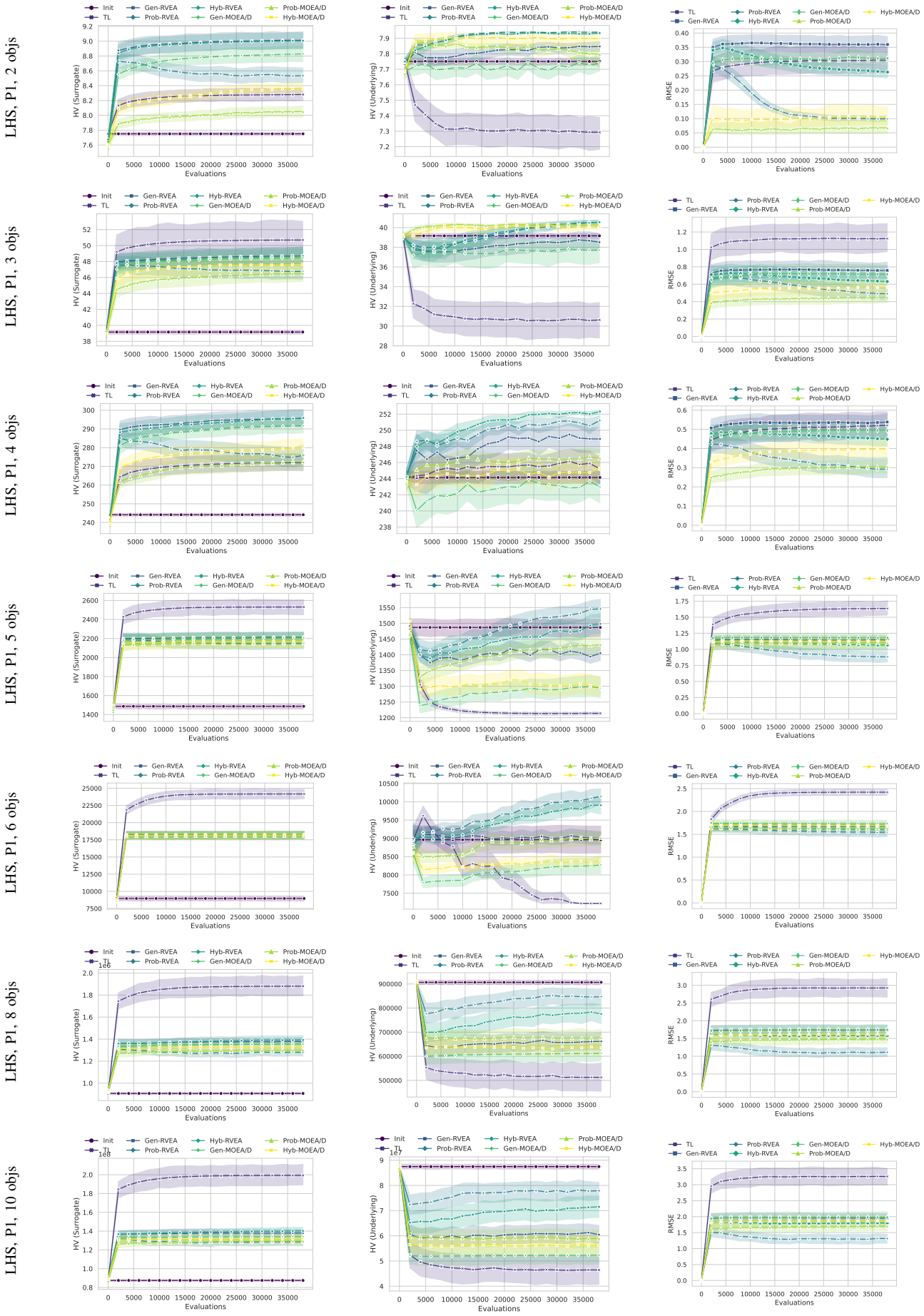

Fig. 7: Progress of the solution process for P1 with LHS showing variation of hypervolume in surrogate objective space, underlying objective space and RMSE with function evaluations for the runs with median hypervolume values.

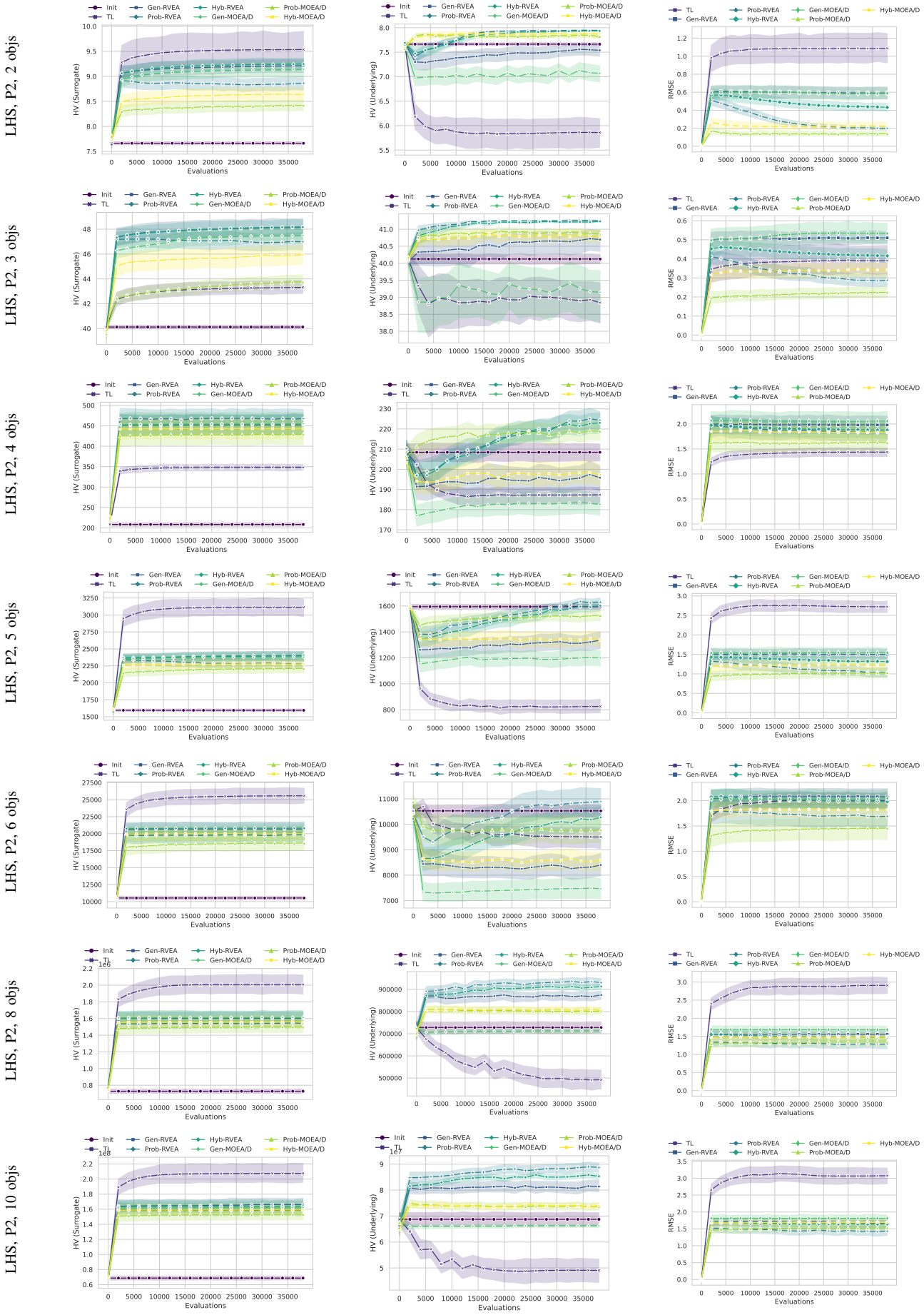

Fig. 8: Progress of the solution process for P2 with LHS showing variation of hypervolume in surrogate objective space, underlying objective space and RMSE with function evaluations for the runs with median hypervolume values.

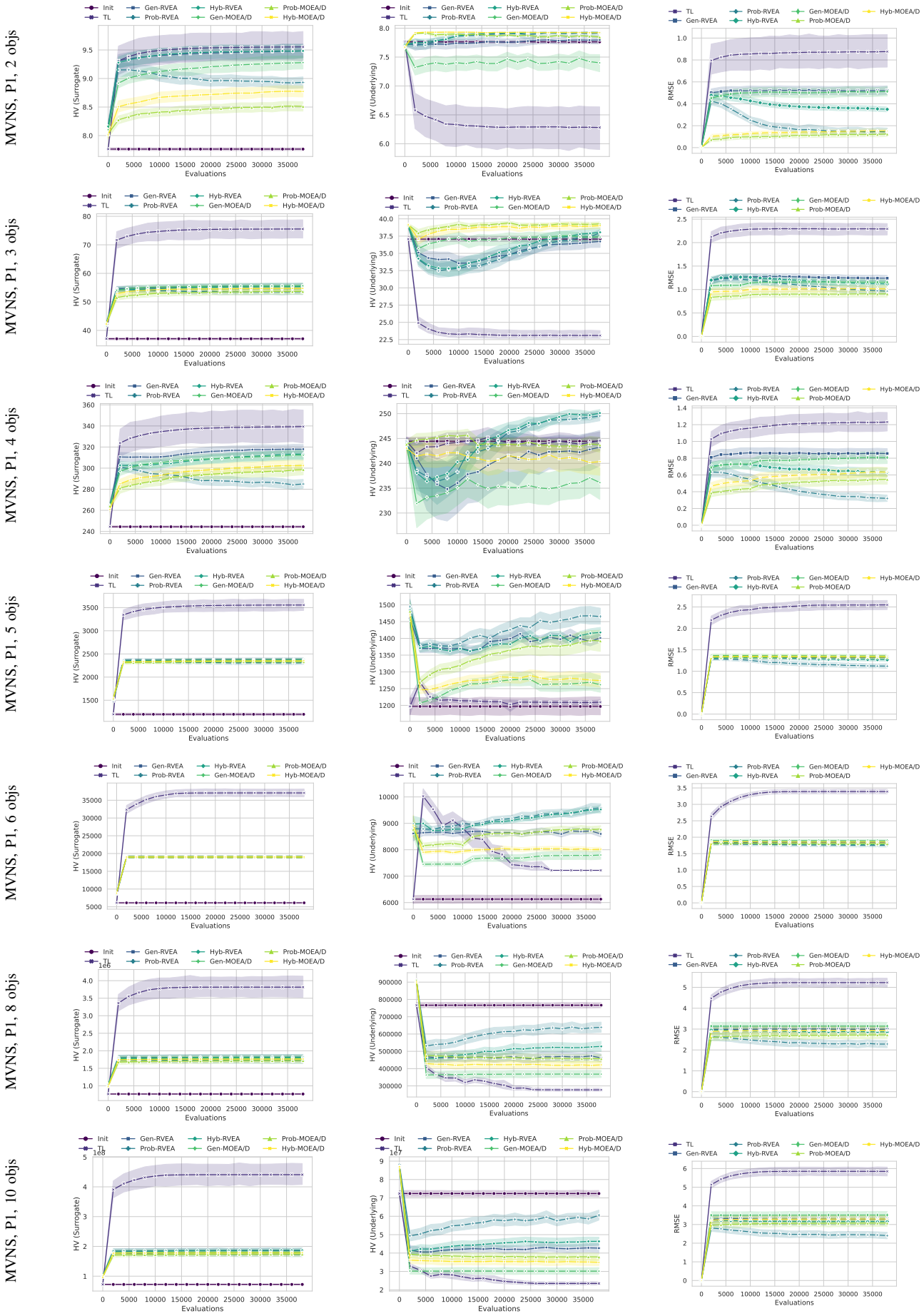

Fig. 9: Progress of the solution process for P1 with MVNS showing variation of hypervolume in surrogate objective space, underlying objective space and RMSE with function evaluations for the runs with median hypervolume values.

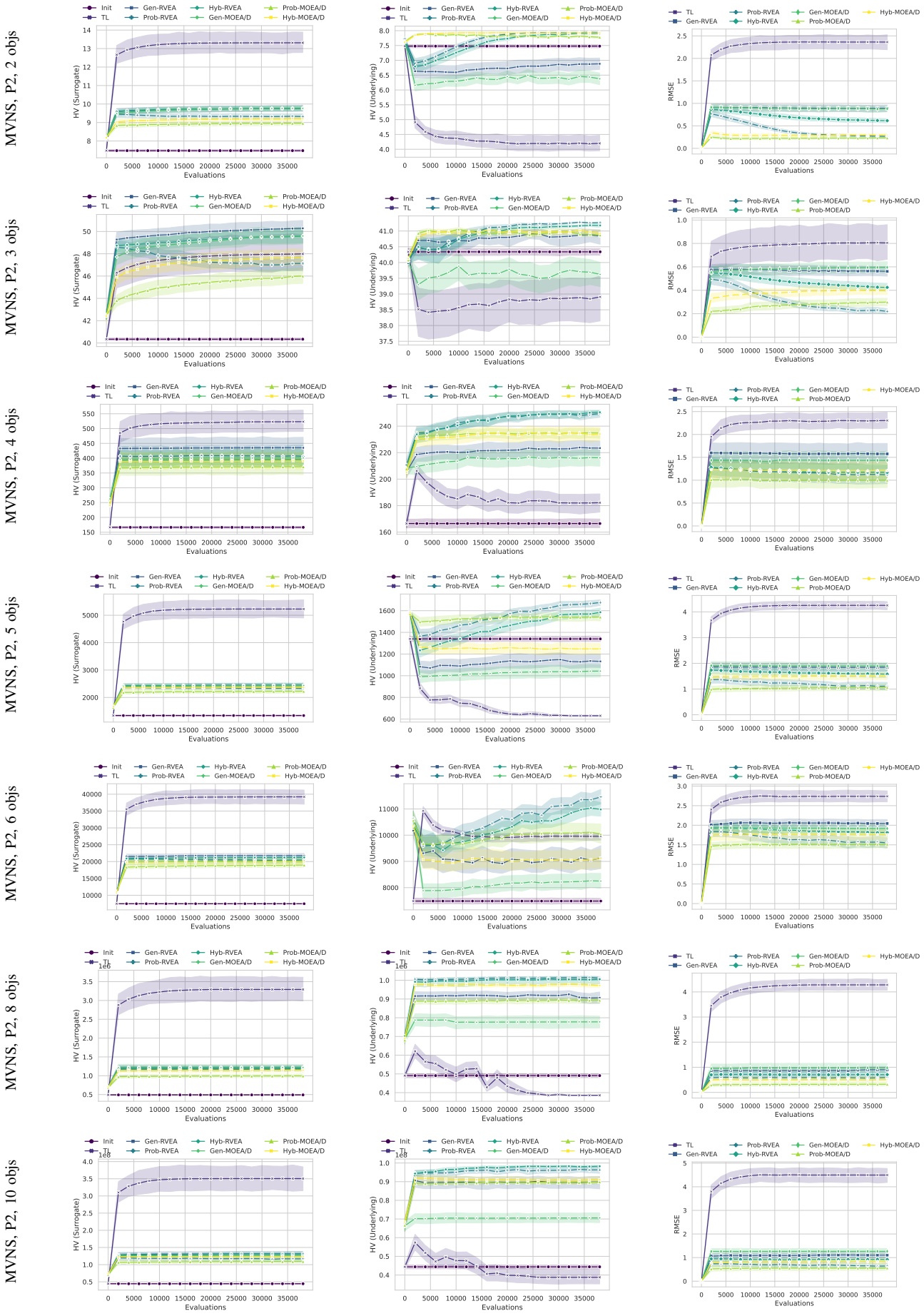

Fig. 10: Progress of the solution process for P2 with MVNS showing variation of hypervolume in surrogate objective space, underlying objective space and RMSE with function evaluations for the runs with median hypervolume values.