

Supplementary Materials for

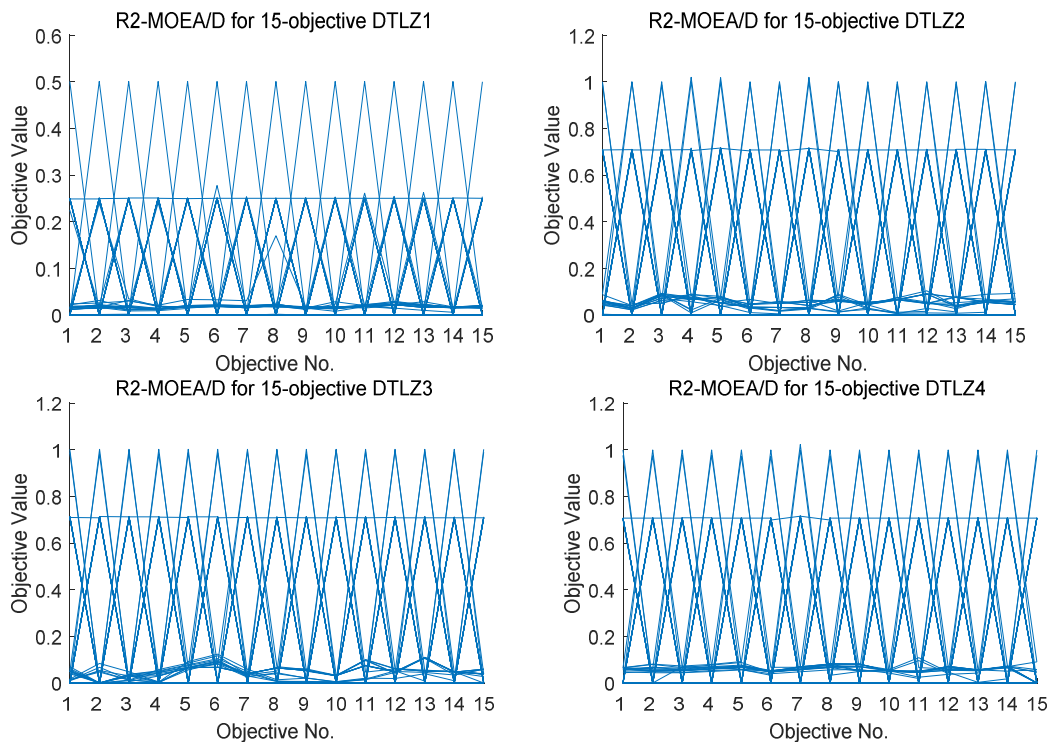
An R2 Indicator and Decomposition Based Steady-state Evolutionary Algorithm for Many-objective Optimization

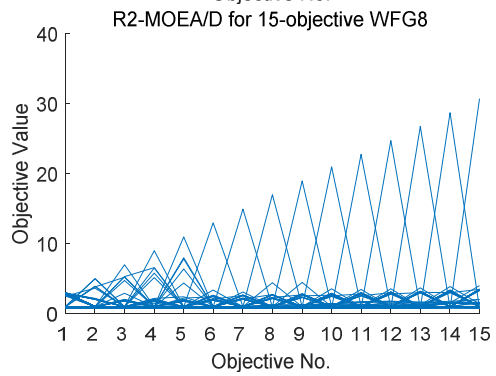
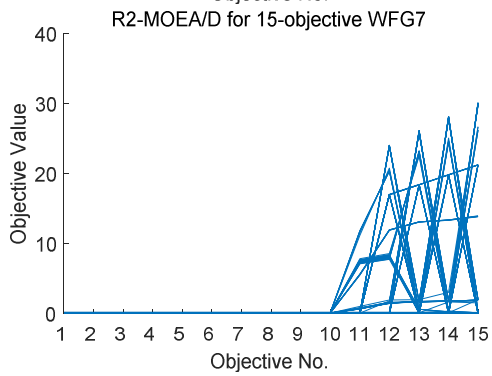
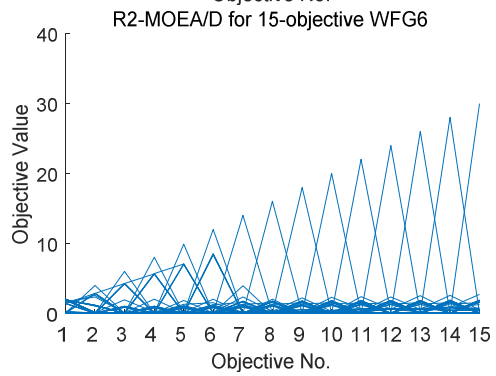
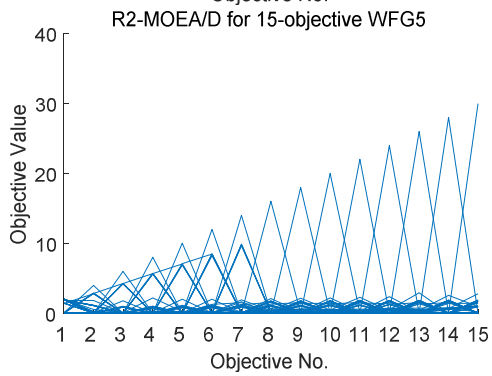
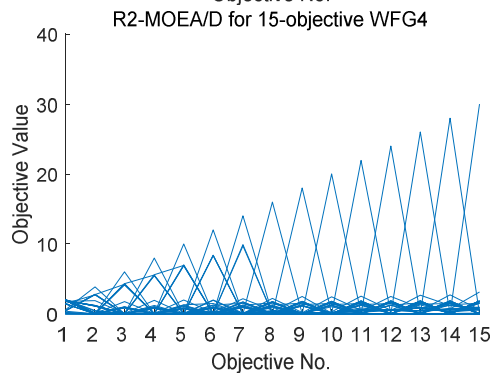
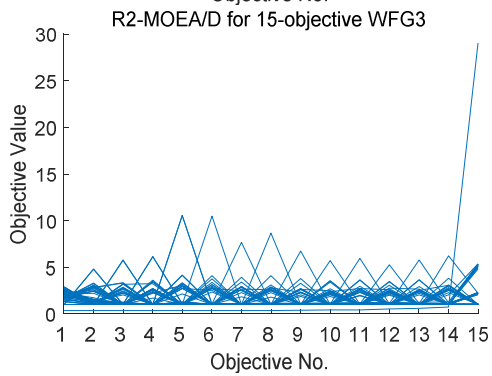
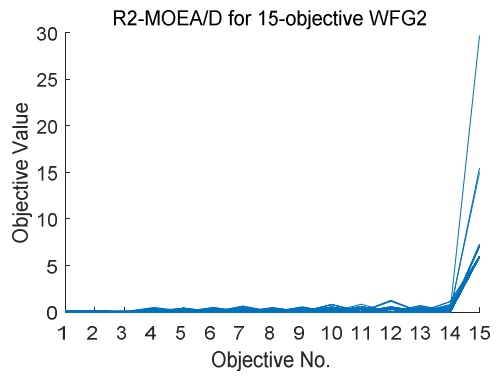
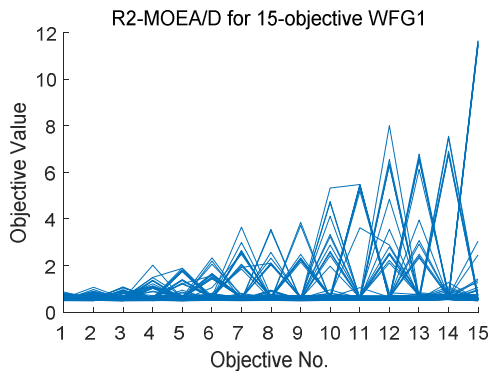
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This file includes:

Figures S1 to S5: In order to validate the experimental results, the supplementary material gives the obtained 15-objective approximation Pareto front. The distribution of the approximation Pareto front depends on the distribution of reference vector and the geometry of the Pareto front.





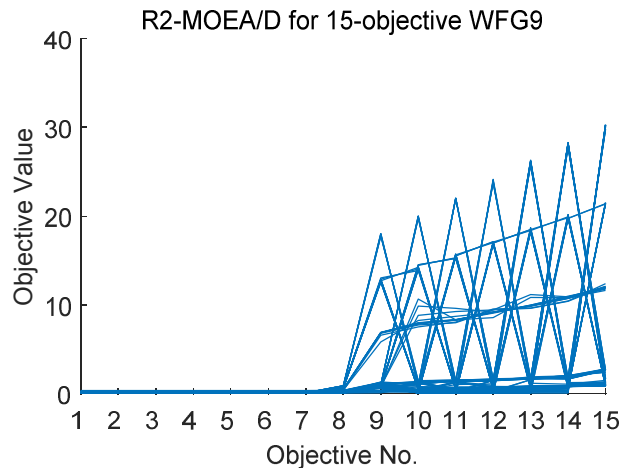
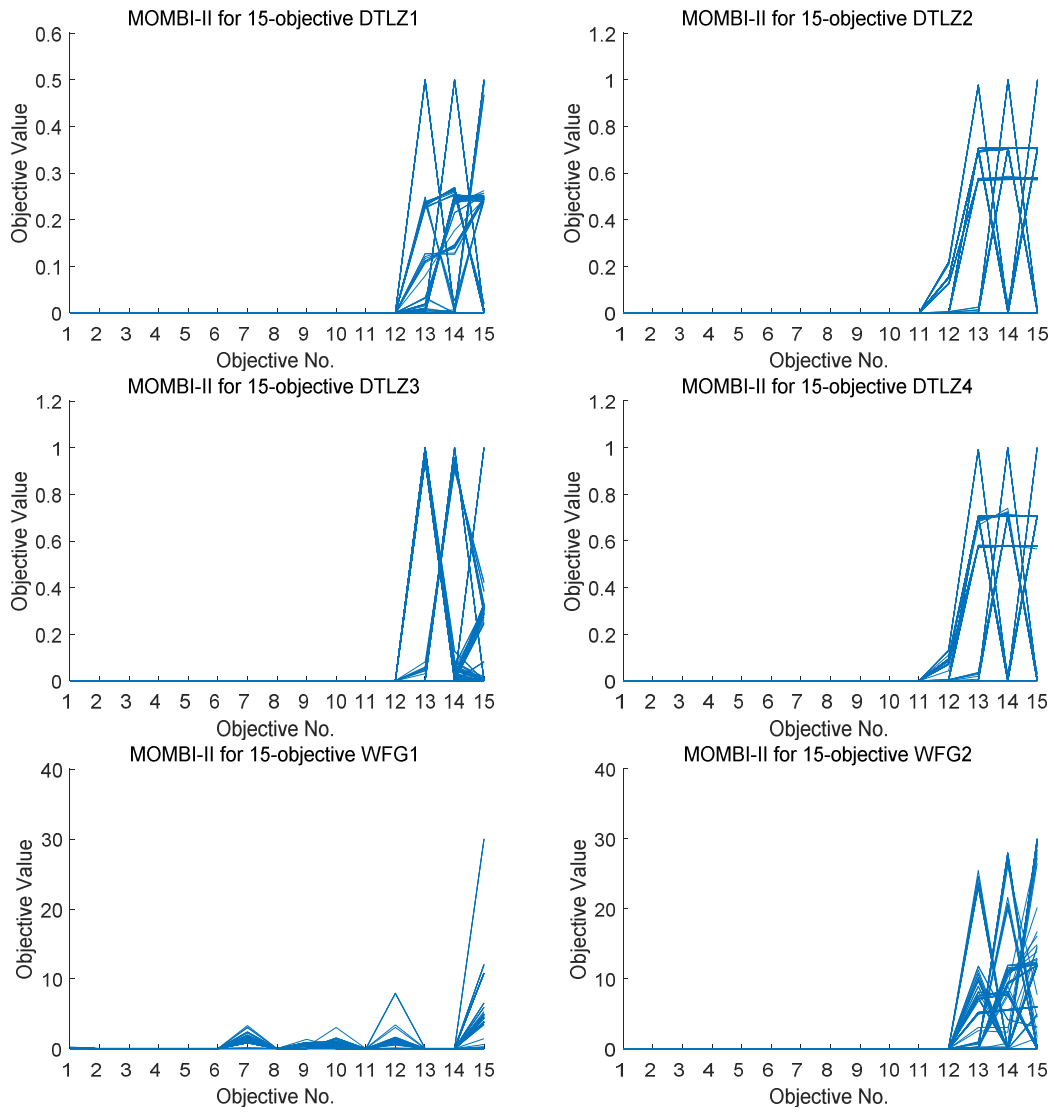


Figure S1. R2-MOEA/D for the 15-objective DTLZ and WFG test instances



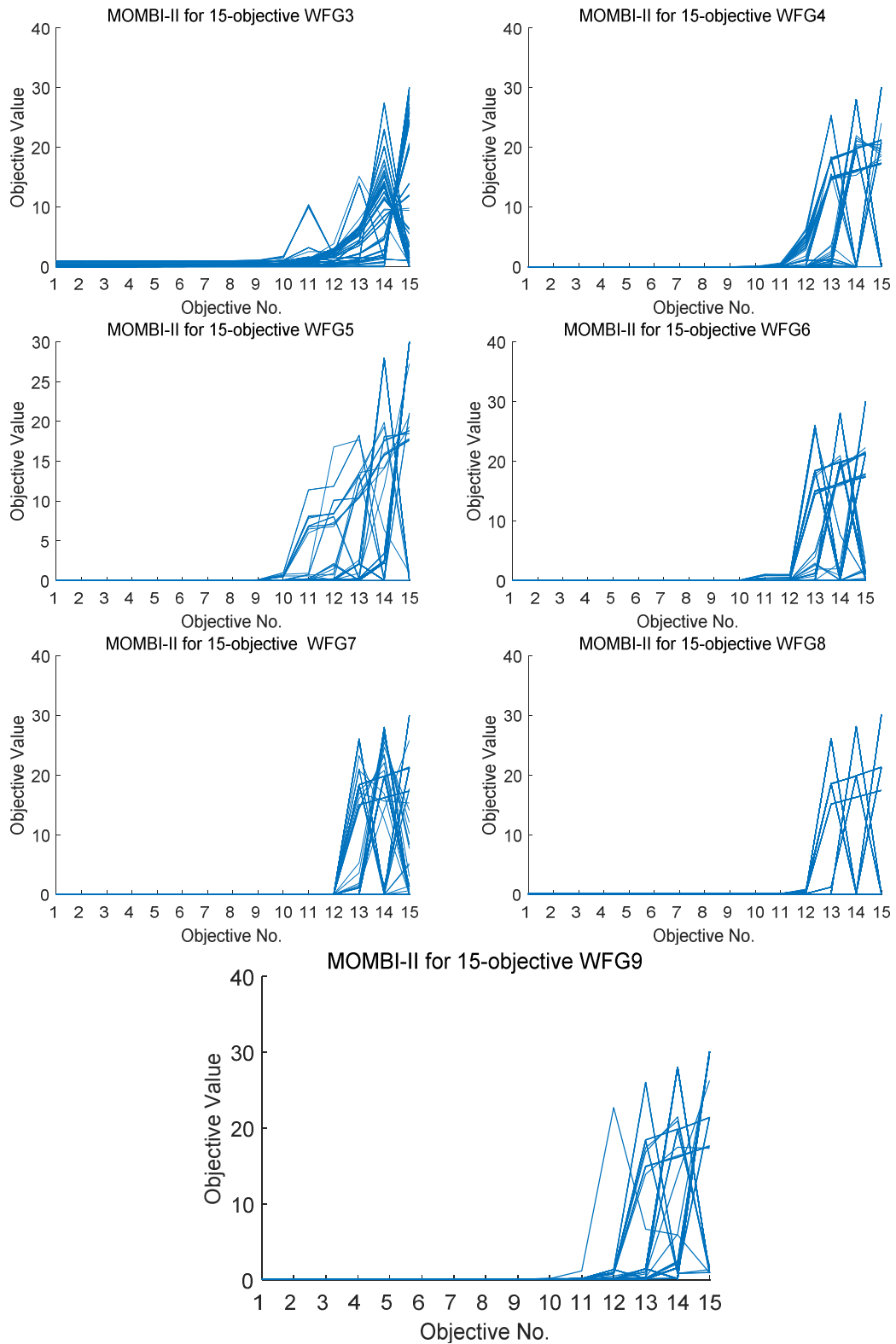
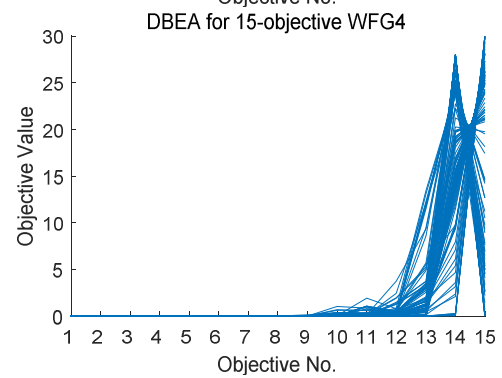
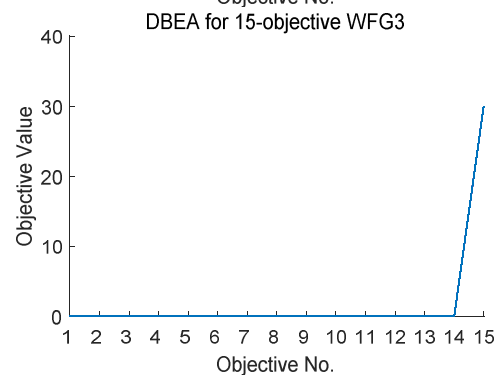
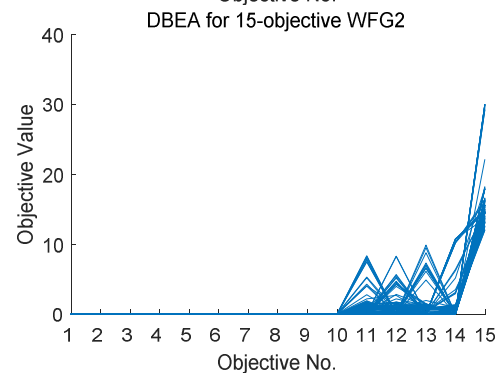
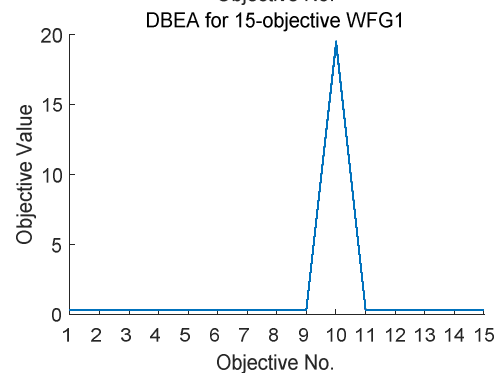
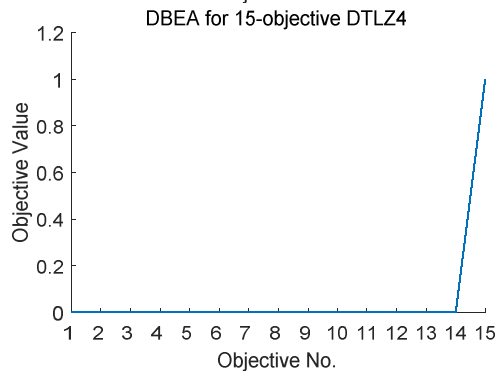
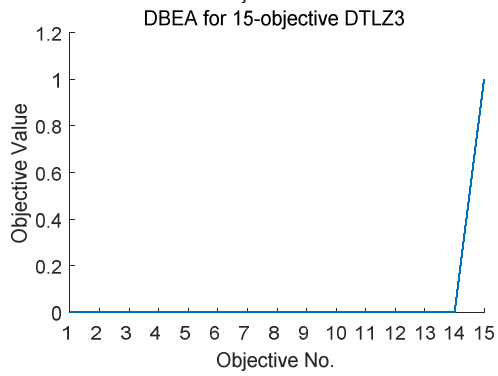
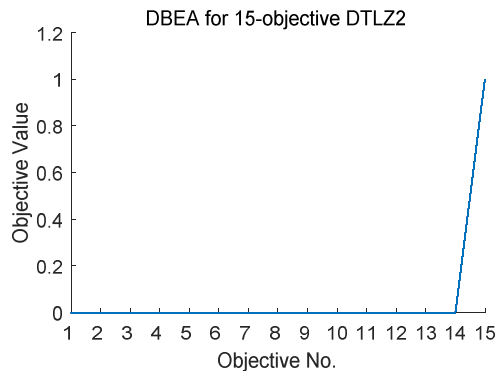
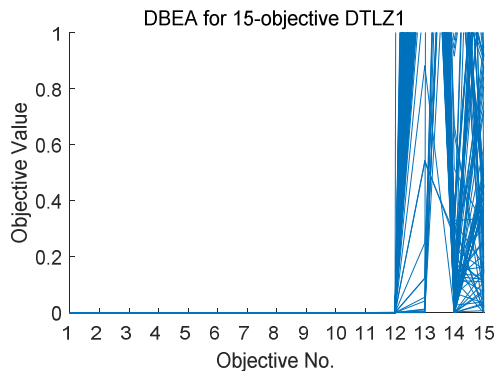


Figure S2. MOMBI-II for the 15-objective DTLZ and WFG test instances



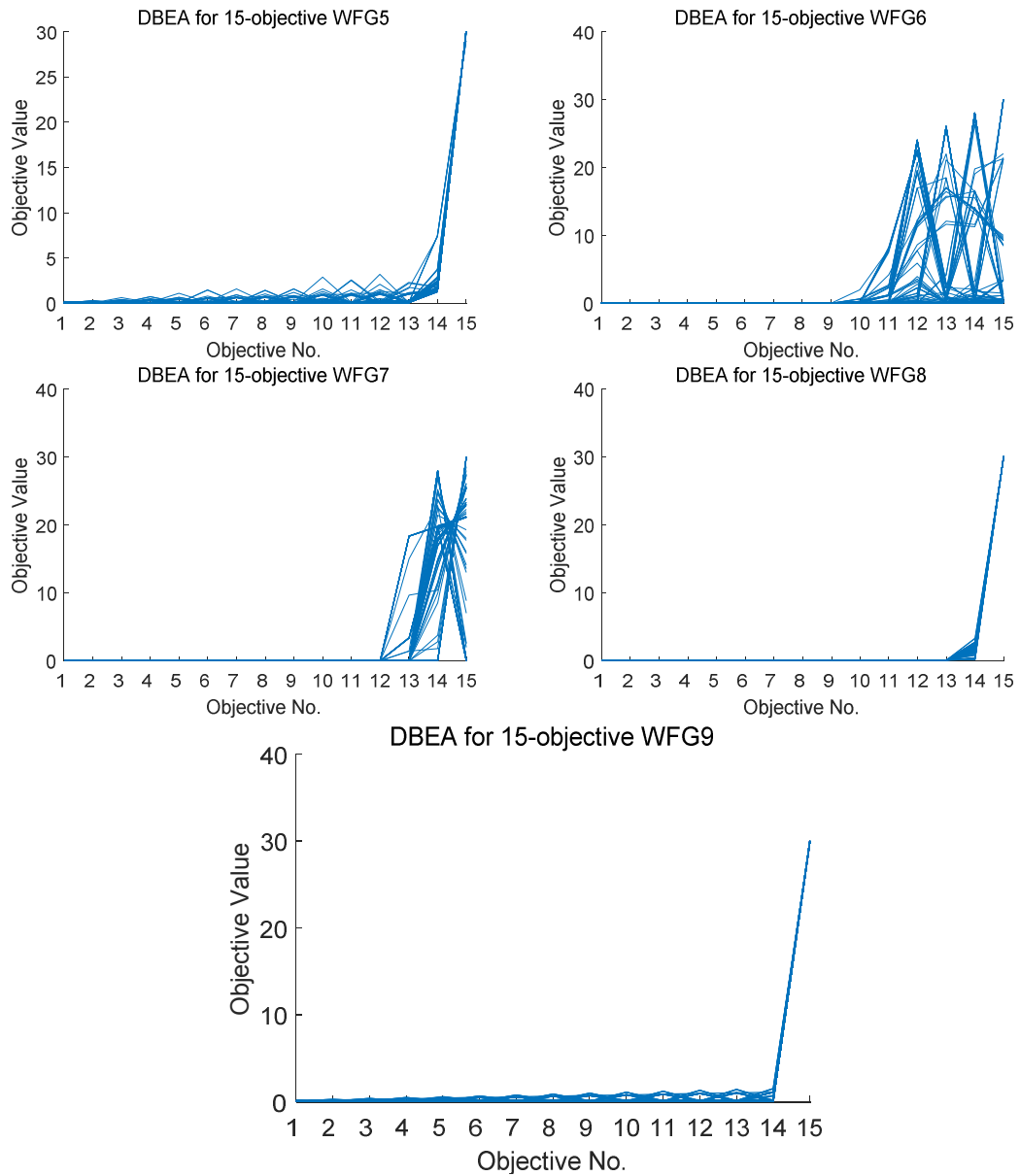
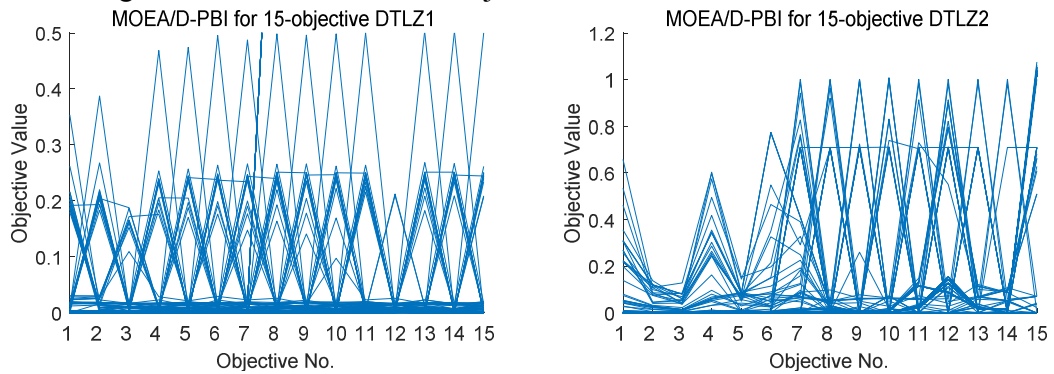
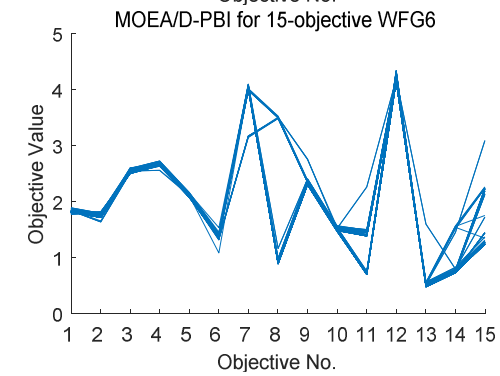
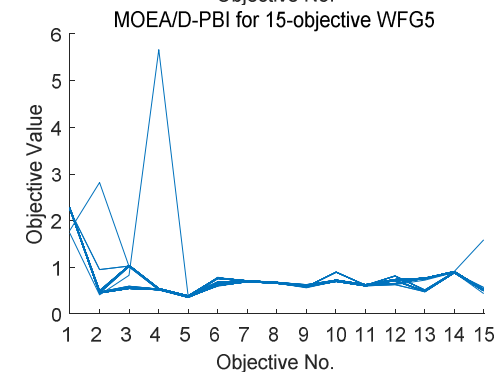
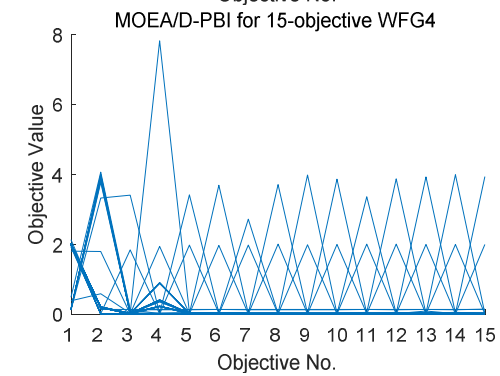
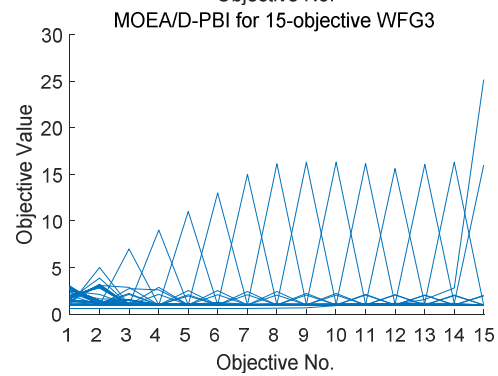
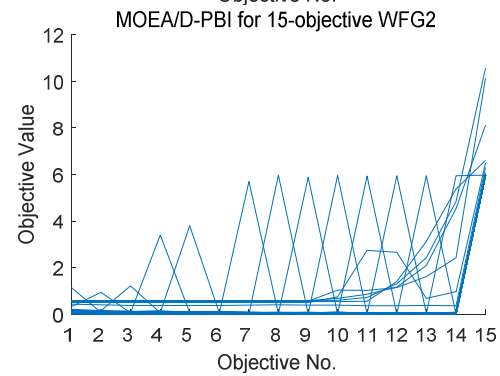
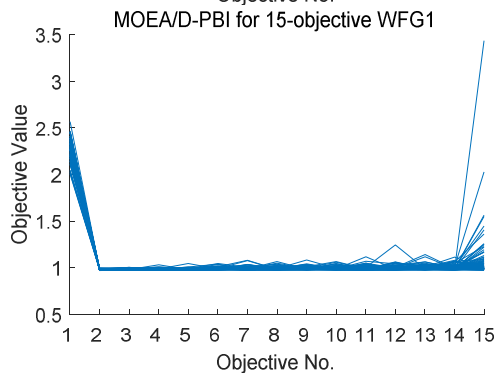
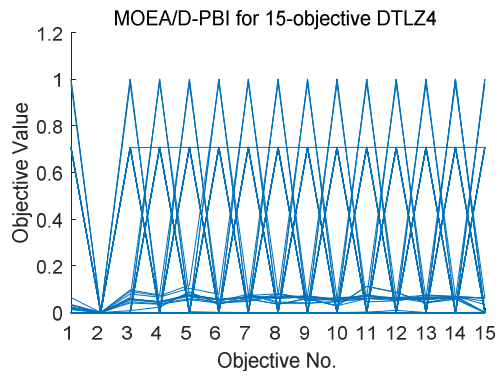
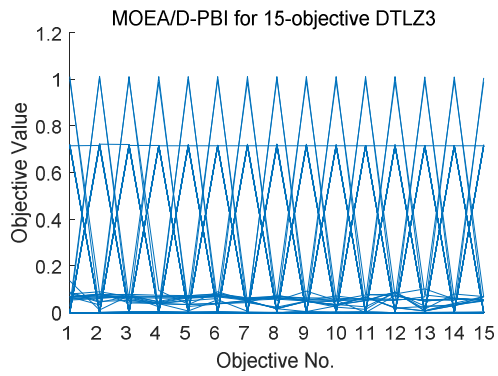


Figure S3. DBEA for the 15-objective DTLZ and WFG test instances





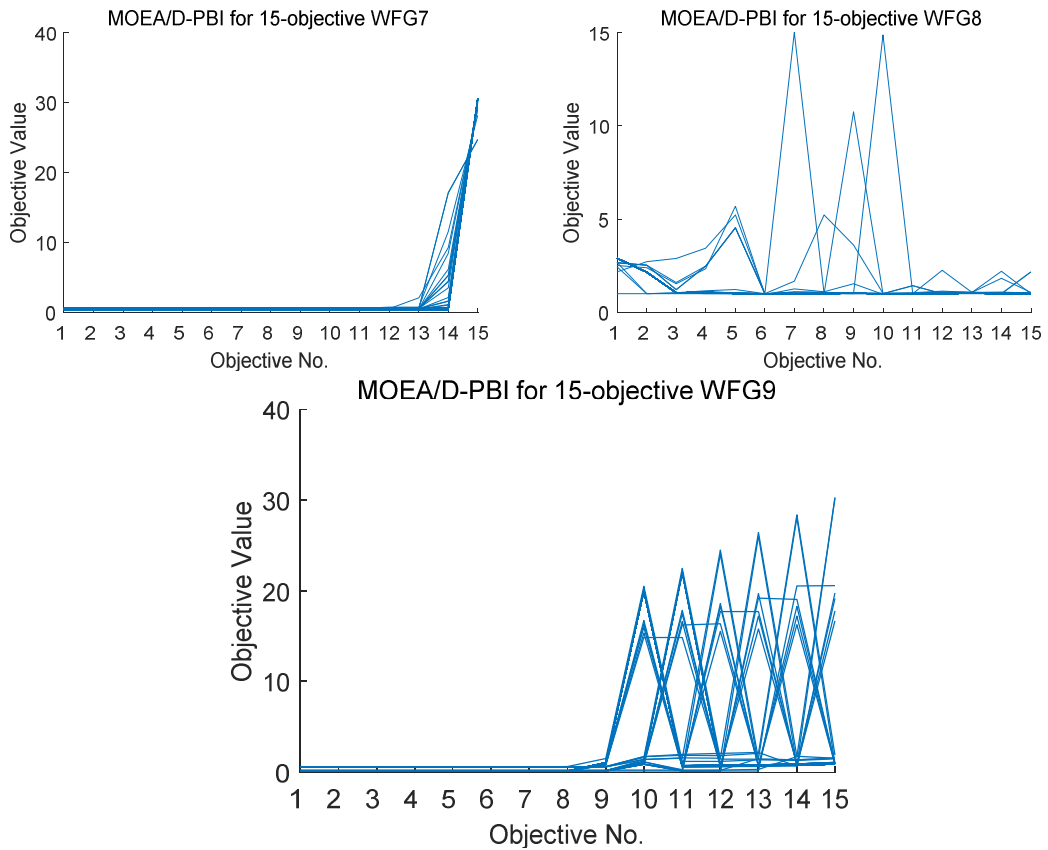
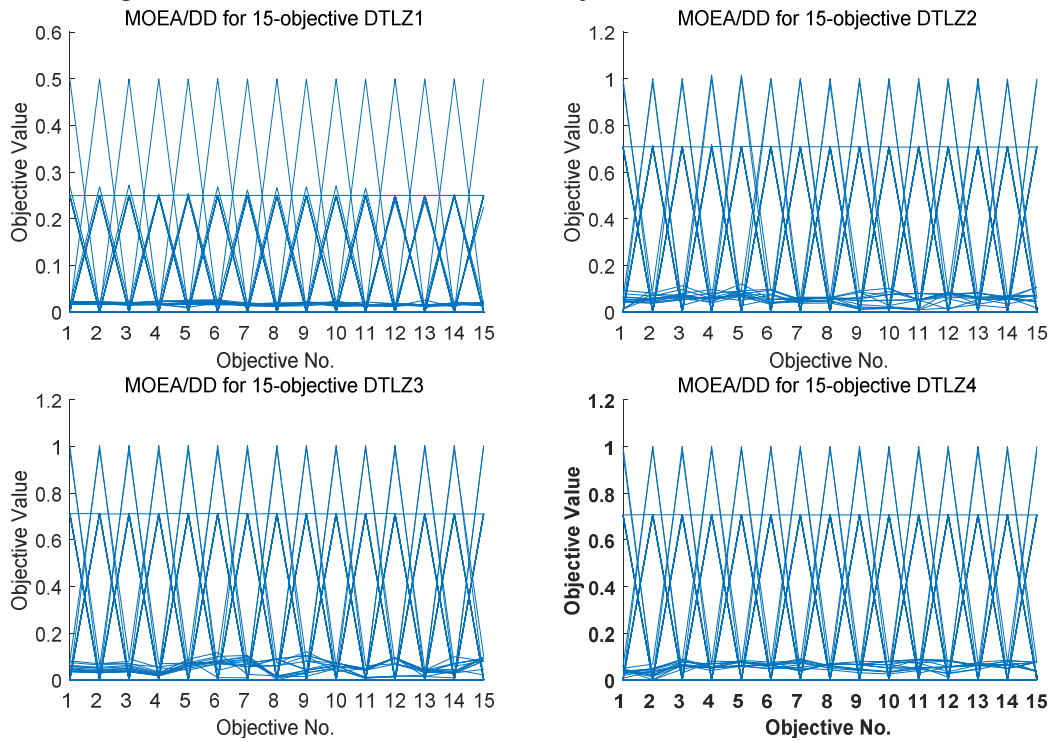
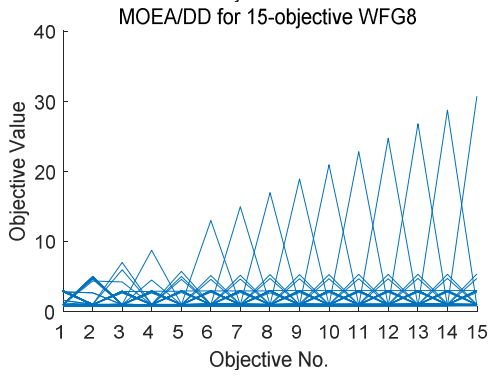
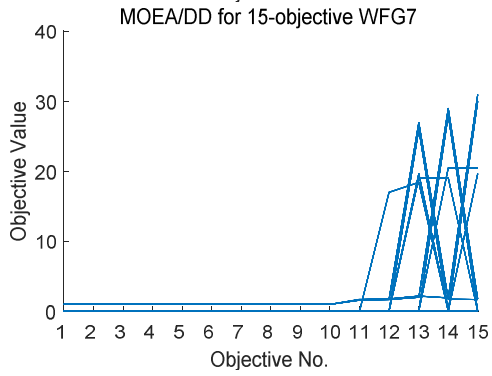
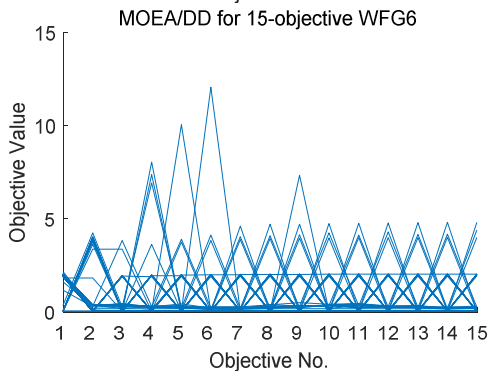
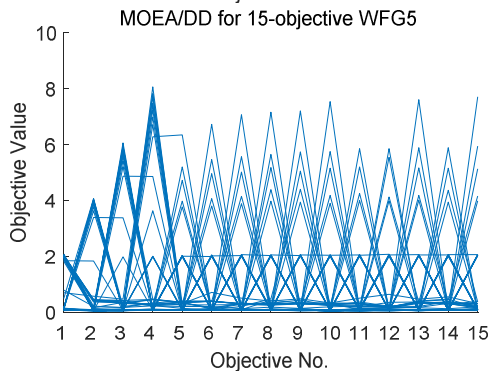
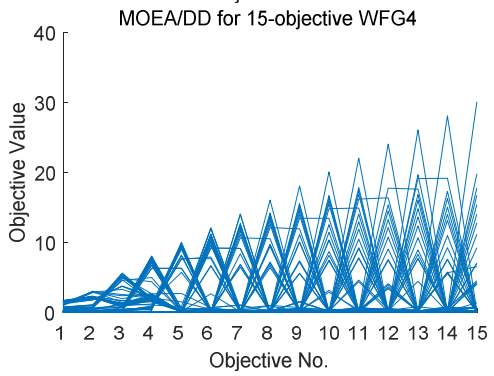
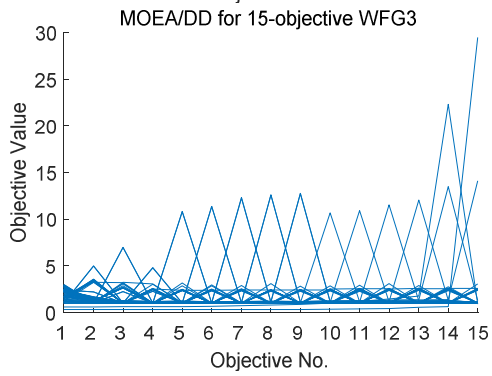
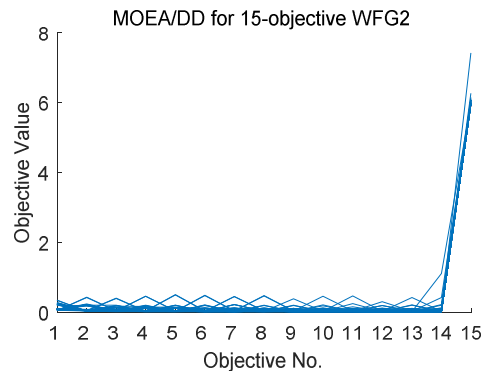
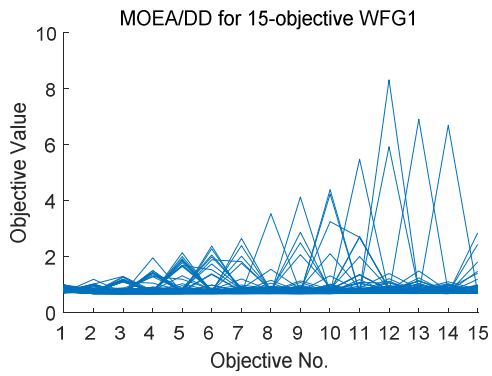


Figure S4. MOEA/D-PBI for the 15-objective DTLZ and WFG test instances





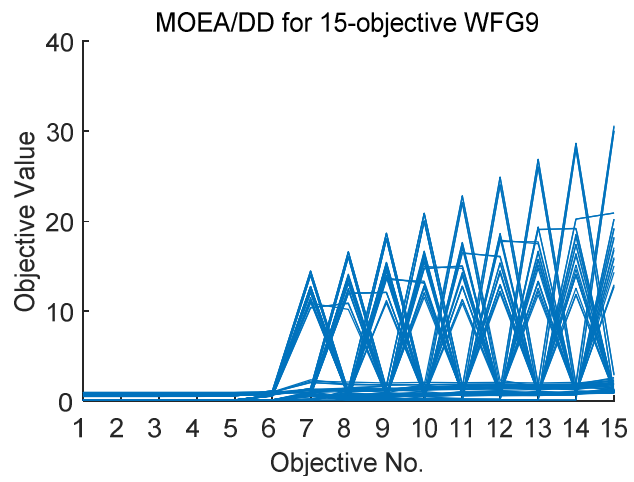


Figure S5. MOEA/DD for the 15-objective DTLZ and WFG test instances