Multi-objective evolutionary algorithms for optimal scheduling
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Curriculum Vitae

Yali Wang was born in Baiyin, China. She received her BSc of Computer Science at Wuhan University, China in 1997. After that, she worked first as a software engineer and then as a configuration management officer in H3C Technologies Co., Limited, Beijing, China. In 2015, she came to the Netherlands and completed her MSc at Leiden Institute of Advanced Computer Science (LIACS), Leiden University in 2017. Right after, she worked as a PhD at the same university under the supervision of Michael Emmerich and Thomas Bäck. Her research interests include multi-objective optimization, evolutionary algorithm, scheduling optimization, prediction-based optimization, preference based multi-objective optimization and dynamic optimization.
Acronyms

AP-DI-MOEA
Automatic Preference based Diversity Indicator-based Multi-objective Evolutionary Algorithm

DF
Desirability Function

DI-MOEA
Diversity Indicator-based Multi-objective Evolutionary Algorithm

DM
Decision Maker

DRS
Dominance Resistant Solution

EA
Evolutionary Algorithm

EAF
Empirical Attainment Function

EMO
Evolutionary Multi-objective Optimization

EMOA
Evolutionary Multi-objective Optimization Algorithm

EP
Evolutionary Programming

ES
Evolution Strategy
Acronyms

**FJSP**
Flexible Job shop Scheduling Problem

**GA**
Genetic Algorithm

**GD**
Generational Distance

**GI**
Gap Indicator

**GP**
Genetic Programming

**HV**
Hypervolume

**IBEA**
Indicator-based Evolutionary Algorithm

**IGD**
Inverted Generational Distance

**JSP**
Job shop Scheduling Problem

**MIP-EGO**
Mixed integer, Parallel - Efficient Global Optimization

**MOEA**
Multi-objective Evolutionary Algorithm

**MOFJSP**
Multi-objective Flexible Job shop Scheduling Problem

**MOO**
Multi-Objective Optimization

**MOP**
Multi-objective Optimization Problem

**MOVFMSO**
Multi-objective Vehicle Fleet Maintenance Scheduling Optimization
NE
Number of Evaluations

NSGA-II
Non-dominated Sorting Genetic Algorithm II

NSGA-III
Non-dominated Sorting Genetic Algorithm III

PF
Pareto Front

ROI
Region of Interest

RUL
Remaining Useful Lifetime

SMS-EMOA
S-Metric Selection Evolutionary Multi-Objective Algorithm

VFMSO
Vehicle Fleet Maintenance Scheduling Optimization