
Contents

Parameter Setting in EAs: a 30 Year Perspective <i>Kenneth De Jong</i>	1
Parameter Control in Evolutionary Algorithms <i>A.E. Eiben, Z. Michalewicz, M. Schoenauer, J.E. Smith</i>	19
Self-Adaptation in Evolutionary Algorithms <i>Silja Meyer-Nieberg, Hans-Georg Beyer</i>	47
Adaptive Strategies for Operator Allocation <i>Dirk Thierens</i>	77
Sequential Parameter Optimization Applied to Self- Adaptation for Binary-Coded Evolutionary Algorithms <i>Mike Preuss, Thomas Bartz-Beielstein</i>	91
Combining Meta-EAs and Racing for Difficult EA Parameter Tuning Tasks <i>Bo Yuan, Marcus Gallagher</i>	121
Genetic Programming: Parametric Analysis of Structure Altering Mutation Techniques <i>Alan Piszcz and Terence Soule</i>	143
Parameter Sweeps for Exploring Parameter Spaces of Genetic and Evolutionary Algorithms <i>Michael E. Samples, Matthew J. Byom, Jason M. Daida</i>	161
Adaptive Population Sizing Schemes in Genetic Algorithms <i>Fernando G. Lobo, Cláudio F. Lima</i>	185

Population Sizing to Go: Online Adaptation Using Noise and Substructural Measurements <i>Tian-Li Yu, Kumara Sastry, David E. Goldberg</i>	205
Parameter-less Hierarchical Bayesian Optimization Algorithm <i>Martin Pelikan, Alexander Hartmann, and Tz-Kai Lin</i>	225
Evolutionary Multi-Objective Optimization Without Additional Parameters <i>Kalyanmoy Deb</i>	241
Parameter Setting in Parallel Genetic Algorithms <i>Erick Cantú-Paz</i>	259
Parameter Control in Practice <i>Zbigniew Michalewicz, Martin Schmidt</i>	277
Parameter Adaptation for GP Forecasting Applications <i>Neal Wagner, Zbigniew Michalewicz</i>	295
Index	311



<http://www.springer.com/978-3-540-69431-1>

Parameter Setting in Evolutionary Algorithms

Lobo, F.J.; Lima, C.F.; Michalewicz, Z. (Eds.)

2007, XII, 318 p. 100 illus., Hardcover

ISBN: 978-3-540-69431-1