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Sections

Publications

*A Benchmark Set Extension and Comparative Study for the HyFlex Framework*

- Publication date: 2015
- First Named Author: S. Adriaensen
- Secondary Authors: Ochoa, G; Nowe, A
- Publication Type: Conference Proceeding / Conference Paper
- Is Published: Yes

**Identifiers:**

- Data Source
- PubMed ID
- Digital ID
- ISSN (Print)
- ISSN (Digital)
- ISSN (Linking)

*Evolutionary Computation in Combinatorial Optimization*

- Publication date: April 2015
- First Named Author: Heilig, L
- Secondary Authors (18): Rebreyend, P; Hu, B; Prandtstetter, M; Biesinger, B; Gunawan, A; He, J; Desell, T; Joshi, A; Suciu, ...
- Publication Type: Book (Edited)
- Is Published: Yes
Search with evolutionary ruin and stochastic rebuild: A theoretic framework and a case study on exam timetabling

Publication date: 2015
First Named Author: Li J
Secondary Authors: Bai R, Shen Y, Qu R
Publication Type: Journal Article / Review
Is Published: Yes
Journal: European Journal of Operational Research (V: 242, #: 3, Pg: 798-806)

Identifiers:
PubMed ID
Digital ID: 10.1016/j.ejor.2014.11.002
ISSN (Print)
ISSN (Digital): 03772217
ISSN (Linking)

Empirical evaluation of pareto efficient multi-objective regression test case prioritisation

Publication date: 2015
First Named Author: Epitropakis M
Secondary Authors: Yoo S, Harman M, Burke E
Publication Type: Conference Proceeding / Conference Paper
Is Published: Yes

Identifiers:
PubMed ID
Digital ID: 10.1145/2771783.2771788
ISSN (Print)
ISSN (Digital)
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The 'Blackboard Pattern' for Metaheuristics
Publication date: 2015
First Named Author: Graham K
Secondary Authors: Swan J, Martin S
Publication Type: Conference Proceeding / Conference Paper
Is Published: Yes

Identifiers:
PubMed ID
Digital ID: 10.1145/2739482.2768500
ISSN (Print)
ISSN (Digital)
ISSN (Linking)

Contrasting meta-learning and hyper-heuristic research: the role of evolutionary algorithms
Publication date: 2013
An Integer Linear Programming approach to the single and bi-objective Next Release Problem

Publication date 2015
First Named Author Veerapen N
Secondary Authors Ochoa G, Harman M, Burke E
Publication Type Journal Article / Review
Is Published Yes
Journal Information and Software Technology (V: 65, #: , Pg: 1-13)

Identifiers:
PubMed ID
Digital ID 10.1016/j.infsof.2015.03.008
ISSN (Print)
ISSN (Digital) 09505849
ISSN (Linking)
### Population-based Algorithm Portfolios with automated constituent algorithms selection

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<td>Secondary Authors</td>
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<td>Information Sciences (V: 279, #: , Pg: 94-104)</td>
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**Identifiers:**

- PubMed ID
- Digital ID: 10.1016/j.ins.2014.03.105
- ISSN (Print): 00200255
- ISSN (Digital)
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### The optimisation of stochastic grammars to enable cost-effective probabilistic structural testing

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**Identifiers:**

- PubMed ID
- Digital ID: 10.1016/j.jss.2014.11.042

- Submitted on, 10 Mar 2017

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An empirical evaluation of ensemble adjustment methods for analogy-based effort estimation

Publication date 2015
First Named Author Azzeh M
Secondary Authors Nassif A, Minku L
Publication Type Journal Article / Review
Is Published Yes
Journal Journal of Systems and Software (V: 103, #: , Pg: 36-52)

Identifiers:
PubMed ID
Digital ID 10.1016/j.jss.2015.01.028
ISSN (Print)
ISSN (Digital) 01641212
ISSN (Linking)

Cooperative Co-Evolution With Differential Grouping for Large Scale Optimization

Publication date 2014
First Named Author Omidvar M
Secondary Authors Li X, Mei Y, Yao X
Publication Type Journal Article / Review
Is Published Yes
Convex Hull-Based Multiobjective Genetic Programming for Maximizing Receiver Operating Characteristic Performance

Publication date: 2015
First Named Author: Pu Wang
Secondary Authors: Emmerich M, Rui Li, Ke Tang, Back T, Xin Yao
Publication Type: Journal Article / Review
Is Published: Yes
Journal: IEEE Transactions on Evolutionary Computation (V: 19, #: 2, Pg: 188-200)

Two Archive: An Improved Two-Archive Algorithm for Many-Objective Optimization

Publication date: 2015
Resampling-Based Ensemble Methods for Online Class Imbalance Learning

First Named Author          Handing Wang
Secondary Authors            Licheng Jiao, Xin Yao
Publication Type             Journal Article / Review
Is Published                 Yes
Journal                      IEEE Transactions on Evolutionary Computation (V: 19, #: 4, Pg: 524-541)

Identifiers:
PubMed ID
Digital ID                    10.1109/TEVC.2014.2350987
ISSN (Print)                  1941-0026
ISSN (Digital)                1089-778X
ISSN (Linking)

Resampling-Based Ensemble Methods for Online Class Imbalance Learning

Publication date              2015
First Named Author            Wang S
Secondary Authors             Minku L, Yao X
Publication Type             Journal Article / Review
Is Published                 Yes
Journal                      IEEE Transactions on Knowledge and Data Engineering (V: 27, #: 5, Pg: 1356-1368)

Identifiers:
PubMed ID
Digital ID                    10.1109/TKDE.2014.2345380
ISSN (Print)                  1041-4347
ISSN (Digital)                1041-4347
ISSN (Linking)

- Submitted on, 10 Mar 2017
Page 10 of 132
Graph-Based Approaches for Over-Sampling in the Context of Ordinal Regression

Publication date 2015
First Named Author Perez-Ortiz M
Secondary Authors Gutierrez P, Hervas-Martinez C, Yao X
Publication Type Journal Article / Review
Is Published Yes
Journal IEEE Transactions on Knowledge and Data Engineering (V: 27, #: 5, Pg: 1233-1245)

Identifiers:
PubMed ID
Digital ID 10.1109/TKDE.2014.2365780
ISSN (Print) 1041-4347
ISSN (Digital) 1041-4347
ISSN (Linking)

A Learning-to-Rank Approach to Software Defect Prediction

Publication date 2015
First Named Author Yang X
Secondary Authors Tang K, Yao X
Publication Type Journal Article / Review
Is Published Yes
Journal IEEE Transactions on Reliability (V: 64, #: 1, Pg: 234-246)

Identifiers:
PubMed ID
Digital ID 10.1109/TR.2014.2370891
Improved Evolutionary Algorithm Design for the Project Scheduling Problem Based on Runtime Analysis

Publication date: 2014
First Named Author: Minku L
Secondary Authors: Sudholt D, Xin Yao
Publication Type: Journal Article / Review
Is Published: Yes
Journal: IEEE Transactions on Software Engineering (V: 40, #: 1, Pg: 83-102)

Identifiers:
PubMed ID
Digital ID: 10.1109/TSE.2013.52
ISSN (Print): 1939-3520
ISSN (Digital): 0098-5589
ISSN (Linking)

Practical Combinatorial Interaction Testing: Empirical Findings on Efficiency and Early Fault Detection

Publication date: 2015
First Named Author: Petke J
Secondary Authors: Cohen M, Harman M, Yoo S
Publication Type: Journal Article / Review
Is Published: Yes
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### Reducing Energy Consumption Using Genetic Improvement

- **Publication date**: 2015
- **First Named Author**: Bruce, R
- **Secondary Authors**: Petke, J; Harman, M
- **Publication Type**: Conference Proceeding / Conference Paper
- **Is Published**: Yes

### Identifiers:

- Data Source
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- ISSN (Linking)

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### Improving CUDA DNA Analysis Software with Genetic Programming

- **Publication date**: 2015
- **First Named Author**: Langdon, W B
- **Secondary Authors**: Lam, B; Petke, J; Harman, M
- **Publication Type**: Conference Proceeding / Conference Paper
- **Is Published**: Yes

### Identifiers:

- Data Source
- ISSN (Print)
- ISSN (Digital)
A MULTI-AGENT BASED COOPERATIVE APPROACH TO SCHEDULING AND ROUTING

Publication date: 2016
First Named Author: Martin, S
Secondary Authors: Ouelhadj, D; Beullens, P; Ozcan, E; Juan, A; Burke, E K
Publication Type: Conference Proceeding / Conference Paper
Is Published: Yes

Identifiers:
Data Source
ISSN (Print)
ISSN (Digital)
ISSN (Linking)

Dynamic Software Project Scheduling through a Proactive-Rescheduling Method

Publication date: 2016
First Named Author: Shen X
Secondary Authors: Minku L, Bahsoon R, Yao X
Publication Type: Journal Article / Review
Is Published: Yes
Journal: IEEE Transactions on Software Engineering (V: 42, #: 7, Pg: 658-686)

Identifiers:
PubMed ID
Digital ID: 10.1109/TSE.2015.2512266
**QoS-aware long-term based service composition in cloud computing**

Publication date: 2015
First Named Author: Liu, S
Secondary Authors: Yao, X; Qin, A. K; Tang, K; Wei, Y
Publication Type: Conference Proceeding / Conference Paper
Is Published: Yes

**Heuristic optimisation for software project management with impacts of team efficiency**

Publication date: 2014
First Named Author: Jin, N
Secondary Authors: Yao, X
Publication Type: Conference Proceeding / Conference Paper
Is Published: Yes
The potential benefit of relevance vector machine to software effort estimation

Publication date 2014
First Named Author Song, L
Secondary Authors Minku, L. L; Yao, X
Publication Type Conference Proceeding / Conference Paper
Is Published Yes

Identifiers:
Data Source
ISSN (Print)
ISSN (Digital)
ISSN (Linking)

Learning Combinatorial Interaction Test Generation Strategies using Hyperheuristic Search

Publication date 2015
First Named Author Jia, Y
Secondary Authors Cohen, M. B; Harman, M; Petke, J
Publication Type Conference Proceeding / Conference Paper
Is Published Yes

Identifiers:
Data Source
ISSN (Print)
ISSN (Digital)
ISSN (Linking)
Testing Django Configurations Using Combinatorial Interaction Testing

Publication date 2015
First Named Author Petke, J
Other Authors
Publication Type Conference Proceeding / Conference Paper
Is Published Yes

Identifiers:
Data Source
ISSN (Print) 03029743
ISSN (Digital)
ISSN (Linking)

Search based software engineering for software product line engineering: a survey and directions for future work

Publication date 2014
First Named Author Harman, M
Secondary Authors Jia,Y;Krinke, J;Langdon, William B.;Petke, J;Zhang, Y
Publication Type Conference Proceeding / Conference Paper
Is Published Yes

Identifiers:
Data Source
ISSN (Print)
ISSN (Digital)
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Improving 3D medical image registration CUDA software with genetic programming
Genetic improvement for adaptive software engineering

Publication date: 2014
First Named Author: Harman, M
Secondary Authors: Jia, Y; Langdon, W B.; Petke, J; Yoo, S; Wu, F; Hemati Moghadam, I
Publication Type: Conference Proceeding / Conference Paper
Is Published: Yes
Identifiers:

Using Genetic Improvement & Code Transplants to Specialise a C++ Program to a Problem Class

Publication date: 2014
First Named Author: Petke, J

- Submitted on, 10 Mar 2017
Page 19 of 132
Efficiency and Early Fault Detection with Lower and Higher Strength Combinatorial Interaction Testing

Publication date 2013
First Named Author Petke, J
Secondary Authors Yoo, S; Cohen, M B.; Harman, M
Publication Type Conference Proceeding / Conference Paper
Is Published Yes

Identifiers:
Data Source
ISSN (Print) 03029743
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Search Based Software Engineering

Publication date 2013
First Named Author
Other Authors
Publication Type Book Chapter
Search with evolutionary ruin and stochastic rebuild: A theoretic framework and a case study on exam timetabling

Publication date 2015
First Named Author Li J
Secondary Authors Bai R, Shen Y, Qu R
Publication Type Journal Article / Review
Is Published Yes
Journal European Journal of Operational Research (V: 242, #: 3, Pg: 798-806)

Identifiers:
PubMed ID
Digital ID 10.1016/j.ejor.2014.11.002
ISSN (Print)
On parallel local search for permutations

Publication date 2014
First Named Author Riise A
Secondary Author Burke E
Publication Type Journal Article / Review
Is Published Yes
Journal Journal of the Operational Research Society (V: 66, #: 5, Pg: 822-831)

Identifiers:
PubMed ID
Digital ID 10.1057/jors.2014.29
ISSN (Print) 1476-9360
ISSN (Digital) 0160-5682
ISSN (Linking)

An Integer Linear Programming approach to the single and bi-objective Next Release Problem

Publication date 2015
First Named Author Veerapen N
Secondary Authors Ochoa G, Harman M, Burke E
Publication Type Journal Article / Review
Is Published Yes
Journal Information and Software Technology (V: 65, #: , Pg: 1-13)
Publication ID 10.1016/j.infsof.2015.03.008

- Submitted on, 10 Mar 2017
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**Identifiers:**

Data Source: CrossRef

Digital ID: 10.1016/j.infsof.2015.03.008

ISSN (Print):

ISSN (Digital): 09505849

ISSN (Linking):

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**How to Make Best Use of Cross-Company Data for Web Effort Estimation?**

Publication date: 2015

First Named Author: Minku L

Secondary Authors: Sarro F, Mendes E, Ferrucci F

Publication Type: Conference Proceeding / Conference Paper

Is Published: Yes

**Identifiers:**

PubMed ID

Digital ID: 10.1109/ESEM.2015.7321199

ISSN (Print)

ISSN (Digital)

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**A benchmark set extension and comparative study for the HyFlex framework**

Publication date: 2015

First Named Author: Adriaensen S

Secondary Authors: Ochoa G, Nowe A

Publication Type: Conference Proceeding / Conference Paper

- Submitted on, 10 Mar 2017

Page 24 of 132
Structural coherence of problem and algorithm: An analysis for EDAs on all 2-bit and 3-bit problems

Publication date 2015
First Named Author Brownlee A
Secondary Authors McCall J, Christie L
Publication Type Conference Proceeding / Conference Paper
Is Published Yes

Identifiers:
PubMed ID
Digital ID 10.1109/CEC.2015.7257139
ISSN (Print)
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Search-Based Software Engineering

Publication date 2015
First Named Author
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<td>Brownlee A</td>
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Embedded Dynamic Improvement

Publication date: 2015
First Named Author: Burles N
Secondary Authors: Swan J, Bowles E, Brownlee A, Kocsis Z, Veerapen N
Publication Type: Conference Proceeding / Conference Paper
Is Published: Yes

Identifiers:
PubMed ID
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Genetic Improvement of Energy Usage is only as Reliable as the Measurements are Accurate

Publication date: 2015
First Named Author: Haraldsson S
Secondary Author: Woodward J
Publication Type: Conference Proceeding / Conference Paper
Is Published: Yes

Identifiers:
PubMed ID
Digital ID: 10.1145/2739482.2768421
ISSN (Print)
Fitness as Task-relevant Information Accumulation

Publication date 2015
First Named Author Johnson C
Secondary Author Woodward J
Publication Type Conference Proceeding / Conference Paper
Is Published Yes

Identifiers:
PubMed ID
Digital ID 10.1145/2739482.2768428
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ISSN (Digital)
ISSN (Linking)

Generating Easy and Hard Problems using the Proximate Optimality Principle

Publication date 2015
First Named Author McCall J
Secondary Authors Christie L, Brownlee A
Publication Type Conference Proceeding / Conference Paper
Is Published Yes

Identifiers:
PubMed ID
Digital ID 10.1145/2739482.2764890
ISSN (Print)

- Submitted on, 10 Mar 2017
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Constrained, mixed-integer and multi-objective optimisation of building designs by NSGA-II with fitness approximation

Publication date 2015
First Named Author Brownlee A
Secondary Author Wright J
Publication Type Journal Article / Review
Is Published Yes

Search-Based Software Engineering
Publication date 2015
First Named Author
Other Authors
Publication Type Book Chapter
Chapter Title Transformed Vargha-Delaney Effect Size
Chapter Number 29
Chapter Pages 318-324
Chapter Author Neumann G
Is Published Yes

Identifiers:
PubMed ID
Digital ID 10.1007/978-3-319-22183-0_29
ISSN (Print) 1611-3349
ISSN (Digital) 0302-9743
ISSN (Linking)
Memetic search for the quadratic assignment problem

Publication date 2015
First Named Author Benlic U
Secondary Author Hao J
Publication Type Journal Article / Review
Is Published Yes
Journal Expert Systems with Applications (V: 42, #: 1, Pg: 584-595)

Identifiers:
PubMed ID
Digital ID 10.1016/j.eswa.2014.08.011
ISSN (Print)
ISSN (Digital) 09574174
ISSN (Linking)

Surgical scheduling with simultaneous employment of specialised human resources

Publication date 2015
First Named Author Silva T
Secondary Authors de Souza M, Saldanha R, Burke E

- Submitted on, 10 Mar 2017
Page 31 of 132
A hybrid genetic algorithm for a two-stage stochastic portfolio optimization with uncertain asset prices

Publication date 2015
First Named Author Cui T
Secondary Authors Bai R, Parkes A, He F, Qu R, Li J
Publication Type Conference Proceeding / Conference Paper
Is Published Yes

Identifiers:
PubMed ID
Digital ID 10.1109/CEC.2015.7257198
ISSN (Print)
ISSN (Digital)
ISSN (Linking)

Bio-Inspired Computing -- Theories and Applications
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Search-Based Software Engineering

Publication date: 2015
First Named Author
Other Authors
Publication Type: Book Chapter
Chapter Title: Inferring Test Models from Kate's Bug Reports Using Multi-objective Search
Chapter Number: 27
Chapter Pages: 301-307
Chapter Author: Zhang Y
Is Published: Yes

Identifiers:
PubMed ID
Digital ID: 10.1007/978-3-319-22183-0_27
ISSN (Print): 1611-3349
ISSN (Digital): 0302-9743
ISSN (Linking)

Trivial Compiler Equivalence: A Large Scale Empirical Study of a Simple, Fast and Effective Equivalent Mutant Detection Technique

Publication date: 2015
First Named Author: Papadakis M
Secondary Authors: Jia Y, Harman M, Le Traon Y
Publication Type: Conference Proceeding / Conference Paper
Is Published: Yes

Identifiers:
- Submitted on, 10 Mar 2017
Page 36 of 132
Automated software transplantation

Publication date 2015
First Named Author Barr E
Secondary Authors Harman M, Jia Y, Marginean A, Petke J
Publication Type Conference Proceeding / Conference Paper
Is Published Yes

Identifiers:
PubMed ID
Digital ID 10.1145/2771783.2771796
ISSN (Print)
ISSN (Digital)
ISSN (Linking)

Feature lifecycles as they spread, migrate, remain, and die in App Stores

Publication date 2015
First Named Author Sarro F
Secondary Authors Al-Subaihin A, Harman M, Jia Y, Martin W, Zhang Y
Publication Type Conference Proceeding / Conference Paper
Is Published Yes

Identifiers:
Achievements, Open Problems and Challenges for Search Based Software Testing

Publication date 2015
First Named Author Harman M
Secondary Authors Jia Y, Zhang Y
Publication Type Conference Proceeding / Conference Paper
Is Published Yes

Identifiers:
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Digital ID 10.1109/RE.2015.7320410
ISSN (Print)
ISSN (Digital)
ISSN (Linking)

The App Sampling Problem for App Store Mining

Publication date 2015
First Named Author Harman, M
Secondary Authors Jia, Y; Sarro, F; Zhang, Y; Martin, W
Publication Type Conference Proceeding / Conference Paper
Is Published Yes

Identifiers:
**Deep Parameter Optimisation**

Publication date: 2015  
First Named Author: Wu F  
Secondary Authors: Weimer W, Harman M, Jia Y, Krinke J  
Publication Type: Conference Proceeding / Conference Paper  
Is Published: Yes

**Identifiers:**

PubMed ID

Digital ID: 10.1145/2739480.2754648

**Kernel Density Adaptive Random Testing**

Publication date: 2015  
First Named Author: Patrick M  
Secondary Author: Jia Y  
Publication Type: Conference Proceeding / Conference Paper  
Is Published: Yes

**Identifiers:**

PubMed ID

Digital ID: 10.1109/ICSTW.2015.7107451
Mutation testing of memory-related operators

Publication date 2015
First Named Author Nanavati J
Secondary Authors Wu F, Harman M, Jia Y, Krinke J
Publication Type Conference Proceeding / Conference Paper
Is Published Yes

Identifiers:
PubMed ID
Digital ID 10.1109/ICSTW.2015.7107449

Developer Recommendation for Crowdsourced Software Development Tasks

Publication date 2015
First Named Author Mao K
Secondary Authors Yang Y, Wang Q, Jia Y, Harman M
Publication Type Conference Proceeding / Conference Paper
Is Published Yes

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Search-Based Software Engineering

Publication date 2015

First Named Author

Other Authors

Publication Type Book Chapter

Chapter Title Grow and Serve: Growing Django Citation Services Using SBSE

Chapter Number 22

Chapter Pages 269-275

Chapter Author Jia Y

Is Published Yes

Identifiers:

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Digital ID 10.1007/978-3-319-22183-0_22

ISSN (Print) 1611-3349

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Search-Based Software Engineering

Publication date 2015

First Named Author

Other Authors

Publication Type Book Chapter

Chapter Title Automated Transplantation of Call Graph and Layout Features into Kate

- Submitted on, 10 Mar 2017

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**Search-Based Software Engineering**

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- Submitted on, 10 Mar 2017
  Page 43 of 132
Search-Based Software Engineering

Publication date: 2015
First Named Author: [First Name] M
Other Authors: [Other Authors]
Publication Type: Book Chapter
Chapter Title: Exploring the Landscape of Non-Functional Program Properties Using Spatial Analysis
Chapter Number: 31
Chapter Pages: 332-338
Chapter Author: [Author Name]
Is Published: Yes

Identifiers:
PubMed ID
Digital ID: 10.1007/978-3-319-22183-0_31
ISSN (Print): 1611-3349
ISSN (Digital): 0302-9743
ISSN (Linking):

App store mining and analysis

Publication date: 2015
First Named Author: Al-Subaihin A
Secondary Authors: Finkelstein A, Harman M, Jia Y, Martin W, Sarro F, Zhang Y
Publication Type: Conference Proceeding / Conference Paper
Is Published: Yes

Identifiers:
PubMed ID
**A study of equivalent and stubborn mutation operators using human analysis of equivalence**

**Publication date** 2014  
**First Named Author** Yao X  
**Secondary Authors** Harman M, Jia Y  
**Publication Type** Conference Proceeding / Conference Paper  
**Is Published** Yes  

**Identifiers:**  
**PubMed ID**  
**Digital ID** 10.1145/2804345.2804346

**Angels and monsters**

**Publication date** 2014  
**First Named Author** Harman M  
**Secondary Authors** Jia Y, Reales Mateo P, Polo M  
**Publication Type** Conference Proceeding / Conference Paper  
**Is Published** Yes  

**Identifiers:**  
**PubMed ID**
Search based software engineering for software product line engineering

Publication date: 2014
First Named Author: Harman M
Secondary Authors: Jia Y, Krinke J, Langdon W, Petke J, Zhang Y
Publication Type: Conference Proceeding / Conference Paper
Is Published: Yes

Identifiers:

PubMed ID
Digital ID: 10.1145/2648511.2648513
ISSN (Print)
ISSN (Digital)
ISSN (Linking)

Genetic improvement for adaptive software engineering (keynote)

Publication date: 2014
First Named Author: Harman M
Secondary Authors: Jia Y, Langdon W, Petke J, Moghadam I, Yoo S, Wu F
Publication Type: Conference Proceeding / Conference Paper
Is Published: Yes

Identifiers:

PubMed ID
Publication Type: Book Chapter

Chapter Title: Less is More: Temporal Fault Predictive Performance over Multiple Hadoop Releases

Chapter Number: 19

Chapter Pages: 240-246

Chapter Author: Harman M

Is Published: Yes

Identifiers:

PubMed ID

Digital ID: 10.1007/978-3-319-09940-8_19

ISSN (Print): 1611-3349

ISSN (Digital): 0302-9743

ISSN (Linking)

Web Effort Estimation: Function Point Analysis vs. COSMIC

Publication date: 2016

First Named Author: Di Martino S

Secondary Authors: Ferrucci F, Gravino C, Sarro F

Publication Type: Journal Article / Review

Is Published: Yes

Journal: Information and Software Technology (V: 72, #: , Pg: 90-109)

Identifiers:

PubMed ID

Digital ID: 10.1016/j.infsof.2015.12.001

ISSN (Print)

ISSN (Digital): 09505849

ISSN (Linking)

- Submitted on, 10 Mar 2017

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**A parallel genetic algorithms framework based on Hadoop MapReduce**

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- Submitted on, 10 Mar 2017

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Exploiting prior-phase effort data to estimate the effort for the subsequent phases

Publication date 2014
First Named Author Ferrucci F
Secondary Authors Gravino C, Sarro F
Publication Type Conference Proceeding / Conference Paper
Is Published Yes

Identifiers:
PubMed ID
Digital ID 10.1145/2635868.2635898
ISSN (Print)
ISSN (Digital)
ISSN (Linking)

Conversion from IFPUG FPA to COSMIC: Within-vs Without-Company Equations

Publication date 2014
First Named Author Ferrucci F
Secondary Authors Gravino C, Sarro F
Cross- vs. within-company cost estimation studies revisited

Publication date 2014
First Named Author Mendes E
Secondary Authors Kalinowski M, Martins D, Ferrucci F, Sarro F
Publication Type Conference Proceeding / Conference Paper
Is Published Yes

Identifiers:
PubMed ID
Digital ID 10.1109/SEAA.2014.76
ISSN (Print)
ISSN (Digital)
ISSN (Linking)

Search-Based Software Engineering

Publication date 2015
First Named Author
Other Authors
Publication Type Book Chapter
Robust next release problem

Publication date 2014
First Named Author Li L
Secondary Authors Harman M, Letier E, Zhang Y
Publication Type Conference Proceeding / Conference Paper
Is Published Yes

Identifiers:
PubMed ID
Digital ID 10.1145/2576768.2598334
ISSN (Print)
ISSN (Digital)
ISSN (Linking)

Dynamic Software Project Scheduling through a Proactive-Rescheduling Method

Publication date 2016
First Named Author Shen X
Secondary Authors Minku L, Bahsoon R, Yao X
Publication Type Journal Article / Review
Is Published Yes
Journal IEEE Transactions on Software Engineering (V: 42, #: 7, Pg: 658-686)

Identifiers:
PubMed ID
Digital ID 10.1109/TSE.2015.2512266

- Submitted on, 10 Mar 2017
Page 54 of 132
**Heuristic optimization for software project management with impacts of team efficiency**

Publication date: 2014  
First Named Author: Jin N  
Secondary Author: Yao X  
Publication Type: Conference Proceeding / Conference Paper  
Is Published: Yes  

**Identifiers:**  
PubMed ID  
Digital ID: 10.1109/CEC.2014.6900527  
ISSN (Print)  
ISSN (Digital)  
ISSN (Linking)

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**The potential benefit of relevance vector machine to software effort estimation**

Publication date: 2014  
First Named Author: Song L  
Secondary Authors: Minku L, Yao X  
Publication Type: Conference Proceeding / Conference Paper  
Is Published: Yes  

**Identifiers:**  
PubMed ID
QoS-aware long-term based service composition in cloud computing

Publication date: 2015
First Named Author: Liu S
Secondary Authors: Wei Y, Tang K, Qin A, Yao X
Publication Type: Conference Proceeding / Conference Paper
Is Published: Yes

Next challenges for adaptive learning systems

Publication date: 2012
First Named Author: Zliobaite I
Secondary Authors: Bifet A, Gaber M, Gabrys B, Gama J, Minku L, Musial K
Publication Type: Journal Article / Review
Is Published: Yes
Journal: ACM SIGKDD Explorations Newsletter (V: 14, #: 1, Pg: 48)

Identifiers:

- PubMed ID
- Digital ID: 10.1145/2639490.2639510
- ISSN (Print)
- ISSN (Digital)
- ISSN (Linking)

- Digital ID: 10.1109/CEC.2015.7257311
- ISSN (Print)
- ISSN (Digital)
- ISSN (Linking)
An Empirical Study of Meta- and Hyper-Heuristic Search for Multi-Objective Release Planning

Publication date: 2014
First Named Author: Zhang, Y
Secondary Authors: Ochoa, G; Harman, M; Ruhe, G; Brinkkemper, S
Publication Type: Working Paper
Is Published: Yes

Identifiers:

Balancing Convergence and Diversity in Decomposition-Based Many-Objective Optimizers

Publication date: 2016
First Named Author: Yuan Y
Publication Type: Journal Article / Review
Is Published: Yes
Journal: IEEE Transactions on Evolutionary Computation (V: 20, #: 2, Pg: 180-198)

- Submitted on, 10 Mar 2017

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The 'composite' design pattern in metaheuristics

Publication date 2014
First Named Author Woodward J
Secondary Authors Swan J, Martin S
Publication Type Conference Proceeding / Conference Paper
Is Published Yes

Template method hyper-heuristics

Publication date 2014
First Named Author Woodward J
Secondary Author Swan J
Publication Type Conference Proceeding / Conference Paper
Is Published Yes
Rethinking Genetic Improvement Programming

Publication date: 2015
First Named Author: White D
Secondary Author: Singer J
Publication Type: Conference Proceeding / Conference Paper
Is Published: Yes

Identifiers:
PubMed ID
Digital ID: 10.1145/2598394.2609843

Regularity Model for Noisy Multiobjective Optimization.

Publication date: 2016
First Named Author: Wang H
Secondary Authors: Zhang Q, Jiao L, Yao X
Publication Type: Journal Article / Review
Is Published: Yes

Journal: IEEE transactions on cybernetics (V: 46, #: 9, Pg: 1997-2009)

Identifiers:
PubMed ID
Digital ID: 10.1145/2739482.2768426

- Submitted on, 10 Mar 2017
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Objective reduction based on nonlinear correlation information entropy

Publication date 2015
First Named Author Wang H
Secondary Author Yao X
Publication Type Journal Article / Review
Is Published Yes
Journal Soft Computing (V: 20, #: 6, Pg: 2393-2407)

Identifiers:
PubMed ID
Digital ID 10.1007/s00500-015-1648-y
ISSN (Print) 1433-7479
ISSN (Digital) 1432-7643
ISSN (Linking)

Genetic Programming
Publication date 2015
First Named Author
Other Authors
Publication Type Book Chapter
Chapter Title Templar – A Framework for Template-Method Hyper-Heuristics

- Submitted on, 10 Mar 2017
Page 60 of 132
Grammar-based generation of variable-selection heuristics for constraint satisfaction problems

Publication date: 2015
First Named Author: Sosa-Ascencio A
Secondary Authors: Ochoa G, Terashima-Marin H, Conant-Pablos S
Publication Type: Journal Article / Review
Is Published: Yes
Journal: Genetic Programming and Evolvable Machines (V: 17, #: 2, Pg: 119-144)

Identifiers:
PubMed ID
Digital ID: 10.1007/s10710-015-9249-1
ISSN (Print): 1573-7632
ISSN (Digital): 1389-2576
ISSN (Linking):

Mathematical modeling and multi-objective evolutionary algorithms applied to dynamic flexible job shop scheduling problems

Publication date: 2015
First Named Author: Shen X
Secondary Author: Yao X
Publication Type: Journal Article / Review
Is Published: Yes
Journal: Information Sciences (V: 298, #: , Pg: 198-224)

Identifiers:
PubMed ID
Digital ID: 10.1016/j.ins.2014.11.036
ISSN (Print)
The executable experimental template pattern for the systematic comparison of metaheuristics

Publication date 2014
First Named Author Neumann G
Secondary Authors Swan J, Harman M, Clark J
Publication Type Conference Proceeding / Conference Paper
Is Published Yes

Identifiers:
PubMed ID
Digital ID 10.1145/2598394.2609850
ISSN (Print)
ISSN (Digital)
ISSN (Linking)

Improving 3D medical image registration CUDA software with genetic programming

Publication date 2014
First Named Author Langdon W
Secondary Authors Modat M, Petke J, Harman M
Publication Type Conference Proceeding / Conference Paper
Is Published Yes

Identifiers:
PubMed ID
Digital ID 10.1145/2576768.2598244
Improving CUDA DNA Analysis Software with Genetic Programming

Publication date: 2015
First Named Author: Langdon W
Secondary Authors: Lam B, Petke J, Harman M
Publication Type: Conference Proceeding / Conference Paper
Is Published: Yes

Identifiers:
PubMed ID
Digital ID: 10.1145/2739480.2754652
ISSN (Print)
ISSN (Digital)
ISSN (Linking)

Grow and Graft a Better CUDA pknotsRG for RNA Pseudoknot Free Energy Calculation

Publication date: 2015
First Named Author: Langdon W
Secondary Author: Harman M
Publication Type: Conference Proceeding / Conference Paper
Is Published: Yes

Identifiers:
PubMed ID
Digital ID: 10.1145/2739482.2768418
Genetic Programming

Publication date 2014
First Named Author
Other Authors
Publication Type Book Chapter
Chapter Title Genetically Improved CUDA C Software
Chapter Number 8
Chapter Pages 87-99
Chapter Author Langdon W
Is Published Yes

Identifiers:
PubMed ID
Digital ID 10.1007/978-3-662-44303-3_8
ISSN (Print) 1611-3349
ISSN (Digital) 0302-9743
ISSN (Linking)

Performance of genetic programming optimised Bowtie2 on genome comparison and analytic testing (GCAT) benchmarks.

Publication date 2015
First Named Author Langdon WB
Other Authors
Publication Type Journal Article / Review
Identifiers:
PubMed ID 25621011
Digital ID 10.1186/s13040-014-0034-0
ISSN (Print) 1756-0381
ISSN (Digital) 1756-0381

Search-Based Software Engineering
Publication date 2015
First Named Author
Other Authors
Publication Type Book Chapter
Chapter Title Genetic Improvement of Software for Multiple Objectives
Chapter Number 2
Chapter Pages 12-28
Chapter Author Langdon W
Is Published Yes

Identifiers:
PubMed ID
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Genetic Improvement of Programs
- Submitted on, 10 Mar 2017

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Publication date | 2014
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First Named Author | Langdon W
Other Authors
Publication Type | Conference Proceeding / Conference Paper
Is Published | Yes

**Identifiers:**

PubMed ID
Digital ID | 10.1109/SYNASC.2014.10
ISSN (Print)
ISSN (Digital)
ISSN (Linking)

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**Behavioral Program Synthesis: Insights and Prospects**

Publication date | 2015
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First Named Author | Krawiec, K
Secondary Authors | Swan, J; O'Reilly, U-M
Publication Type | Conference Proceeding / Conference Paper
Is Published | Yes

**Identifiers:**

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**Tagging in metaheuristics**

Publication date | 2014
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First Named Author | Kovitz B
Structural stigmergy

Asymptotic Genetic Improvement Programming with Type Functors and Catamorphisms
Other Authors

Publication Type: Journal Article / Review
Is Published: Yes
Journal: Semantic Methods in Genetic Programming (SMGP) at Parallel Problem Solving from Nature (PPSN XIV) (V:, #:, Pg: )

Identifiers:
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ISSN (Print)
ISSN (Digital)
ISSN (Linking)

Search-Based Software Engineering
Publication date: 2014
First Named Author
Other Authors
Publication Type: Book Chapter
Chapter Title: Repairing and Optimizing Hadoop hashCode Implementations
Chapter Number: 22
Chapter Pages: 259-264
Chapter Author: Kocsis Z
Is Published: Yes

Identifiers:
PubMed ID
Digital ID: 10.1007/978-3-319-09940-8_22
ISSN (Print): 1611-3349
ISSN (Digital): 0302-9743
Learning Combinatorial Interaction Test Generation Strategies Using Hyperheuristic Search

Publication date: 2015
First Named Author: Jia Y
Secondary Authors: Cohen M, Harman M, Petke J
Publication Type: Conference Proceeding / Conference Paper
Is Published: Yes
Identifiers:
PubMed ID
Digital ID: 10.1109/ICSE.2015.71
ISSN (Print)
ISSN (Digital)
ISSN (Linking)

Iterated local search using an add and delete hyper-heuristic for university course timetabling

Publication date: 2016
First Named Author: Soria-Alcaraz J
Secondary Authors: Özcan E, Swan J, Kendall G, Carpio M
Publication Type: Journal Article / Review
Is Published: Yes
Identifiers:
PubMed ID
Digital ID: 10.1016/j.asoc.2015.11.043
On the Easiest and Hardest Fitness Functions

Publication date: 2015
First Named Author: Jun He
Secondary Authors: Tianshi Chen, Xin Yao
Publication Type: Journal Article / Review
Is Published: Yes
Journal: IEEE Transactions on Evolutionary Computation
(V: 19, #: 2, Pg: 295-305)

Identifiers:
PubMed ID
Digital ID: 10.1109/TEVC.2014.2318025
ISSN (Print): 1941-0026
ISSN (Digital): 1089-778X
ISSN (Linking)

GI4GI
Publication date: 2015
First Named Author: Harman M
Secondary Author: Petke J
Publication Type: Conference Proceeding / Conference Paper
Is Published: Yes

Identifiers:
PubMed ID
| Digital ID | 10.1145/2739482.2768415 |
| ISSN (Print) |  |
| ISSN (Digital) |  |
| ISSN (Linking) |  |

**Automated design of algorithms and genetic improvement**

**Publication date** 2014  
**First Named Author** Haraldsson S  
**Secondary Author** Woodward J  
**Publication Type** Conference Proceeding / Conference Paper  
**Is Published** Yes  

**Identifiers:**

| PubMed ID |  |
| Digital ID | 10.1145/2598394.2609874 |
| ISSN (Print) |  |
| ISSN (Digital) |  |
| ISSN (Linking) |  |

**Robust Optimization Over Time: Problem Difficulties and Benchmark Problems**

**Publication date** 2015  
**First Named Author** Fu H  
**Secondary Authors** Sendhoff B, Tang K, Yao X  
**Publication Type** Journal Article / Review  
**Is Published** Yes  
**Journal** IEEE Transactions on Evolutionary Computation (V: 19, #: 5, Pg: 731-745)
What are dynamic optimization problems?

Publication date 2014
First Named Author Fu H
Secondary Authors Lewis P, Sendhoff B, Tang K, Yao X
Publication Type Conference Proceeding / Conference Paper
Is Published Yes

Identifiers:

A Separability Prototype for Automatic Memes with Adaptive Operator Selection

Publication date 2014
First Named Author Epitropakis M
Secondary Authors Caraffini F, Neri F, Burke E
Publication Type Conference Proceeding / Conference Paper
Is Published Yes

Identifiers:
An evolutionary algorithm for performance optimization at software architecture level

Publication date: 2015
First Named Author: Du X
Secondary Authors: Yao X, Ni Y, Minku L, Ye P, Xiao R
Publication Type: Conference Proceeding / Conference Paper
Is Published: Yes

Identifiers:
PubMed ID
Digital ID: 10.1109/FOCI.2014.7007809
ISSN (Print)
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Simulated Evolution and Learning

Publication date: 2014
First Named Author
Other Authors
Publication Type: Book Chapter
Chapter Title: Dynamic Selection of Evolutionary Algorithm Operators Based on Online Learning and Fitness Landscape Metrics
Reducing Energy Consumption Using Genetic Improvement

Publication date: 2015
First Named Author: Bruce B
Secondary Authors: Petke J, Harman M
Publication Type: Conference Proceeding / Conference Paper
Is Published: Yes

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PubMed ID
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Energy Optimisation via Genetic Improvement

Publication date: 2015
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**Diversity Assessment in Many-Objective Optimization.**

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### A Survey on Evolutionary Computation Approaches to Feature Selection

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### Self-Adaptive and Online QoS Modeling for Cloud-Based Software Services

- Submitted on, 10 Mar 2017

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### Defect- and Variation-Tolerant Logic Mapping in Nanocrossbar Using Bipartite Matching and Memetic Algorithm

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Additional Dimensions to the Study of Funnels in Combinatorial Landscapes

Publication date: 2016
First Named Author: Ochoa G
Secondary Author: Veerapen N
Publication Type: Conference Proceeding / Conference Paper
Is Published: Yes

Identifiers:
PubMed ID
Digital ID: 10.1145/2908812.2908820
ISSN (Print)
ISSN (Digital)
ISSN (Linking)

Guiding Unconstrained Genetic Improvement

Publication date: 2016
First Named Author: White D
Publication Type: Conference Proceeding / Conference Paper
Is Published: Yes

Identifiers:
PubMed ID
Digital ID: 10.1145/2908961.2931688
ISSN (Print)
Sapienz: multi-objective automated testing for Android applications

Publication date 2016
First Named Author Mao K
Secondary Authors Harman M, Jia Y
Publication Type Conference Proceeding / Conference Paper
Is Published Yes

Identifiers:
PubMed ID
Digital ID 10.1145/2931037.2931054
ISSN (Print)
ISSN (Digital)
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Dynamic selection of evolutionary operators based on online learning and fitness landscape analysis

Publication date 2016
First Named Author Consoli P
Secondary Authors Mei Y, Minku L, Yao X
Publication Type Journal Article / Review
Is Published Yes
Journal Soft Computing (V: 20, #: 10, Pg: 3889-3914)

Identifiers:
PubMed ID
Digital ID 10.1007/s00500-016-2126-x

- Submitted on, 10 Mar 2017
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A New Dominance Relation-Based Evolutionary Algorithm for Many-Objective Optimization

Publication date 2016
First Named Author Yuan Y
Secondary Authors Xu H, Wang B, Yao X
Publication Type Journal Article / Review
Is Published Yes
Journal IEEE Transactions on Evolutionary Computation (V: 20, #: 1, Pg: 16-37)

Identifiers:
PubMed ID
Digital ID 10.1109/TEVC.2015.2420112
ISSN (Print) 1941-0026
ISSN (Digital) 1089-778X
ISSN (Linking)

Many-Objective Evolutionary Algorithms

Publication date 2015
First Named Author Li B
Secondary Authors Li J, Tang K, Yao X
Publication Type Journal Article / Review
Is Published Yes
Journal ACM Computing Surveys (V: 48, #: 1, Pg: 1-35)

Identifiers:
Introduction to the special issue on Mutation Testing

Publication date 2015
First Named Author Jia Y
Secondary Authors Merayo M, Harman M
Publication Type Journal Article / Review
Is Published Yes
Journal Software Testing, Verification and Reliability (V: 25, #: 5-7, Pg: 461-463)

Identifiers:
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ISSN (Print) 03600300
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Nadir point estimation for many-objective optimization problems based on emphasized critical regions

Publication date 2015
First Named Author Wang H
Secondary Authors He S, Yao X
Publication Type Journal Article / Review
Is Published Yes

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A multi-agent based cooperative approach to scheduling and routing

Publication date 2016
First Named Author Martin S
Secondary Authors Ouelhadj D, Beullens P, Ozcan E, Juan A, Burke E
Publication Type Journal Article / Review
Is Published Yes
Journal European Journal of Operational Research (V: 254, #: 1, Pg: 169-178)

Identifiers:
PubMed ID
Digital ID 10.1007/s00500-015-1940-x
ISSN (Print) 1433-7479
ISSN (Digital) 1432-7643
ISSN (Linking)

Ensembles and locality: Insight on improving software effort estimation

Publication date 2013
First Named Author Minku L
Secondary Author Yao X

- Submitted on, 10 Mar 2017
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Publication Type: Journal Article / Review

Is Published: Yes

Journal: Information and Software Technology (V: 55, #: 8, Pg: 1512-1528)

Identifiers:

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Digital ID: 10.1016/j.infsof.2012.09.012

ISSN (Print)

ISSN (Digital): 09505849

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First Complex Systems Digital Campus World E-Conference 2015

Publication date: 2017

First Named Author

Other Authors

Publication Type: Book Chapter

Chapter Title: Software is Not Fragile

Chapter Number: 24

Chapter Pages: 203-211

Chapter Author: Langdon W

Is Published: Yes

Identifiers:

PubMed ID

Digital ID: 10.1007/978-3-319-45901-1_24

ISSN (Print): 2213-8692

ISSN (Digital): 2213-8684

ISSN (Linking)
Benchmarking Genetically Improved BarraCUDA on Epigenetic Methylation NGS datasets and nVidia GPUs

Publication date 2016
First Named Author Langdon W
Secondary Authors Vilella A, Lam B, Petke J, Harman M
Publication Type Conference Proceeding / Conference Paper
Is Published Yes

Identifiers:
PubMed ID
Digital ID 10.1145/2908961.2931687
ISSN (Print)
ISSN (Digital)
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Genetic improvement: A key challenge for evolutionary computation

Publication date 2016
First Named Author Langdon W
Secondary Author Ochoa G
Publication Type Conference Proceeding / Conference Paper
Is Published Yes

Identifiers:
PubMed ID
Digital ID 10.1109/CEC.2016.7744177
ISSN (Print)
ISSN (Digital)
ISSN (Linking)
Parallel Problem Solving from Nature – PPSN XIV

Publication date 2016
First Named Author
Other Authors
Publication Type Book Chapter
Chapter Title Optimising Quantisation Noise in Energy Measurement
Chapter Number 23
Chapter Pages 249-259
Chapter Author Langdon W
Is Published Yes

Identifiers:
PubMed ID
Digital ID 10.1007/978-3-319-45823-6_23
ISSN (Print) 1611-3349
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Parallel Problem Solving from Nature – PPSN XIV

Publication date 2016
First Named Author
Other Authors
Publication Type Book Chapter
Chapter Title Kin Selection with Twin Genetic Programming
Chapter Number 29
Chapter Pages 313-323
Chapter Author Langdon W

- Submitted on, 10 Mar 2017
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Genetic improvement of GPU software

Publication date 2016
First Named Author Langdon W
Secondary Authors Lam B, Modat M, Petke J, Harman M
Publication Type Journal Article / Review
Is Published Yes
Journal Genetic Programming and Evolvable Machines (V: 18, #: 1, Pg: 5-44)

Identifiers:
PubMed ID
Digital ID 10.1007/s10710-016-9273-9
ISSN (Print) 1573-7632
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Benchmarking BarraCUDA on Epigenetic DNA and nVidia Pascal GPUs

Publication date 2016
First Named Author Langdon WB
Other Authors
Learn to live with academic rankings

Publication date 2016
First Named Author CACM Staff
Other Authors
Publication Type Journal Article / Review
Is Published Yes
Journal Communications of the ACM (V: 59, #: 11, Pg: 8-9)

Inferring Automatic Test Oracles

Publication date 2017
First Named Author Langdon WB
Secondary Authors Harman M, Yoo S
Publication Type Conference Proceeding / Conference Paper
Visualising the Search Landscape of the Triangle Program

Publication date: 2017
First Named Author: Langdon WB
Secondary Authors: Ochoa G, Veerapen N
Publication Type: Conference Proceeding / Conference Paper

BarraCUDA in the Cloud

Publication date: 2017
First Named Author: Langdon WB
Secondary Author: Davidson B
Publication Type: Other
Fitness Landscape of the Triangle Program

Publication date 2016
First Named Author Langdon WB
Secondary Author Harman M
Publication Type Conference Proceeding / Conference Paper

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The Genetic Improvement Fitness Landscape

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First Named Author Langdon WB
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Publication Type Other

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Genetic Improvement

Publication date 2016
First Named Author Langdon WB
Secondary Author Petke J

- Submitted on, 10 Mar 2017
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Publication Type: Other

Identifiers:

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Adaptive Multi-objective Evolutionary Algorithms for Overtime Planning in Software Projects

Publication date: 2017
First Named Author: Sarro F
Secondary Authors: Ferrucci F, Harman M, Manna A, Ren J
Publication Type: Journal Article / Review
Is Published: Yes
Journal: IEEE Transactions on Software Engineering (V: , #: , Pg: 1-1)

Identifiers:

PubMed ID

Digital ID: 10.1109/TSE.2017.2650914
ISSN (Print): 1939-3520
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ISSN (Linking)

A Survey of App Store Analysis for Software Engineering

Publication date: 2016
First Named Author: Martin W
Secondary Authors: Sarro F, Jia Y, Zhang Y, Harman M
Publication Type: Journal Article / Review

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**Multi-objective software effort estimation**

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Mutation-aware fault prediction

Publication date 2016
First Named Author Bowes D
Secondary Authors Hall T, Harman M, Jia Y, Sarro F, Wu F
Publication Type Conference Proceeding / Conference Paper
Is Published Yes

Identifiers:
PubMed ID
Digital ID 10.1145/2884781.2884830
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Clustering Mobile Apps Based on Mined Textual Features

Publication date 2016
First Named Author Al-Subaihin A

- Submitted on, 10 Mar 2017

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Publication Type: Conference Proceeding / Conference Paper
Is Published: Yes

Identifiers:
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Digital ID: 10.1145/2961111.2962600
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Search Based Software Engineering
Publication date: 2016
First Named Author
Other Authors

Publication Type: Book Chapter
Chapter Title: Multi-objective Regression Test Suite Minimisation for Mockito
Chapter Number: 19
Chapter Pages: 244-249
Chapter Author: Turner A
Is Published: Yes

Identifiers:
PubMed ID
Digital ID: 10.1007/978-3-319-47106-8_19
ISSN (Print): 1611-3349
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Applications of Evolutionary Computation
- Submitted on, 10 Mar 2017
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**Genetic Improvement for Code Obfuscation**

- Submitted on, 10 Mar 2017

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**Breakout local search for the multi-objective gate allocation problem**

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<td>Computers &amp; Operations Research (V: 78, #: , Pg: 80-93)</td>
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**Identifiers:**

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| **Digital ID** | 10.1016/j.cor.2016.08.010 |
| **ISSN (Print)** | |
| **ISSN (Digital)** | 03050548 |
| **ISSN (Linking)** | |

**The late acceptance Hill-Climbing heuristic**

- Submitted on, 10 Mar 2017

Page 98 of 132
An Adaptive Flex-Deluge Approach to University Exam Timetabling

Publication date 2016
First Named Author Burke E
Secondary Author Bykov Y
Publication Type Journal Article / Review
Is Published Yes
Journal INFORMS Journal on Computing (V: 28, #: 4, Pg: 781-794)

Identifiers:
PubMed ID
Digital ID 10.1287/ijoc.2015.0680
ISSN (Print) 1526-5528
ISSN (Digital) 1091-9856
ISSN (Linking)
A self-adaptive Multimeme Memetic Algorithm co-evolving utility scores to control genetic operators and their parameter settings

Publication date: 2016
First Named Author: Özcan E
Secondary Authors: Drake J, Altıntaş C, Asta S
Publication Type: Journal Article / Review
Is Published: Yes

Identifiers:
PubMed ID
Digital ID: 10.1016/j.asoc.2016.07.032
ISSN (Print)
ISSN (Digital): 15684946
ISSN (Linking)

A Case Study of Controlling Crossover in a Selection Hyper-heuristic Framework Using the Multidimensional Knapsack Problem.

Publication date: 2016
First Named Author: Drake JH
Secondary Authors: Özcan E, Burke EK
Publication Type: Journal Article / Review
Is Published: Yes
Journal: Evolutionary computation (V: 24, #: 1, Pg: 113-41)

Identifiers:
PubMed ID
Digital ID: 25635698
Digital ID: 10.1162/EVCO_a_00145

- Submitted on, 10 Mar 2017
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**Sparse, Continuous Policy Representations for Uniform Online Bin Packing via Regression of Interpolants**

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**Search Based Software Engineering**

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<td>Searching for Configurations in Clone Evaluation – A Replication Study</td>
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**Identifiers:**

- Submitted on, 10 Mar 2017

Page 101 of 132
Automatic Improvement of Apache Spark Queries using Semantics-preserving Program Reduction

Publication date 2016
First Named Author Kocsis Z
Secondary Authors Drake J, Carson D, Swan J
Publication Type Conference Proceeding / Conference Paper
Is Published Yes

Identifiers:
PubMed ID
Digital ID 10.1145/2908961.2931692
ISSN (Print)
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ISSN (Linking)

Automatically Designing More General Mutation Operators of Evolutionary Programming for Groups of Function Classes Using a Hyper-Heuristic

Publication date 2016
First Named Author Hong L
Secondary Authors Drake J, Woodward J, Özcan E
Publication Type Conference Proceeding / Conference Paper
Is Published Yes

- Submitted on, 10 Mar 2017
Page 102 of 132
**Search Based Software Engineering**

Publication date 2016

First Named Author

Other Authors

Publication Type Book Chapter

Chapter Title HOMI: Searching Higher Order Mutants for Software Improvement

Chapter Number 2

Chapter Pages 18-33

Chapter Author Wu F

Is Published Yes

**The Value of Exact Analysis in Requirements Selection**

Publication date 2016
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<th>First Named Author</th>
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- ISSN (Digital): 0098-5589

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**Memory mutation testing**

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- ISSN (Print)
- ISSN (Digital): 09505849
- ISSN (Linking)
A survey of the use of crowdsourcing in software engineering

Publication date 2017
First Named Author Mao K
Secondary Authors Capra L, Harman M, Jia Y
Publication Type Journal Article / Review
Is Published Yes
Journal Journal of Systems and Software (V: 126, #: , Pg: 57-84)

Identifiers:
PubMed ID
Digital ID 10.1016/j.jss.2016.09.015
ISSN (Print)
ISSN (Digital) 01641212
ISSN (Linking)

Advances in Computational Intelligence Systems

Publication date 2017
First Named Author
Other Authors
Publication Type Book Chapter
Chapter Title Evolutionary Algorithms with Linkage Information for Feature Selection in Brain Computer Interfaces
Chapter Number 19
Chapter Pages 287-307
Chapter Author Adair J
Is Published Yes

Identifiers:
Mining Markov Network Surrogates for Value-Added Optimisation
Publication date 2016
First Named Author Brownlee A
Other Authors
Publication Type Conference Proceeding / Conference Paper
Is Published Yes
Identifiers:
PubMed ID
Digital ID 10.1145/2908961.2931711
ISSN (Print)
ISSN (Digital)
ISSN (Linking)

Connecting Automatic Parameter Tuning, Genetic Programming as a Hyper-heuristic, and Genetic Improvement Programming
Publication date 2016
First Named Author Woodward J
Secondary Authors Johnson C, Brownlee A
Publication Type Conference Proceeding / Conference Paper
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Turning High-dimensional Optimization into Computationally Expensive Optimization

Publication date 2017
First Named Author Yang P
Secondary Authors Tang K, Yao X
Publication Type Journal Article / Review
Is Published Yes
Journal IEEE Transactions on Evolutionary Computation (V: , #: , Pg: 1-1)

Identifiers:
PubMed ID
Digital ID 10.1109/TEVC.2017.2672689
ISSN (Print) 1941-0026
ISSN (Digital) 1089-778X
ISSN (Linking)

Multi-Line Distance Minimization: A Visualized Many-Objective Test Problem Suite

Publication date 2017
First Named Author Li M
Secondary Authors Grosan C, Yang S, Liu X, Yao X
Publication Type Journal Article / Review
Is Published Yes

- Submitted on, 10 Mar 2017
Page 108 of 132
Which models of the past are relevant to the present? A software effort estimation approach to exploiting useful past models

Publication date 2016
First Named Author Minku L
Secondary Author Yao X
Publication Type Journal Article / Review
Is Published Yes
Journal Automated Software Engineering (V: , #: , Pg: )

On the Effectiveness of Sampling for Evolutionary Optimization in Noisy Environments.

Publication date 12 2016
First Named Author Qian C
A Scalable Approach to Capacitated Arc Routing Problems Based on Hierarchical Decomposition.

Publication date: 8 2016
First Named Author: Tang K
Secondary Authors: Wang J, Li X, Yao X
Publication Type: Journal Article / Review
Is Published: Yes
Journal: IEEE transactions on cybernetics (V: , #: , Pg: )

Identifiers:
PubMed ID: 27514069
Digital ID: 10.1109/TCYB.2016.2590558
ISSN (Print): 2168-2275
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ISSN (Linking): 2168-2267

Efficient Resource Allocation in Cooperative Co-evolution for Large-scale Global Optimization

- Submitted on, 10 Mar 2017

Page 110 of 132
Stochastic Ranking Algorithm for Many-Objective Optimization Based on Multiple Indicators

Publication date 2016
First Named Author Li B
Secondary Authors Tang K, Li J, Yao X
Publication Type Journal Article / Review
Is Published Yes
Journal IEEE Transactions on Evolutionary Computation (V: 20, #: 6, Pg: 924-938)

Identifiers:
PubMed ID
Digital ID 10.1109/TEVC.2016.2549267
ISSN (Print) 1941-0026
ISSN (Digital) 1089-778X
### Target shape design optimization by evolving B-splines with cooperative coevolution

**Publication date**: 2016  
**First Named Author**: Yang Z  
**Secondary Authors**: Sendhoff B, Tang K, Yao X  
**Publication Type**: Journal Article / Review  
**Is Published**: Yes  
**Journal**: Applied Soft Computing (V: 48, #: , Pg: 672-682)

**Identifiers:**  
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**ISSN (Print)**:  
**ISSN (Digital)**: 15684946  
**ISSN (Linking)**

### Average Drift Analysis and Population Scalability

**Publication date**: 2016  
**First Named Author**: He J  
**Secondary Author**: Yao X  
**Publication Type**: Journal Article / Review  
**Is Published**: Yes  
**Journal**: IEEE Transactions on Evolutionary Computation  
(V: , #: , Pg: 1-1)

**Identifiers:**  
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- Submitted on, 10 Mar 2017  
Page 112 of 132
A Competitive Divide-and-Conquer Algorithm for Unconstrained Large-Scale Black-Box Optimization

Publication date 2016
First Named Author Mei Y
Secondary Authors Omidvar M, Li X, Yao X
Publication Type Journal Article / Review
Is Published Yes
Journal ACM Transactions on Mathematical Software (V: 42, #: 2, Pg: 1-24)

Identifiers:
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Digital ID 10.1145/2791291
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ISSN (Digital) 00983500
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Evolutionary Multi-Criterion Optimization

Publication date 2017
First Named Author
Other Authors
Publication Type Book Chapter
Chapter Title Empirical Investigations of Reference Point Based Methods When Facing a Massively Large Number of Objectives: First Results
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**Parallel Problem Solving from Nature – PPSN XIV**

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| ISSN (Digital)                   | 0302-9743                                 |
| ISSN (Linking)                   |                                          |

**Robust Online Time Series Prediction with Recurrent Neural Networks**

- Submitted on, 10 Mar 2017

Page 115 of 132
A multi-modal optimization approach to single path planning for unmanned aerial vehicle

Publication date 2016
First Named Author Yang P
Secondary Authors Lu G, Tang K, Yao X
Publication Type Conference Proceeding / Conference Paper
Is Published Yes

Identifiers:
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Digital ID 10.1109/CEC.2016.7743998
ISSN (Print)
ISSN (Digital)
ISSN (Linking)

CBCC3 — A contribution-based cooperative co-evolutionary algorithm with improved exploration/exploitation balance

- Submitted on, 10 Mar 2017
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**Parallel Problem Solving from Nature – PPSN XIV**

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| **Digital ID** | 10.1007/978-3-319-45823-6_4 |
| **ISSN (Print)** | 1611-3349 |

- Submitted on, 10 Mar 2017

Page 117 of 132
Search based recommender system using many-objective evolutionary algorithm

Publication date 2016
First Named Author Li B
Secondary Authors Qian C, Li J, Tang K, Yao X
Publication Type Conference Proceeding / Conference Paper
Is Published Yes

Identifiers:
PubMed ID
Digital ID 10.1109/CEC.2016.7743786
ISSN (Print)
ISSN (Digital)
ISSN (Linking)

Empirical analysis of a tree-based efficient non-dominated sorting approach for many-objective optimization

Publication date 2016
First Named Author Zhang X
Secondary Authors Tian Y, Cheng R, Jin Y
Publication Type Conference Proceeding / Conference Paper
Is Published Yes

Identifiers:
PubMed ID
Digital ID 10.1109/SSCI.2016.7850210
Parallel Problem Solving from Nature – PPSN XIV

Publication date 2016

First Named Author

Other Authors

Publication Type Book Chapter

Chapter Title Variable Interaction in Multi-objective Optimization Problems

Chapter Number 37

Chapter Pages 399-409

Chapter Author Li K

Is Published Yes

Identifiers:

PubMed ID

Digital ID 10.1007/978-3-319-45823-6_37

ISSN (Print) 1611-3349

ISSN (Digital) 0302-9743

Efficient Nondomination Level Update Method for Steady-State Evolutionary Multiobjective Optimization.

Publication date 11 2016

First Named Author Li K

Secondary Authors Deb K, Zhang Q, Zhang Q

Publication Type Journal Article / Review
Is Published: Yes
Journal: IEEE transactions on cybernetics (V: , #: , Pg: )

Identifiers:
PubMed ID: 27845681
Digital ID: 10.1109/TCYB.2016.2621008
ISSN (Print): 2168-2275
ISSN (Digital): 2168-2275
ISSN (Linking): 2168-2267

Frontiers of Information Technology & Electronic Engineering
Publication date: 2017
First Named Author: Naseem R
Secondary Authors: Deris M, Maqbool O, Li J, Shahzad S, Shah H
Publication Type: Book Chapter
Chapter Title: Improved binary similarity measures for software modularization

Communities of Local Optima as Funnels in Fitness Landscapes
Publication date: 2016

- Submitted on, 10 Mar 2017
Page 120 of 132
Evolutionary Computation in Combinatorial Optimization

First Named Author: Herrmann S

Publication Type: Conference Proceeding / Conference Paper

Is Published: Yes

Identifiers:
PubMed ID
Digital ID: 10.1145/2908812.2908818

ISSN (Print)
ISSN (Digital)
ISSN (Linking)

Evolutionary Computation in Combinatorial Optimization
Publication date: 2016

First Named Author

Publication Type: Book Chapter

Chapter Title: Deconstructing the Big Valley Search Space Hypothesis

Chapter Number: 5
Chapter Pages: 58-73
Chapter Author: Ochoa G

Is Published: Yes

Identifiers:
PubMed ID
Digital ID: 10.1007/978-3-319-30698-8_5
ISSN (Print): 1611-3349
ISSN (Digital): 0302-9743
Threats to the validity of mutation-based test assessment

Publication date 2016
First Named Author Papadakis M
Secondary Authors Henard C, Harman M, Jia Y, Le Traon Y
Publication Type Conference Proceeding / Conference Paper
Is Published Yes

Identifiers:
PubMed ID
Digital ID 10.1145/2931037.2931040
ISSN (Print)
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Test oracle assessment and improvement

Publication date 2016
First Named Author Jahangirova G
Secondary Authors Clark D, Harman M, Tonella P
Publication Type Conference Proceeding / Conference Paper
Is Published Yes

Identifiers:
PubMed ID
Digital ID 10.1145/2931037.2931062
ISSN (Print)
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- Submitted on, 10 Mar 2017
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### An experimental search-based approach to cohesion metric evaluation

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### On Nie-Tan Operator and Type-reduction of Interval Type-2 Fuzzy Sets

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A methodology for determining an effective subset of heuristics in selection hyper-heuristics

Publication date: 2017
First Named Author: Soria-Alcaraz J
Secondary Authors: Ochoa G, Sotelo-Figeroa M, Burke E
Publication Type: Journal Article / Review
Is Published: Yes
Journal: European Journal of Operational Research (V: , #: , Pg: )

Identifiers:
PubMed ID
Digital ID: 10.1016/j.ejor.2017.01.042
ISSN (Print)
ISSN (Digital): 03772217
ISSN (Linking)

Towards a Biologically Inspired Soft Switching Approach for Cloud Resource Provisioning

Publication date: 2016
First Named Author: Ullah A
Secondary Authors: Li J, Hussain A, Yang E
Publication Type: Journal Article / Review
Is Published: Yes
Journal: Cognitive Computation (V: 8, #: 5, Pg: 992-1005)

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**Genetic Programming**

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**The Use of Automatic Test Data Generation for Genetic Improvement in a Live System**

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Variable Neighbourhood Search: A case study for a highly-constrained workforce scheduling problem

Publication date 2016
First Named Author Reid K
Secondary Authors Li J, Swan J, McCormick A, Owusu G
Publication Type Conference Proceeding / Conference Paper
Is Published Yes

Identifiers:

PubMed ID

Digital ID 10.1109/SSCI.2016.7850087
Genetic optimization of fuzzy membership functions for cloud resource provisioning

Publication date: 2016
First Named Author: Ullah A
Secondary Authors: Li J, Hussain A, Yindong Shen
Publication Type: Conference Proceeding / Conference Paper
Is Published: Yes

Identifiers:
PubMed ID
Digital ID: 10.1109/SSCI.2016.7850088
ISSN (Print)
ISSN (Digital)
ISSN (Linking)

Genetic programming + proof search = automatic improvement

Publication date: 2017
First Named Author: Kocsis KA
Secondary Author: Swan J
Publication Type: Journal Article / Review
Journal: Journal of Automated Reasoning (V: , #: , Pg: )

Identifiers:
Data Source
ISSN (Print)
Harmonic analysis and resynthesis of sliding-tile puzzle heuristics

Publication date 2017
First Named Author Swan J
Other Authors
Publication Type Conference Proceeding / Conference Paper

Recent Developments of Metaheuristics
Publication date 2017
First Named Author Swan J
Secondary Authors De Causmaecker P, Martin S, Ozcan E
Publication Type Book Chapter
Chapter Title A re-characterization of hyper-heuristics
Chapter Number
Chapter Pages 1-16
Chapter Author

Identifiers:
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Polytypic Genetic Programming

Publication date: 2017
First Named Author: Swan J
Secondary Authors: Ghani N, Krawiec K
Publication Type: Conference Proceeding / Conference Paper

Identifiers:
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Genetic Programming

Publication date: 2016
First Named Author: Swan J
Other Authors: Ghani N, Krawiec K
Publication Type: Book Chapter
Chapter Title: Iterative Cartesian Genetic Programming: Creating General Algorithms for Solving Travelling Salesman Problems
Chapter Number: 19
Chapter Pages: 294-310
Chapter Author: Ryser-Welch P
Is Published: Yes

Identifiers:
- PubMed ID
- Digital ID: 10.1007/978-3-319-30668-1_19

- Submitted on, 10 Mar 2017
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