EP/J017515/1

DAASE: Dynamic Adaptive Automated Software Engineering

Professor Mark Harman

Document produced, 30 May 2017

Award Title	DAASE: Dynamic Adaptive Automated Software Engineering
Award Reference	EP/J017515/1
Location	University College London (UCL)
Funding Start Date	2012-06-01
Funding End Date	2018-11-30
Award Abstract	

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
Publication ID	

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

Publication ID

Identifiers:

Data Source

PubMed ID

Digital ID

ISSN (Print)

ISSN (Digital)

ISSN (Linking)

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)	
ISSN (Linking)	

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

First Named Author	Pappa G
Secondary Authors	Ochoa G, Hyde M, Freitas A, Woodward J, Swan J
Publication Type	Journal Article / Review
Is Published	Yes
Journal	Genetic Programming and Evolvable Machines (V: 15, #: 1, Pg: 3-35)

Identifiers:

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:

Population-based Algorithm Portfolios with automated constituent algorithms selection

Publication date	2014
First Named Author	Tang K
Secondary Authors	Peng F, Chen G, Yao X
Publication Type	Journal Article / Review
Is Published	Yes
Journal	Information Sciences (V: 279, #: , Pg: 94-104)

Identifiers:

PubMed ID	
Digital ID	10.1016/j.ins.2014.03.105
ISSN (Print)	
ISSN (Digital)	00200255
ISSN (Linking)	

The optimisation of stochastic grammars to enable cost-effective probabilistic structural testing

Publication date	2015
First Named Author	Poulding S
Secondary Authors	Alexander R, Clark J, Hadley M
Publication Type	Journal Article / Review
Is Published	Yes
Journal	Journal of Systems and Software (V: 103, #: , Pg: 296-310)

Identifiers:

PubMed ID	
Digital ID	10.1016/j.jss.2014.11.042

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:

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

Journal	IEEE Transactions on Evolutionary Computation (V: 18, #: 3, Pg: 378-393)

Identifiers:

PubMed ID	
Digital ID	10.1109/TEVC.2013.2281543
ISSN (Print)	1941-0026
ISSN (Digital)	1089-778X
ISSN (Linking)	

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)

Identifiers:

PubMed ID	
Digital ID	10.1109/TEVC.2014.2305671
ISSN (Print)	1941-0026
ISSN (Digital)	1089-778X
ISSN (Linking)	

Two_Arch2: An Improved Two-Archive Algorithm for Many-Objective Optimization

Publication date	2015

Resampling-Based Ensemble Methods for Online Class Imbalance Learning

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)	
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:

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

Identifiers:

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:

GI4GI: Improving Genetic Improvement Fitness Functions

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

Identifiers:

Data Source

ISSN (Print)

ISSN (Digital)

ISSN (Linking)

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

ISSN (Print)

ISSN (Digital)

ISSN (Linking)

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:

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:

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

Identifiers:

Data Source

ISSN (Print)

ISSN (Digital)

ISSN (Linking)

Heuristic optimisation for software project management with impacts of team efficienty

Publication date   2014

First Named Author   Jin, N

Secondary Authors   Yao, X

Publication Type   Conference Proceeding / Conference Paper

Is Published   Yes

Identifiers:

Data Source

ISSN (Print)

ISSN (Digital)

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:

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:

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)	
ISSN (Linking)	

Improving 3D medical image registration CUDA software with genetic programming

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

Identifiers:

Data Source

ISSN (Print)

ISSN (Digital)

ISSN (Linking)

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:

Data Source

ISSN (Print)

ISSN (Digital)

ISSN (Linking)

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

Publication date	2014
First Named Author	Petke, J

Secondary Authors	Harman, M;Langdon, W B.;Weimer, W
Publication Type	Conference Proceeding / Conference Paper
Is Published	Yes

Identifiers:

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

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)	
ISSN (Digital)	
ISSN (Linking)	

Search Based Software Engineering

Publication date	2013
First Named Author	
Other Authors	
Publication Type	Book Chapter

Chapter Title	Applying Genetic Improvement to MiniSAT
Chapter Number	21
Chapter Pages	257-262
Chapter Author	Petke J
Is Published	Yes
Publication ID	10.1007/978-3-642-39742-4_21

Identifiers:

Data Source	CrossRef
Digital ID	10.1007/978-3-642-39742-4_21
ISSN (Print)	1611-3349
ISSN (Digital)	0302-9743
ISSN (Linking)	

Foga 15 Foundations on Genetic Algorithms XIII

Publication date	08 2015
First Named Author	Foga
Other Authors	
Publication Type	Book
Is Published	

Identifiers:

PubMed ID	
Digital ID	
ISSN (Print)	
ISSN (Digital)	
ISSN (Linking)	

Evolutionary Computation in Combinatorial Optimization: 15th European Conference, EVOCOP 2015, Copenhagen, Denmark, April 8-10, 2015, Proceedings

Publication date	03 2015
First Named Author	
Secondary Authors	Ochoa Gabriela, Chicano Francisco
Publication Type	Book
Is Published	

Identifiers:

PubMed ID	
Digital ID	
ISSN (Print)	
ISSN (Digital)	
ISSN (Linking)	

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

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

---

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

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

Is Published   Yes

Identifiers:

PubMed ID

Digital ID   10.1109/CEC.2015.7256971

ISSN (Print)

ISSN (Digital)

ISSN (Linking)

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)

ISSN (Digital)

ISSN (Linking)

Search-Based Software Engineering

Publication date   2015

First Named Author

Other Authors

Publication Type   Book Chapter

Chapter Title	Haiku - a Scala Combinator Toolkit for Semi-automated Composition of Metaheuristics
Chapter Number	9
Chapter Pages	125-140
Chapter Author	Kocsis Z
Is Published	Yes

Identifiers:

Tunnelling Crossover Networks

Publication date	2015
First Named Author	Ochoa G
Secondary Authors	Chicano F, Tinós R, Whitley D
Publication Type	Conference Proceeding / Conference Paper
Is Published	Yes

Identifiers:

Search-Based Software Engineering

Publication date	2015
First Named Author	
Other Authors	
Publication Type	Book Chapter
Chapter Title	Object-Oriented Genetic Improvement for Improved Energy Consumption in Google Guava
Chapter Number	20
Chapter Pages	255-261
Chapter Author	Burles N
Is Published	Yes

Identifiers:

PubMed ID	
Digital ID	10.1007/978-3-319-22183-0_20
ISSN (Print)	1611-3349
ISSN (Digital)	0302-9743
ISSN (Linking)	

Metaheuristic Design Pattern

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

Identifiers:

PubMed ID	
Digital ID	10.1145/2739482.2768499
ISSN (Print)	

ISSN (Digital)

ISSN (Linking)

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	
Digital ID	10.1145/2739482.2768423
ISSN (Print)	
ISSN (Digital)	
ISSN (Linking)	

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:

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:

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:

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

| Journal | Applied Soft Computing (V: 33, #: , Pg: 114-126) |

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)

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

Publication Type	Journal Article / Review
Is Published	Yes
Journal	European Journal of Operational Research (V: 245, #: 3, Pg: 719-730)

Identifiers:

PubMed ID	
Digital ID	10.1016/j.ejor.2015.04.008
ISSN (Print)	
ISSN (Digital)	03772217
ISSN (Linking)	

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

Publication date	2015
First Named Author	

Other Authors

Publication Type   Book Chapter

Chapter Title   A Multi-objective Simulated Annealing for Bus Driver Rostering

Chapter Number   29

Chapter Pages   315-330

Chapter Author   Peng K

Is Published   Yes

Identifiers:

Iterated local search based on multi-type perturbation for single-machine earliness/tardiness scheduling

Publication date   2015

First Named Author   Qin T

Secondary Authors   Peng B, Benlic U, Cheng T, Wang Y, Lü Z

Publication Type   Journal Article / Review

Is Published   Yes

Journal   Computers & Operations Research (V: 61, #: , Pg: 81-88)

Identifiers:

Journal of Scheduling (2015)

Publication date	2015
First Named Author	Burke E
Secondary Author	Pinedo M
Publication Type	Journal Article / Review
Is Published	Yes
Journal	Journal of Scheduling (V: 18, #: 1, Pg: 1-1)

Identifiers:

The Multi-Funnel Structure of TSP Fitness Landscapes: A Visual Exploration

Publication date	2015
First Named Author	Ochoa, G
Secondary Authors	Veerapen, N;Whitley, D. I.;Brownlee, A. E. I.;Kocsis, Z. A.;Swan, J;Veerapen, N
Publication Type	Conference Proceeding / Conference Paper
Is Published	Yes

Identifiers:

ISSN (Digital)

ISSN (Linking)

Recombination to Improve a Distributed Model of Adaptive Operator Selection

Publication date	2015
First Named Author	Ochoa, G
Secondary Authors	Soria-Alcaraz, J. A.;Goeffon, A;Lardeux, F;Saubion, F
Publication Type	Conference Proceeding / Conference Paper
Is Published	Yes

Identifiers:

Data Source

ISSN (Print)

ISSN (Digital)

ISSN (Linking)

Towards Workload-Aware Cloud Resource Provisioning Using a Novel Multi-Controller Fuzzy Switching Approach

Publication date	2015
First Named Author	Li, J
Secondary Authors	Ullah, A;Hussain, A
Publication Type	Conference Proceeding / Conference Paper
Is Published	Yes

Identifiers:

Data Source

ISSN (Print)

ISSN (Digital)

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:

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:

PubMed ID

Digital ID   10.1109/ICSE.2015.103

ISSN (Print)

ISSN (Digital)

ISSN (Linking)

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:

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:

Data Source

ISSN (Print)

ISSN (Digital)

ISSN (Linking)

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

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:

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

Identifiers:

ISSN (Print)

ISSN (Digital)

ISSN (Linking)

Hyperheuristic Search for SBST

Publication date   2015

First Named Author   Jia Y

Other Authors

Publication Type   Conference Proceeding / Conference Paper

Is Published   Yes

Identifiers:

PubMed ID

Digital ID   10.1109/SBST.2015.10

ISSN (Print)

ISSN (Digital)

ISSN (Linking)

Genetic Improvement using Higher Order Mutation

Publication date   2015

First Named Author   Jia Y

Secondary Authors   Wu F, Harman M, Krinke J

Publication Type   Conference Proceeding / Conference Paper

Is Published   Yes

Identifiers:

PubMed ID

Digital ID   10.1145/2739482.2768417

ISSN (Print)

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:

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

Chapter Number   21

Chapter Pages   262-268

Chapter Author   Marginean A

Is Published   Yes

Identifiers:

PubMed ID

Digital ID   10.1007/978-3-319-22183-0_21

ISSN (Print)   1611-3349

ISSN (Digital)   0302-9743

ISSN (Linking)

Search-Based Software Engineering

Publication date   2015

First Named Author

Other Authors

Publication Type   Book Chapter

Chapter Title   Regression Test Case Prioritisation for Guava

Chapter Number   15

Chapter Pages   221-227

Chapter Author   Bian Y

Is Published   Yes

Identifiers:

PubMed ID

Digital ID   10.1007/978-3-319-22183-0_15

ISSN (Print)   1611-3349

ISSN (Digital)   0302-9743

ISSN (Linking)

Search-Based Software Engineering

Publication date	2015
First Named Author	
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	Patrick M
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:

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:

Digital ID   10.1145/2642937.2643008

ISSN (Print)

ISSN (Digital)

ISSN (Linking)

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

Digital ID	10.1145/2593929.2600116
ISSN (Print)	
ISSN (Digital)	
ISSN (Linking)	

Search-Based Software Engineering

Publication date	2014
First Named Author	
Other Authors	
Publication Type	Book Chapter
Chapter Title	Babel Pidgin: SBSE Can Grow and Graft Entirely New Functionality into a Real World System
Chapter Number	20
Chapter Pages	247-252
Chapter Author	Harman M
Is Published	Yes

Identifiers:

PubMed ID	
Digital ID	10.1007/978-3-319-09940-8_20
ISSN (Print)	1611-3349
ISSN (Digital)	0302-9743
ISSN (Linking)	

Search-Based Software Engineering

Publication date	2014
First Named Author	
Other Authors	

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:

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:

Product-Focused Software Process Improvement

Publication date   2015

First Named Author

Other Authors

Publication Type   Book Chapter

Chapter Title   From Function Points to COSMIC - A Transfer
                                  Learning Approach for Effort Estimation

Chapter Number   19

Chapter Pages   251-267

Chapter Author   Corazza A

Is Published   Yes

Identifiers:

Product-Focused Software Process Improvement

Publication date   2015

First Named Author

Other Authors

Publication Type   Book Chapter

Chapter Title   Investigating Functional and Code Size Measures
                                  for Mobile Applications: A Replicated Study

Chapter Number   20

Chapter Pages   271-287

Chapter Author	Ferrucci F
Is Published	Yes

Identifiers:

PubMed ID	
Digital ID	10.1007/978-3-319-26844-6_20
ISSN (Print)	1611-3349
ISSN (Digital)	0302-9743
ISSN (Linking)	

A parallel genetic algorithms framework based on Hadoop MapReduce

Publication date	2015
First Named Author	Ferrucci F
Secondary Authors	Salza P, Kechadi M, Sarro F
Publication Type	Conference Proceeding / Conference Paper
Is Published	Yes

Identifiers:

PubMed ID	
Digital ID	10.1145/2695664.2696060
ISSN (Print)	
ISSN (Digital)	
ISSN (Linking)	

The plastic surgery hypothesis

Publication date	2014
First Named Author	Barr E
Secondary Authors	Brun Y, Devanbu P, Harman M, 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)

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   10.1145/2639490.2639509

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

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)	

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	10.1145/2601248.2601284
ISSN (Print)	
ISSN (Digital)	
ISSN (Linking)	

Search-Based Software Engineering

Publication date	2015
First Named Author	
Other Authors	
Publication Type	Book Chapter

Chapter Title	SBSelector: Search Based Component Selection for Budget Hardware
Chapter Number	25
Chapter Pages	289-294
Chapter Author	Li L
Is Published	Yes

Identifiers:

PubMed ID	
Digital ID	10.1007/978-3-319-22183-0_25
ISSN (Print)	1611-3349
ISSN (Digital)	0302-9743
ISSN (Linking)	

Search-Based Software Engineering

Publication date	2015
First Named Author	
Other Authors	
Publication Type	Book Chapter
Chapter Title	Multi-objective Module Clustering for Kate
Chapter Number	24
Chapter Pages	282-288
Chapter Author	Paixao M
Is Published	Yes

Identifiers:

PubMed ID	
Digital ID	10.1007/978-3-319-22183-0_24
ISSN (Print)	1611-3349

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:

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:

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:

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

Identifiers:

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:

An Empirical Study of Meta- and Hyper-Heuristic Searchfor 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:

Data Source

ISSN (Print)

ISSN (Digital)

ISSN (Linking)

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

Publication date   2016

First Named Author   Yuan Y

Secondary Authors   Xu H, Wang B, Zhang B, Yao X

Publication Type   Journal Article / Review

Is Published   Yes

Journal   IEEE Transactions on Evolutionary Computation (V: 20, #: 2, Pg: 180-198)

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

Identifiers:

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:

Regularity Model for Noisy Multiobjective Optimization.

Publication date	9 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:

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:

Genetic Programming

Publication date   2015

First Named Author

Other Authors

Publication Type   Book Chapter

Chapter Title   Templar – A Framework for Template-Method
                               Hyper-Heuristics

Chapter Number	17
Chapter Pages	205-216
Chapter Author	Swan J
Is Published	Yes

Identifiers:

PubMed ID	
Digital ID	10.1007/978-3-319-16501-1_17
ISSN (Print)	1611-3349
ISSN (Digital)	0302-9743
ISSN (Linking)	

Online Ensemble Learning of Data Streams with Gradually Evolved Classes

Publication date	2016
First Named Author	Sun Y
Secondary Authors	Tang K, Minku L, Wang S, Yao X
Publication Type	Journal Article / Review
Is Published	Yes
Journal	IEEE Transactions on Knowledge and Data Engineering (V: 28, #: 6, Pg: 1532-1545)

Identifiers:

PubMed ID	
Digital ID	10.1109/TKDE.2016.2526675
ISSN (Print)	
ISSN (Digital)	1041-4347
ISSN (Linking)	

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:

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:

ISSN (Print)

ISSN (Digital)

ISSN (Linking)

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

ISSN (Print)

ISSN (Digital)

ISSN (Linking)

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

Is Published	Yes
Journal	BioData mining (V: 8, #: 1, Pg: 1)

Identifiers:

PubMed ID	25621011
Digital ID	10.1186/s13040-014-0034-0
ISSN (Print)	
ISSN (Digital)	1756-0381
ISSN (Linking)	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	
Digital ID	10.1007/978-3-319-22183-0_2
ISSN (Print)	1611-3349
ISSN (Digital)	0302-9743
ISSN (Linking)	

Genetic Improvement of Programs

Publication date	2014
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)	

Behavioral Program Synthesis:Insights and Prospects

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

Identifiers:

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

Tagging in metaheuristics

Publication date	2014
First Named Author	Kovitz B

Secondary Author   Swan J

Publication Type   Conference Proceeding / Conference Paper

Is Published   Yes

Identifiers:

PubMed ID

Digital ID   10.1145/2598394.2609844

ISSN (Print)

ISSN (Digital)

ISSN (Linking)

Structural stigmergy

Publication date   2014

First Named Author   Kovitz B

Secondary Author   Swan J

Publication Type   Conference Proceeding / Conference Paper

Is Published   Yes

Identifiers:

PubMed ID

Digital ID   10.1145/2598394.2609845

ISSN (Print)

ISSN (Digital)

ISSN (Linking)

Asymptotic Genetic Improvement Programming with Type Functors and Catamorphisms

Publication date   2014

First Named Author   Johnson, C

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:

Data Source

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:

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
Journal	Applied Soft Computing (V: 40, #: , Pg: 581-593)

Identifiers:

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:

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

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:

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)

Identifiers:

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:

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

Chapter Number	31
Chapter Pages	359-370
Chapter Author	Consoli P
Is Published	Yes

Identifiers:

PubMed ID	
Digital ID	10.1007/978-3-319-13563-2_31
ISSN (Print)	1611-3349
ISSN (Digital)	0302-9743
ISSN (Linking)	

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

Identifiers:

PubMed ID	
Digital ID	10.1145/2739480.2754752
ISSN (Print)	
ISSN (Digital)	
ISSN (Linking)	

Energy Optimisation via Genetic Improvement

Publication date	2015
First Named Author	Bruce B

Other Authors

Publication Type   Conference Proceeding / Conference Paper

Is Published   Yes

Identifiers:

PubMed ID

Digital ID   10.1145/2739482.2768420

ISSN (Print)

ISSN (Digital)

ISSN (Linking)

Hyperion2

Publication date   2014

First Named Author   Brownlee A

Secondary Authors   Swan J, Özcan E, Parkes A

Publication Type   Conference Proceeding / Conference Paper

Is Published   Yes

Identifiers:

PubMed ID

Digital ID   10.1145/2598394.2605687

ISSN (Print)

ISSN (Digital)

ISSN (Linking)

Publication date   2015

First Named Author   Petke J

Other Authors

| **Publication Type** | Other |
| **Is Published** | Yes |

Identifiers:

PubMed ID	
Digital ID	10.1007/978-3-319-21810-6
ISSN (Print)	2365-306X
ISSN (Digital)	2365-3051
ISSN (Linking)	

Negatively Correlated Search

Publication date	2016
First Named Author	Tang K
Secondary Authors	Yang P, Yao X
Publication Type	Journal Article / Review
Is Published	Yes
Journal	IEEE Journal on Selected Areas in Communications (V: 34, #: 3, Pg: 542-550)

Identifiers:

PubMed ID	
Digital ID	10.1109/JSAC.2016.2525458
ISSN (Print)	
ISSN (Digital)	0733-8716
ISSN (Linking)	

Diversity Assessment in Many-Objective Optimization.

| **Publication date** | 5 2016 |
| **First Named Author** | Wang H |

Secondary Authors	Jin Y, Yao X
Publication Type	Journal Article / Review
Is Published	Yes
Journal	IEEE transactions on cybernetics (V: , #: , Pg:)

Identifiers:

A Survey on Evolutionary Computation Approaches to Feature Selection

Publication date	2016
First Named Author	Xue B
Secondary Authors	Zhang M, Browne W, Yao X
Publication Type	Journal Article / Review
Is Published	Yes
Journal	IEEE Transactions on Evolutionary Computation (V: 20, #: 4, Pg: 606-626)

Identifiers:

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

- Submitted on, 10 Mar 2017

Publication date	2016
First Named Author	Chen T
Secondary Author	Bahsoon R
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.2016.2608826
ISSN (Print)	1939-3520
ISSN (Digital)	0098-5589
ISSN (Linking)	

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

Publication date	2016
First Named Author	Yuan B
Secondary Authors	Li B, Chen H, Yao X
Publication Type	Journal Article / Review
Is Published	Yes
Journal	IEEE Transactions on Very Large Scale Integration (VLSI) Systems (V: 24, #: 9, Pg: 2813-2826)

Identifiers:

PubMed ID	
Digital ID	10.1109/TVLSI.2016.2530898
ISSN (Print)	1557-9999

ISSN (Digital)	1063-8210
ISSN (Linking)	

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
Other Authors	
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:

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:

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:

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:

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

| Journal | Soft Computing (V: , #: , Pg:) |

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)

Ensembles and locality: Insight on improving software effort estimation

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

Publication Type	Journal Article / Review
Is Published	Yes
Journal	Information and Software Technology (V: 55, #: 8, Pg: 1512-1528)

Identifiers:

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:

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)	
ISSN (Linking)	

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
ISSN (Digital)	0302-9743
ISSN (Linking)	

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

Is Published   Yes

Identifiers:

PubMed ID

Digital ID   10.1007/978-3-319-45823-6_29

ISSN (Print)   1611-3349

ISSN (Digital)   0302-9743

ISSN (Linking)

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

ISSN (Digital)   1389-2576

ISSN (Linking)

Benchmarking BarraCUDA on Epigenetic DNA and nVidia Pascal GPUs

Publication date   2016

First Named Author   Langdon WB

Other Authors

Publication Type   Technical Report

Identifiers:

Data Source

Digital ID   10.1101/095075

ISSN (Print)

ISSN (Digital)

ISSN (Linking)

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)

Identifiers:

PubMed ID

Digital ID   10.1145/3002205

ISSN (Print)

ISSN (Digital)   00010782

ISSN (Linking)

Inferring Automatic Test Oracles

Publication date   2017

First Named Author   Langdon WB

Secondary Authors   Harman M, Yoo S

Publication Type   Conference Proceeding / Conference Paper

Identifiers:

Data Source

ISSN (Print)

ISSN (Digital)

ISSN (Linking)

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

Identifiers:

Data Source

ISSN (Print)

ISSN (Digital)

ISSN (Linking)

BarraCUDA in the Cloud

Publication date   2017

First Named Author   Langdon WB

Secondary Author   Davidson B

Publication Type   Other

Identifiers:

Data Source

ISSN (Print)

ISSN (Digital)

ISSN (Linking)

- Submitted on, 10 Mar 2017

Fitness Landscape of the Triangle Program

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

Identifiers:

Data Source

ISSN (Print)

ISSN (Digital)

ISSN (Linking)

The Genetic Improvement Fitness Landscape

Publication date	2016
First Named Author	Langdon WB
Other Authors	
Publication Type	Other

Identifiers:

Data Source

ISSN (Print)

ISSN (Digital)

ISSN (Linking)

Genetic Improvement

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

Publication Type	Other

Identifiers:

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

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
ISSN (Digital)	0098-5589
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

Is Published	Yes
Journal	IEEE Transactions on Software Engineering (V: , #: , Pg: 1-1)

Identifiers:

PubMed ID	
Digital ID	10.1109/TSE.2016.2630689
ISSN (Print)	1939-3520
ISSN (Digital)	0098-5589
ISSN (Linking)	

Causal impact analysis for app releases in google play

Publication date	2016
First Named Author	Martin W
Secondary Authors	Sarro F, Harman M
Publication Type	Conference Proceeding / Conference Paper
Is Published	Yes

Identifiers:

PubMed ID	
Digital ID	10.1145/2950290.2950320
ISSN (Print)	
ISSN (Digital)	
ISSN (Linking)	

Multi-objective software effort estimation

Publication date	2016
First Named Author	Sarro F
Secondary Authors	Petrozziello A, Harman M

Publication Type	Conference Proceeding / Conference Paper
Is Published	Yes

Identifiers:

PubMed ID	
Digital ID	10.1145/2884781.2884830
ISSN (Print)	
ISSN (Digital)	
ISSN (Linking)	

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	10.1145/2931037.2931039
ISSN (Print)	
ISSN (Digital)	
ISSN (Linking)	

Clustering Mobile Apps Based on Mined Textual Features

Publication date	2016
First Named Author	Al-Subaihin A
Secondary Authors	Sarro F, Black S, Capra L, Harman M, Jia Y, Zhang Y

Publication Type	Conference Proceeding / Conference Paper
Is Published	Yes

Identifiers:

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:

Applications of Evolutionary Computation

- Submitted on, 10 Mar 2017

Publication date	2017
First Named Author	
Other Authors	
Publication Type	Book Chapter
Chapter Title	Deep Parameter Tuning of Concurrent Divide and Conquer Algorithms in Akka
Chapter Number	3
Chapter Pages	35-48
Chapter Author	White D
Is Published	Yes
Publication ID	10.1007/978-3-319-55792-2_3

Identifiers:

Data Source	CrossRef
Digital ID	10.1007/978-3-319-55792-2_3
ISSN (Print)	1611-3349
ISSN (Digital)	0302-9743
ISSN (Linking)	

Search Based Software Engineering

Publication date	2016
First Named Author	
Other Authors	
Publication Type	Book Chapter
Chapter Title	Validation of Constraints Among Configuration Parameters Using Search-Based Combinatorial Interaction Testing
Chapter Number	4
Chapter Pages	49-63

Chapter Author	Gargantini A
Is Published	Yes

Identifiers:

PubMed ID	
Digital ID	10.1007/978-3-319-47106-8_4
ISSN (Print)	1611-3349
ISSN (Digital)	0302-9743
ISSN (Linking)	

Search Based Software Engineering

Publication date	2016
First Named Author	
Other Authors	
Publication Type	Book Chapter
Chapter Title	Deep Parameter Optimisation for Face Detection Using the Viola-Jones Algorithm in OpenCV
Chapter Number	18
Chapter Pages	238-243
Chapter Author	Bruce B
Is Published	Yes

Identifiers:

PubMed ID	
Digital ID	10.1007/978-3-319-47106-8_18
ISSN (Print)	1611-3349
ISSN (Digital)	0302-9743
ISSN (Linking)	

Genetic Improvement for Code Obfuscation

Publication date   2016

First Named Author   Petke J

Other Authors

Publication Type   Conference Proceeding / Conference Paper

Is Published   Yes

Identifiers:

PubMed ID

Digital ID   10.1145/2908961.2931689

ISSN (Print)

ISSN (Digital)

ISSN (Linking)

Breakout local search for the multi-objective gate allocation problem

Publication date   2017

First Named Author   Benlic U

Secondary Authors   Burke E, Woodward J

Publication Type   Journal Article / Review

Is Published   Yes

Journal   Computers & Operations Research (V: 78, #: , Pg: 80-93)

Identifiers:

PubMed ID

Digital ID   10.1016/j.cor.2016.08.010

ISSN (Print)

ISSN (Digital)   03050548

ISSN (Linking)

The late acceptance Hill-Climbing heuristic

Publication date	2017
First Named Author	Burke E
Secondary Author	Bykov Y
Publication Type	Journal Article / Review
Is Published	Yes
Journal	European Journal of Operational Research (V: 258, #: 1, Pg: 70-78)

Identifiers:

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:

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
Journal	Applied Soft Computing (V: 49, #: , Pg: 81-93)

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	25635698
Digital ID	10.1162/EVCO_a_00145

Sparse, Continuous Policy Representations for Uniform Online Bin Packing via Regression of Interpolants

Publication date	2017
First Named Author	Drake J
Secondary Authors	Swan J, Neumann G, Ozcan E, Burke EK
Publication Type	Conference Proceeding / Conference Paper

Identifiers:

Data Source

ISSN (Print)

ISSN (Digital)

ISSN (Linking)

Search Based Software Engineering

Publication date	2016
First Named Author	
Other Authors	
Publication Type	Book Chapter
Chapter Title	Searching for Configurations in Clone Evaluation – A Replication Study
Chapter Number	20
Chapter Pages	250-256
Chapter Author	Ragkhitwetsagul C
Is Published	Yes

Identifiers:

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:

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

Search Based Software Engineering

The Value of Exact Analysis in Requirements Selection

First Named Author	Li L
Secondary Authors	Harman M, Wu F, Zhang Y
Publication Type	Journal Article / Review
Is Published	Yes
Journal	IEEE Transactions on Software Engineering (V: , #: , Pg: 1-1)

Identifiers:

Memory mutation testing

Publication date	2017
First Named Author	Wu F
Secondary Authors	Nanavati J, Harman M, Jia Y, Krinke J
Publication Type	Journal Article / Review
Is Published	Yes
Journal	Information and Software Technology (V: 81, #: , Pg: 97-111)

Identifiers:

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:

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:

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

Is Published   Yes

Identifiers:

PubMed ID

Digital ID   10.1145/2908961.2931728

ISSN (Print)

ISSN (Digital)

ISSN (Linking)

Evals is Not Enough

Publication date   2016

First Named Author   Woodward J

Secondary Authors   Brownlee A, Johnson C

Publication Type   Conference Proceeding / Conference Paper

Is Published   Yes

Identifiers:

PubMed ID

Digital ID   10.1145/2908961.2931695

ISSN (Print)

ISSN (Digital)

ISSN (Linking)

GP vs GI

Publication date   2016

First Named Author   Woodward J

Secondary Authors   Johnson C, Brownlee A

Publication Type   Conference Proceeding / Conference Paper

Is Published   Yes

Identifiers:

PubMed ID

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:

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

Journal	IEEE Transactions on Evolutionary Computation (V: , #: , Pg: 1-1)

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

Secondary Authors	Yu Y, Tang K, Jin Y, Yao X, Zhou ZH
Publication Type	Journal Article / Review
Is Published	Yes
Journal	Evolutionary computation (V: , #: , Pg: 1-31)

Identifiers:

PubMed ID	27982697
Digital ID	10.1162/EVCO_a_00201
ISSN (Print)	1530-9304
ISSN (Digital)	1530-9304
ISSN (Linking)	1063-6560

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
ISSN (Digital)	2168-2275
ISSN (Linking)	2168-2267

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

- Submitted on, 10 Mar 2017

Publication date	2016
First Named Author	Yang M
Secondary Authors	Omidvar M, Li C, Li X, Cai Z, Kazimipour B, Yao X
Publication Type	Journal Article / Review
Is Published	Yes
Journal	IEEE Transactions on Evolutionary Computation (V: , #: , Pg: 1-1)

Identifiers:

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:

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:

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:

- Submitted on, 10 Mar 2017

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:

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

Chapter Number	27
Chapter Pages	390-405
Chapter Author	Li K
Is Published	Yes

Identifiers:

PubMed ID	
Digital ID	10.1007/978-3-319-54157-0_27
ISSN (Print)	1611-3349
ISSN (Digital)	0302-9743
ISSN (Linking)	

Dealing with Multiple Classes in Online Class Imbalance Learning

Publication date	2016
First Named Author	Wang S
Secondary Authors	Minku L, Yao X
Publication Type	Conference Proceeding / Conference Paper

Identifiers:

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

Improving the performance of evolutionary engine calibration algorithms with principal component analysis

Publication date	2016
First Named Author	Tayarani-N M
Secondary Authors	Bennett A, Xu H, Yao X

Publication Type	Conference Proceeding / Conference Paper
Is Published	Yes

Identifiers:

PubMed ID	
Digital ID	10.1109/CEC.2016.7748340
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	Speciated Evolutionary Algorithm for Dynamic Constrained Optimisation
Chapter Number	19
Chapter Pages	203-213
Chapter Author	Lu X
Is Published	Yes

Identifiers:

PubMed ID	
Digital ID	10.1007/978-3-319-45823-6_19
ISSN (Print)	1611-3349
ISSN (Digital)	0302-9743
ISSN (Linking)	

Robust Online Time Series Prediction with Recurrent Neural Networks

Publication date	2016
First Named Author	Guo T
Secondary Authors	Xu Z, Yao X, Chen H, Aberer K, Funaya K
Publication Type	Conference Proceeding / Conference Paper
Is Published	Yes

Identifiers:

PubMed ID	
Digital ID	10.1109/DSAA.2016.92
ISSN (Print)	
ISSN (Digital)	
ISSN (Linking)	

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:

PubMed ID	
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

Publication date   2016

First Named Author   Omidvar M

Secondary Authors   Kazimipour B, Li X, Yao X

Publication Type   Conference Proceeding / Conference Paper

Is Published   Yes

Identifiers:

PubMed ID

Digital ID   10.1109/CEC.2016.7744238

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   An Evolutionary Hyper-heuristic for the Software Project Scheduling Problem

Chapter Number   4

Chapter Pages   37-47

Chapter Author   Wu X

Is Published   Yes

Identifiers:

PubMed ID

Digital ID   10.1007/978-3-319-45823-6_4

ISSN (Print)   1611-3349

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:

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:

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:

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:

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
Chapter Number	
Chapter Pages	
Chapter Author	

Identifiers:

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

Communities of Local Optima as Funnels in Fitness Landscapes

Publication date	2016

First Named Author	Herrmann S
Secondary Authors	Ochoa G, Rothlauf F
Publication Type	Conference Proceeding / Conference Paper
Is Published	Yes

Identifiers:

Evolutionary Computation in Combinatorial Optimization

Publication date	2016
First Named Author	
Other Authors	
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:

Threats to the validity of mutation-based test assessment

Test oracle assessment and improvement

An experimental search-based approach to cohesion metric evaluation

Publication date	2016
First Named Author	Ó Cinnéide M
Secondary Authors	Hemati Moghadam I, Harman M, Counsell S, Tratt L
Publication Type	Journal Article / Review
Is Published	Yes
Journal	Empirical Software Engineering (V: , #: , Pg:)

Identifiers:

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

Publication date	2017
First Named Author	Li J
Secondary Authors	John R, Coupland S, Kendall G
Publication Type	Journal Article / Review
Is Published	Yes
Journal	IEEE Transactions on Fuzzy Systems (V: , #: , Pg: 1-1)

Identifiers:

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:

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)

Identifiers:

Genetic Programming

Publication date   2017

First Named Author

Other Authors

Publication Type   Book Chapter

Chapter Title   Exploring Fitness and Edit Distance of Mutated
                             Python Programs

Chapter Number   2

Chapter Pages   19-34

Chapter Author   Haraldsson S

Is Published   Yes

Publication ID   10.1007/978-3-319-55696-3_2

Identifiers:

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

Publication date   2017

First Named Author	Haraldsson S
Secondary Authors	Woodward JR, Brownlee A
Publication Type	Conference Proceeding / Conference Paper

Identifiers:

Data Source	
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	Coarse-Grained Barrier Trees of Fitness Landscapes
Chapter Number	84
Chapter Pages	901-910
Chapter Author	Herrmann S
Is Published	Yes

Identifiers:

PubMed ID	
Digital ID	10.1007/978-3-319-45823-6_84
ISSN (Print)	1611-3349
ISSN (Digital)	0302-9743
ISSN (Linking)	

Publication date   2016

First Named Author

Other Authors

Publication Type   Book Chapter

Chapter Title   Tunnelling Crossover Networks for the Asymmetric TSP

Chapter Number   93

Chapter Pages   994-1003

Chapter Author   Veerapen N

Is Published   Yes

Identifiers:

PubMed ID

Digital ID   10.1007/978-3-319-45823-6_93

ISSN (Print)   1611-3349

ISSN (Digital)   0302-9743

ISSN (Linking)

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:

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:

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

Identifiers:

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:

- Submitted on, 10 Mar 2017

Polytypic Genetic Programming

Identifiers:

Genetic Programming

Identifiers:

Genetic Programming Theory and Practice XIV

Publication date	2016
First Named Author	Swan J
Secondary Author	Krzysztof K
Publication Type	Book Chapter
Chapter Title	Discovering relational structure in program synthesis problems with analogical reasoning
Chapter Number	
Chapter Pages	
Chapter Author	

Identifiers:

Parallel Problem Solving from Nature -- PPSN XIV: 14th International Conference, Edinburgh, UK, September 17-21, 2016, Proceedings

Publication date	08 2016
First Named Author	
Secondary Authors	Handl Julia, Lewis Peter R., Lopez-Ibanez Manuel, Ochoa Gabriela
Publication Type	Book
Is Published	

Identifiers:

PubMed ID

Digital ID

ISSN (Print)

ISSN (Digital)

ISSN (Linking)