

AUTHORS	TITLE	PUBLICATION	YEAR	CITATION KEY (YEAR-AUTHOR-PUBL)
Allysson Allex Araújo, Matheus Paixao, Italo Yeltsin, Altino Dantas, & Jerffeson Souza	An Architecture based on interactive optimization and machine learning applied to the next release problem	Automated Software Engineering	2016	2016-Araujo-ASE
Thiago do Nascimento Ferreira and Allysson Allex Araújo and Altino Dantas Basílio Neto and Jerffeson Teixeira de Souza	Incorporating user preferences in ant colony optimization for the next release problem	Applied Soft Computing, vol. 49, pp. 1283-1296	2016	2016-Ferreira-ASC
Yun Lin, Xin Peng, Yuanfang Cai, Danny Dig, Diwen Zheng, Wenyun Zhao	Interactive and Guided Architectural Refactoring with Search-Based Recommendation	Proceedings of the 24th ACM SIGSOFT International Symposium on Foundations of Software Engineering	2016	2016-Lin-FSE
Hong Lu, Tao Yue, Shaukat Ali & Li Zhang	Nonconformity Resolving Recommendations for Product Line Configuration	2016 IEEE International Conference on Software Testing, Verification and Validation (ICST)	2016	2016-Lu-ICST
Hong Lu, Li Zhang & Tao Yue	Differential IBEA for non-conformity resolution in interactive CPS production line configuration	Ruan Jian Xue Bao/Journal of Software	2016	2016-Lu-JoS
Bogdan Marculescu, Simon Poulding, Robert Feldt, Kai Petersen & Richard Torkar	Tester Interactivity Makes a Difference in Search-based Software Testing	Information and Software Technology, vol. 78, pp.66-82	2016	2016-Marculescu-IST
Mohamed Wiem Mkaouer	Interactive Code Smells Detection: An Initial Investigation	Proceedings of the 8th Symposium on Search Based Software Engineering	2016	2016-Mkaouer-SSBSE
Yi Qin, Chang Xu, Ping Yu & Jian Lu	SIT: Sampling-based interactive testing for self-adaptive apps	Journal of Systems and Software, vol. 120, pp. 70-88	2016	2016-Qin-JSS
Chris Simons & Jim Smith	Exploiting antipheromone in ant colony optimisation for interactive search-based software design and refactoring	Proceedings Genetic and Evolutionary Computation Conference, GECCO'16	2016	2016-Simons-GECCO

Luigi Troiano, Cosimo Birtolo & Roberto Armenise	A validation study regarding a generative approach in choosing appropriate colors for impaired users	SpringerPlus, vol. 1-26	2016	2016-Troiano-SP
T. Yue and S. Ali and H. Lu and K. Nie	Search-based decision ordering to facilitate product line engineering of Cyber-Physical System	2016 4th International Conference on Model-Driven Engineering and Software Development (MODELSWARD)	2016	2016-Yue-MODELS
Altino Dantas, Italo Yeltsin, Allysson Alex Araújo & Jerffeson Souza	Interactive Software Release Planning with Preferences Base	Proceedings of the 7th International Symposium on Search-Based Software Engineering (SSBSE '15), pp. 341-346, Bergamo Italy, 5-7 September	2015	2015-Dantas-SSBSE
A.E. El Yamany, M. Shaheen, A. Salam	Smart OptiSelect Preference Based Innovative Framework for User-in-the-loop Feature Selectoin in Software Product Lines	The 7th International Conference on Information Technology (ICIT)	2015	2015-EIYamany-ICIT
Bogdan Marculescu, Robert Feldt, Richard Torkar & Simon Poulding	An Initial Industrial Evaluation of Interactive Search-based Testing for Embedded Software	Applied Soft Computing, Vol. 29, pp. 26-39, April	2015	2015-Marculescu-ASC
Bogdan Marculescu, Simon M. Poulding, Robert Feldt & Kai Petersen, Richard Torkar	Tester Interactivity makes a Difference in Search-Based Software Testing: A Controlled Experiment	CoRR abs/1512.04812 (TR, ARXIV)	2015	2015-Marculescu-ARXIV
Antônio Mauricio Pitangueira	Incorporating preferences from multiple stakeholders in software requirements selection: an interactive search-based approach	23rd IEEE International Requirements Engineering Conference, RE 2015, Ottawa, ON, Canada, August 24-28, 2015	2015	2015-Pitangueira-RE
Chris Simons, Jeremy Singer & David R. White	Search-Based Refactoring: Metrics Are Not Enough	7th International Symposium, SSBSE 2015, Bergamo, Italy, September 5-7, 2015, Proceedings	2015	2015-Simons-SSBSE
Philop Achimugu, Ali Selamat & Roliana Ibrahim	A Web-Based Multi-Criteria Decision Making Tool for Software Requirements Prioritization	6th International Conference Computational Collective Intelligence. Technologies and Applications, ICCCI 2014	2014	2014-Achimugu-ICCCI
Boukhdhir Amal, Marouane Kessentini, Slim Bechikh, Josselin Dea & Lamjed Ben Said	On the Use of Machine Learning and Search-Based Software Engineering for Ill-Defined Fitness Function: A Case Study on Software Refactoring	6th International Symposium, SSBSE 2014, Fortaleza, Brazil, August 26-29, 2014. Proceedings	2014	2014-Amal-SSBSE

Allysson Allex Araújo & Matheus Henrique Esteves Paixão	Machine Learning for User Modeling in an Interactive Genetic Algorithm for the Next Release Problem	Proceedings of the 6th International Symposium on Search-Based Software Engineering (SSBSE '14), Vol. 8636, pp. 228-233, Fortaleza Brazil, 26-29 August	2014	2014-Araujo-SSBSE
Ahmed Eid El Yamany, Mohamed Shaheen & Abdel Salam Sayyad	OPTI-SELECT: An interactive tool for user-in-the-loop feature selection in software product lines	Proceedings of the 18th International Software Product Line Conference: Companion Volume for Workshops, Demonstrations and Tools - Volume 2	2014	2014-EIYamany-SPLC
Mohamed Wiem Mkaouer, Marouane Kessentini, Slim Bechikh, Kalyanmoy Deb & Mel Ó Cinnéide	Recommendation system for software refactoring using innovization and interactive dynamic optimization	ASE 2014 - Proceedings of the 29th ACM/IEEE International Conference on Automated Software Engineering	2014	2014-Mkaouer-ASEC
Christopher L. Simons, Jim Smith & Paul White	Interactive Ant Colony Optimization (iACO) for Early Lifecycle Software Design	Swarm Intelligence, Vol. 8(2), pp. 139-157, June	2014	2014-Simons-SI
Luigi Troiano and Cosimo Birtolo	Genetic algorithms supporting generative design of user interfaces: Examples	Information Sciences, vol. 259, pp. 433-451	2014	2014-Troiano-IS
Tao Xie, Lu Zhang, Xusheng Xiao, Ying-Fei Xiong & Dan Hao	Cooperative Software Testing and Analysis: Advances and Challenges	Journal of Computer Science and Technology, vol. 29(4), pp. 713-723	2014	2014-Xie-CST
Zhang, T. and Song, M. and Kim, M.	Critics: An interactive code review tool for searching and inspecting systematic changes	Proceedings of the ACM SIGSOFT Symposium on the Foundations of Software Engineering	2014	2014-Zhang-FSE
Márcio de Oliveira Barros	An Experimental Study on Incremental Search-Based Software Engineering	5th International Symposium, SSBSE 2013, St. Petersburg, Russia, August 24-26, 2013. Proceedings	2013	2013-deOliveira-SSBSE
Adnane Ghannem, Ghizlane El Boussaidi & Marouane Kessentini	Model Refactoring using Interactive Genetic Algorithm	Proceedings of the 5th International Symposium on Search Based Software Engineering (SSBSE '13), Vol. 8084, pp. 96-110, St. Petersburg Russia, 24-26 August	2013	2013-Ghannem-SSBSE
Sabrine Kalboussi, Slim Bechikh, Marouane Kessentini & Lamjed Ben Said	Preference-Based Many-Objective Evolutionary Testing Generates Harder Test Cases for Autonomous Agents	5th International Symposium Search Based Software Engineering, SSBSE 2013	2013	2013-Kalboussi-SSBSE

Bogdan Marculescu, Robert Feldt & Richard Torkar	Objective Re-Weighting to Guide an Interactive Search Based Software Testing System	Proceedings of the 12th International Conference on Machine Learning and Applications (ICMLA '13), pp. 102-107, Miami Florida USA, 4-7 December	2013	2013-Marculescu-ICMLA
Bogdan Marculescu, Robert Feldt & Richard Torkar	Practitioner-Oriented Visualization in an Interactive Search-Based Software Test Creation Tool	Proceedings of the 20th Asia-Pacific Software Engineering Conference (APSEC '13), pp. 87-92, Bangkok Thailand, 2-5 December	2013	2013-Marculescu-APSEC
Christopher L. Simons	Whither (away) Software Engineers in SBSE?	Proceedings of the 1st International Workshop on Combining Modelling and Search-Based Software Engineering (CMSBSE '13), pp. 49-50, San Francisco CA USA, 20-20 May	2013	2013-Simons-CMSBSE
Christopher L. Simons & Jim Smith	A Comparison of Meta-heuristic Search for Interactive Software Design	Soft Computing, vol. 17(11), pp. 2147-2162, April	2013	2013-Simons-SC
Paolo Tonella, Angelo Susi & Francis Palma	Interactive Requirements Prioritization using a Genetic Algorithm	Information and Software Technology, vol. 55(1), pp. 173-187, January	2013	2013-Tonella-IST
Sriharsha Vathsavayi, Hadaytullah & Kai Koskimies	Interleaving human and search-based software architecture design	Proc. Estonian Academy of Sciences, vol. 62(1), pp. 16-26	2013	2013-Vathsavayi-EAS
J. Wang and X. Peng and Z. Xing and W. Zhao	Improving feature location practice with multi-faceted interactive exploration	2013 35th International Conference on Software Engineering (ICSE), pp. 762-771	2013	2013-Wang-ICSE
Gabriele Bavota, Filomena Carnevale, Andrea De Lucia, Massimiliano Di Penta & Rocco Oliveto	Putting the Developer in-the-Loop: An Interactive GA for Software Re-modularization	Proceedings of the 4th International Symposium on Search Based Software Engineering (SSBSE '12), Vol. 7515, pp. 75-89, Riva del Garda Italy, 28-30 September	2012	2012-Bavota-SSBSE
J. E. Jridi and H. Sahraoui and P. Langlais	Program analysis using interactive and visual querying	2012 ICSE Workshop on Search-Driven Development - Users, Infrastructure, Tools and Evaluation (SUITE), pp. 13-16	2012	2012-Jridi-SUITE
Bogdan Marculescu, Robert Feldt & Richard Torkar	A Concept for an Interactive Search-Based Software Testing System	Proceedings of the 4th International Symposium on Search Based Software Engineering (SSBSE '12), Vol. 7515, pp. 273-278, Riva del Garda Italy, 28-30 September	2012	2012-Marculescu-SSBSE

Christopher L. Simons & Ian C. Parmee	Elegant Object-Oriented Software Design via Interactive, Evolutionary Computation	IEEE Transactions on Systems, Man, and Cybernetics, Part C: Applications and Reviews, Vol. 42(6), pp. 1797-1805, November	2012	2012-Simons-SMC
Christopher L. Simons, Jim Smith & Paul White	Interactive Ant Colony Optimization (iACO) for Early Lifecycle Software Design	CoRR abs/1212.5461 (TR, ARXIV)	2012	2012-Simons-ARXIV
Christopher L. Simons & Jim Smith	A Comparison of Meta-heuristic Search for Interactive Software Design	CoRR abs/1211.3371 (TR, ARXIV)	2012	2012-Simons-ARXIV-b
Francis Palma, Angelo Susi & Paolo Tonella	Using an SMT solver for interactive requirements prioritization	Proceedings of the 19th ACM SIGSOFT symposium and the 13th European conference on Foundations of software engineering (ESEC/FSE), pp. 48-58	2011	2011-Palma-ESEC
Sriharsha Vathsavayi, Hadaytullah & Kai Koskimies	Interleaving human and search-based software architecture design	12th Symposium on Programming Languages and Software Tools	2011	2011-Vathsavayi-SPLST
Christopher L. Simons, Ian C. Parmee & Rhys Gwynllyw	Interactive, Evolutionary Search in Upstream Object-Oriented Class Design	IEEE Transactions on Software Engineering, Vol. 36(6), pp. 798-816, November-December	2010	2010-Simons-TSE
Christopher L. Simons & Ian C. Parmee	Dynamic parameter control of interactive local search in UML software design	Proceedings of the IEEE International Conference on Systems, Man and Cybernetics, Istanbul, Turkey, 10-13 October 2010	2010	2010-Simons-SMCC
Paolo Tonella, Angelo Susi & Francis Palma	Using Interactive GA for Requirements Prioritization	Proceedings of the 2nd International Symposium on Search Based Software Engineering (SSBSE '10), pp. 57-66, Benevento Italy, 7-9 September	2010	2010-Tonella-SSBSE
Stefan Axelsson, Dejan Baca, Robert Feldt, Darius Sidlauskas & Denis Kacan	Detecting Defects with an Interactive Code Review Tool Based on Visualisation and Machine Learning	Proceedings of the 21st International Conference on Software Engineering & Knowledge Engineering (SEKE), pp. 412-417	2009	2009-Axelsson-SEKE
Cosimo Birtolo, Paolo Pagano & Luigi Troiano	Evolving colors in user interfaces by interactive genetic algorithm	World Congress on Nature Biologically Inspired Computing, 2009. NaBIC 2009	2009	2009-Birtolo-NaBIC

W.B.Langdon	Evo_Indent Interactive Evolution of GNU Indent Option	In <i>GECCO (Companion) Late Breaking Paper</i> (pp. 2081-2084).	2009	2009-Langdon-GECCO
J. Quiroz, S. Louis, A. Banerjee, S. Dascalu	Towards creative design using collaborative interactive genetic algorithm	IEEE Congress on Evolutionary Computation	2009	2009-Quiroz-CEC
Christopher L. Simons & Ian C. Parmee	An Empirical Investigation of Search-based Computational Support for Conceptual Software Engineering Design	Proceedings of IEEE International Conference on Systems, Man and Cybernetics (SMC '09), pp. 2503-2508, San Antonio USA, 11-14 October	2009	2009-Simons-SMCC
Luigi Troiano, Cosimo Birtolo & Gennaro Cirillo	Interactive Genetic Algorithm for choosing suitable colors in User Interface	Proceedings of Learning and Intelligent Optimization, LION3	2009	2009-Troiano-LION
A. Banerjee, J.C. Quiroz, S.J. Louis	A model of creative design using collaborative interactive genetic algorithm	International Conference on Design Computing and Cognition	2008	2008-Banerjee-DCC
Christopher L. Simons & Ian C. Parmee Keijzer, M. (Hrsg.)	Agent-based Support for Interactive Search in Conceptual Software Engineering Design	Proceedings of the 10th Annual Conference on Genetic and Evolutionary Computation (GECCO '08), pp. 1785-1786, Atlanta GA USA, 12-16 July	2008	2008-Simons-GECCO
Christopher L. Simons & Ian C. Parmee	User-centered, Evolutionary Search in Conceptual Software Design	Proceedings of the IEEE Congress on Evolutionary Computation (CEC '08) (World Congress on Computational Intelligence), pp. 869-876, Hong Kong China, 1-6 June	2008	2008-Simons-CEC
Thomas Neubauer & Christian Stummer	Interactive Decision Support for Multiobjective COTS Selection	40th Annual Hawaii International Conference on System Sciences (HICSS)	2007	2007-Neubauer-HICSS
J. Quiroz, S. Louis, A. Shankar, S. Dascalu	Interactive genetic algorithms for user interface design	IEEE Congress on Evolutionary Computation	2007	2007-Quiroz-CEC
D. Hao and L. Zhang and H. Mei and J. Sun	Towards Interactive Fault Localization Using Test Information	2006 13th Asia Pacific Software Engineering Conference (APSEC'06), pp. 277-284	2006	2006-Hao-APSEC

Prasad Kulkarni, Wankang Zhao, Stephen Hines, David Whalley, Xin Yuan, Robert Engelen, Kyle van and Gallivan, Jason Hiser, Jack Davidson, Baosheng Cai, Mark Bailey, Hwashin Moon, Kyunghwan Cho & Yunheung Paek	VISTA: VPO Interactive System for Tuning Applications	ACM Trans. Embed. Comput. Syst. Vol. 5(4), pp. 819-863	2006	2006-Kulkarni-TECS
R. Kamalian, H. Takagi & A.M. Agogino	Optimized design of MEMS by evolutionary multi-objective optimization with interactive evolutionary computation	Genetic and Evolutionary Computation Conference, Seattle, WA, USA, June 26-30, 2004. Proceedings, Part II	2004	2004-Kamalian-GECCO
Robert Feldt	An Interactive Software Development Workbench based on Biomimetic Algorithms	Tech. Report. (02-16), Gothenburg Sweden, November	2002	2002-Feldt-TR
A. Oliver, O. Regragui, N. Monmarché, G. Venturini	Optimisation génétique et interactive de sites web	Technique et Science Informatiques	2002	2002-Oliver-TSI
A. Oliver, N. Monmarch, G. Venturini	Interactive design of web sites with a genetic algorithm	IADIS International Conference WWW/Internet	2002	2002-Oliver-IADIS
N. Monmarché, G. Nocent, M. Slimane, G. Venturini	On Generating HTML Style Sheets with an Interactive Genetic Algorithm Based on Gene Frequencies	European Conference on Artificial Evolution	1999	1999-Monmarche-ECAE
N. Monmarché, G. Nocent, M. Slimane, G. Venturini	Imagine: a tool for generation HTML style sheets with an interactive genetic algorithm based on genes frequencies	IEEE International Conference on Systems, Man and Cybernetics	1999	1999-Monmarche-SMCC
C.A. Damon	Nitpick: A tool for interactive design analysis	Proceedings of the 1997 International Conference on Software Engineering, pp. 596-597	1997	1997-Damon-ICSE

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CANDIDATE PAPERS: REFERENCE INFORMATION					APPLICATION OF EXCLUSION CRITERIA	
AUTHORS	TITLE	PUBLICATION	YEAR	CITATION KEY	ITEM NUMBER ACCORDING TO THE SLR PROTOCOL	COMMENTS, NOTES... ABOUT THE DECISION TO BE REMINDED
Hong Lu, Tao Yue, Shaukat Ali & Li Zhang	Nonconformity Resolving Recommendations for Product Line Configuration	2016 IEEE International Conference on Software Testing, Verification and Validation (ICST)	2016	2016-Lu-ICST	2	Interactions occurs before running the search algorithm in order to generate one input parameter. Besides, the process is not described.
Hong Lu, Li Zhang & Tao Yue	Differential IBEA for non-conformity resolution in interactive CPS production line configuration	Ruan Jian Xue Bao/Journal of Software	2016	2016-Lu-JoS	4	
Yi Qin, Chang Xu, Ping Yu & Jian Lu	SIT: Sampling-based interactive testing for self-adaptive apps	Journal of Systems and Software, vol. 120, pp. 70-88	2016	2016-Qin-JSS	Mandatory inclusion criteria are not satisfied	The approach does not include human's interactivity. Interaction is related to the execution environment.
Chris Simons & Jim Smith	Exploiting antipheromone in ant colony optimisation for interactive search-based software design and refactoring	Proceedings Genetic and Evolutionary Computation Conference, GECCO'16	2016	2016-Simons-GECCO	Mandatory inclusion criteria are not satisfied	It is a poster paper, so there is not sufficient information about the interactive model. The experimentation sets a fixed fitness function, so the user does not really interact to solve the SE task.
T. Yue and S. Ali and H. Lu and K. Nie	Search-based decision ordering to facilitate product line engineering of Cyber-Physical System	2016 4th International Conference on Model-Driven Engineering and Software Development (MODELSWARD)	2016	2016-Yue-MODELS	Mandatory inclusion criteria are not satisfied	The interaction with the user is part of a preprocessing step, then the search is executed with this information but without interaction.

A.E. El Yamany, M. Shaheen, A. Salam	Smart OptiSelect Preference Based Innovative Framework for User-in-the-loop Feature Selectoin in Software Product Lines	The 7th International Conference on Information Technology (ICIT)	2015	2015-EIYamamy-ICIT	5	The conference does not appear in CORE ranking.
Bogdan Marculescu, Simon M. Poulding, Robert Feldt & Kai Petersen, Richard Torkar	Tester Interactivity makes a Difference in Search-Based Software Testing: A Controlled Experiment	CoRR abs/1512.04812 (TR, ARXIV)	2015	2015-Marculescu-ARXIV	TR, Variant of other work	This technical report explains the same findings than 2016-Marculescu-IST
Antônio Mauricio Pitangueira	Incorporating preferences from multiple stakeholders in software requirements selection: an interactive search-based approach	23rd IEEE International Requirements Engineering Conference, RE 2015, Ottawa, ON, Canada, August 24-28, 2015	2015	2015-Pitangueira-RE	Mandatory inclusion criteria are not satisfied	This papers is a proposal for a Doctoral Symposium**. It discusses some challenges but it does not propose any specific interactive model.
Chris Simons, Jeremy Singer & David R. White	Search-Based Refactoring: Metrics Are Not Enough	7th International Symposium, SSBSE 2015, Bergamo, Italy, September 5-7, 2015, Proceedings	2015	2015-Simons-SSBSE	Mandatory inclusion criteria are not satisfied	The human-in-the-loop is discussed as a necessary approach in SBSE after an empirical investigation on the use of design metrics.
Philop Achimugu, Ali Selamat & Roliana Ibrahim	A Web-Based Multi-Criteria Decision Making Tool for Software Requirements Prioritization	6th International Conference Computational Collective Intelligence. Technologies and Applications, ICCCI 2014	2014	2014-Achimugu-ICCCI	2	
Allysson Allex Araújo & Matheus Henrique Esteves Paixão	Machine Learning for User Modeling in an Interactive Genetic Algorithm for the Next Release Problem	Proceedings of the 6th International Symposium on Search-Based Software Engineering (SSBSE '14), Vol. 8636, pp. 228-233, Fortaleza Brazil, 26-29 August	2014	2014-Araujo-SSBSE	Variant of other work	It is a preliminar version of 2016-Araujo-ASE. Only the journal paper is considered because it gives a more detailed description of the interactive model and a more complete experimentation.

Luigi Troiano and Cosimo Birtolo	Genetic algorithms supporting generative design of user interfaces: Examples	Information Sciences, vol. 259, pp. 433-451	2014	2014-Troiano-IS	Mandatory inclusion criteria are not satisfied	The same problem than NaBIC2009 but using a simple GA (mentioned in page 7). In the concluding remarks, the authors explain that the current proposal is not a real interactive algorithm yet.
Tao Xie, Lu Zhang, Xusheng Xiao, Ying-Fei Xiong & Dan Hao	Cooperative Software Testing and Analysis: Advances and Challenges	Journal of Computer Science and Technology, vol. 29(4), pp. 713-723	2014	2014-Xie-CST	Mandatory inclusion criteria are not satisfied	It is a survey/discussion paper and does not propose any interactive algorithm.
Zhang, T. and Song, M. and Kim, M.	Critics: An interactive code review tool for searching and inspecting systematic changes	Proceedings of the ACM SIGSOFT Symposium on the Foundations of Software Engineering	2014	2014-Zhang-FSE	Mandatory inclusion criteria are not satisfied	The user participates in the preprocessing process, refining a template that is then used to search (not in the sense of AI).
Márcio de Oliveira Barro	An Experimental Study on Incremental Search-Based Software Engineering	5th International Symposium, SSBSE 2013, St. Petersburg, Russia, August 24-26, 2013. Proceedings	2013	2013-deOliveira-SSBSE	Mandatory inclusion criteria are not satisfied	Interactivity is discussed as a complementary approach to the one proposed (named incremental) but it is not really implemented.
Sabrine Kalboussi, Slim Bechikh, Marouane Kessentini & Lamjed Ben Said	Preference-Based Many-Objective Evolutionary Testing Generates Harder Test Cases for Autonomous Agents	5th International Symposium Search Based Software Engineering, SSBSE 2013	2013	2013-Kalboussi-SSBSE	2	The user is only required to configure the weights (user's preferences) for each objective before running the algorithm.
Bogdan Marculescu, Robert Feldt & Richard Torkar	Practitioner-Oriented Visualization in an Interactive Search-Based Software Test Creation Tool	Proceedings of the 20th Asia-Pacific Software Engineering Conference (APSEC '13), pp. 87-92, Bangkok Thailand, 2-5 December	2013	2013-Marculescu-APSEC	Variant of other work	This paper is similar to 2013-Marculescu-ICMLA (accepted as primary study).

Christopher L. Simons	Whither (away) Software Engineers in SBSE?	Proceedings of the 1st International Workshop on Combining Modelling and Search-Based Software Engineering (CMSBSE '13), pp. 49-50, San Francisco CA USA,	2013	2013-Simons-CMSBSE	Mandatory inclusion criteria are not satisfied	It is a discussion paper about the role of the engineer in SBSE/iSBSE.
Christopher L. Simons & Jim Smith	A Comparison of Meta-heuristic Search for Interactive Software Design	Soft Computing, vol. 17(11), pp. 2147-2162, April	2013	2013-Simons-SC	Mandatory inclusion criteria are not satisfied	It is a comparative study of different search techniques, and the role of the engineer is not considered in the experimental framework.
J. E. Jridi and H. Sahraoui and P. Langlais	Program analysis using interactive and visual querying	2012 ICSE Workshop on Search-Driven Development - Users, Infrastructure, Tools and Evaluation (SUITE), pp. 13-16	2012	2012-Jridi-SUITE	2*	The user applies different filters but he/she has no influence on the results or the behaviour of the systems from a search perspective.
Bogdan Marculescu, Robert Feldt & Richard Torkar	A Concept for an Interactive Search-Based Software Testing System	Proceedings of the 4th International Symposium on Search Based Software Engineering (SSBSE '12), Vol. 7515, pp. 273-278, Riva del Garda Italy, 28-30 September	2012	2012-Marculescu-SSBSE	Variant of other work	It is a preliminar version of 2015-Marculescu-ASC. In the conference paper the model is presented as a theoretical model and no experimental result is reported.
Christopher L. Simons, Jim Smith & Paul White	Interactive Ant Colony Optimization (iACO) for Early Lifecycle Software Design	CoRR abs/1212.5461 (TR, ARXIV)	2012	2012-Simons-ARXIV	TR, Variant of other work	This technical report discusses the same findings than 2014-Simons-SI
Christopher L. Simons & Jim Smith	A Comparison of Meta-heuristic Search for Interactive Software Design	CoRR abs/1211.3371 (TR, ARXIV)	2012	2012-Simons-ARXIV-b	TR, Variant of other work	This technical report discusses the same findings than 2013-Simons-SC

Sriharsha Vathsavayi, Hadaytullah & Kai Koskimies	Interleaving human and search-based software architecture design	12th Symposium on Programming Languages and Software Tools	2011	2011-Vathsavayi-SPLST	4, Variant of other work	Same paper than 2013-Vathsavayi-EAS, full text non-available
Christopher L. Simons & Ian C. Parmee	Dynamic parameter control of interactive local search in UML software design	Proceedings of the IEEE International Conference on Systems, Man and Cybernetics, Istanbul, Turkey, 10-13 October 2010	2010	2010-Simons-SMCC	2	It is a parameter study of different mechanisms to control a local search procedure. Experiments do not involve or simulate human beings.
Paolo Tonella, Angelo Susi & Francis Palma	Using Interactive GA for Requirements Prioritization	Proceedings of the 2nd International Symposium on Search Based Software Engineering (SSBSE '10), pp. 57-66, Benevento Italy, 7-9 September	2010	2010-Tonella-SSBSE	Variant of other work	There is a the journal paper where the authors detail the aspects that have been extended (a comparison study, more experiments). The first part of the experimentation is the same for both papers.
W.B.Langdon	Evo_Indent Interactive Evolution of	In <i>GECCO (Companion) Late Breaking Paper</i> (pp. 2081-2084).	2009	2009-Langdon-GECCO	5	This interactive (1+3)-ES algothm is interesting and well described. However, it is a 3 page late breaking paper, with little or no evaluation, and no evidence that the publication has followed an accurate scientific peer-review rating
J. Quiroz, S. Louis, A. Banerjee, S. Dascalu	Towards creative design using collaborative interactive genetic algorithm	IEEE Congress on Evolutionary Computation	2009	2009-Quiroz-CEC	1	
Luigi Troiano, Cosimo Birtolo & Gennaro Cirillo	Interactive Genetic Algorithm for choosing suitable colors in User Interface	Proceedings of Learning and Intelligent Optimization, LION3	2009	2009-Troiano-LION	Variant of other work	The same IGA is already presented in 2009-Troiano-NaBIC. Both papers present very similar findings, so the one that seems to be more complete and that is referenced in the journal paper has been chosen.

A. Banerjee, J.C. Quiroz, S.J. Louis	A model of creative design using collaborative interactive genetic algorithm	International Conference on Design Computing and Cognition	2008	2008-Banerjee-DCC	1, Variant of other work	Two optimisation problems are considered, but only one can be framed into the SE process. In addition, it is similar to 2007-Quiroz-CEC, which provides more detailed information and experimentation
Christopher L. Simons & Ian C. Parmee Keijzer, M. (Hrsg.)	Agent-based Support for Interactive Search in Conceptual Software Engineering Design	Proceedings of the 10th Annual Conference on Genetic and Evolutionary Computation (GECCO '08), pp. 1785-1786, Atlanta GA USA, 12-16 July	2008	2008-Simons-GECCO	Variant of other work	It is a preliminar version of 2010-Simons-TSE. It is a poster paper, so it does not describe the interactive model in detail. Only a case study (figure) is included, so it is better to consider the journal.
Christopher L. Simons & Ian C. Parmee	User-centered, Evolutionary Search in Conceptual Software Design	Proceedings of the IEEE Congress on Evolutionary Computation (CEC '08) (World Congress on Computational Inteligence), pp. 869-876, Hong Kong China, 1-6 June	2008	2008-Simons-CEC	Variant of other work	It reports the same results than 2010-Simons-TSE. ***
Thomas Neubauer & Christian Stummer	Interactive Decision Support for Multiobjective COTS Selection	40th Annual Hawaii International Conference on System Sciences (HICSS)	2007	2007-Neubauer-HICSS	2	The proposed interactive approach only consider the participation of the human after the execution of the algorithm.
D. Hao and L. Zhang and H. Mei and J. Sun	Towards Interactive Fault Localization Using Test Information	2006 13th Asia Pacific Software Engineering Conference (APSEC'06), pp. 277-284	2006	2006-Hao-APSEC	Mandatory inclusion criteria are not satisfied	The interactive approach does not involve the human being, and it is not a SBSE approach.
Prasad Kulkarni, Wankang Zhao, Stephen Hines, David Whalley, Xin Yuan, Robert Engelen, Kyle van and Gallivan, Jason	VISTA: VPO Interactive System for Tuning Applications	ACM Trans. Embed. Comput. Syst. Vol. 5(4), pp. 819-863	2006	2006-Kulkarni-TECS	Mandatory inclusion criteria are not satisfied	It does not follow a SBSE approach. The algorithm is based on compiler optimization techniques.

R. Kamalian, H. Takagi & A.M. Agogino	Optimized design of MEMS by evolutionary multi-objective optimization with interactive evolutionary computation	Genetic and Evolutionary Computation Conference, Seattle, WA, USA, June 26-30, 2004. Proceedings, Part II	2004	2004-Kamalian-GECCO	1	It is more an engineering design problem than a software engineering problem (MEMS = Microelectrical Mechanical Systems)
Robert Feldt	An Interactive Software Development Workbench based on Biomimetic Algorithms	Tech. Report. (02-16), Gothenburg Sweden, November	2002	2002-Feldt-TR	5	
A. Oliver, O. Regragui, N. Monmarché, G. Venturini	Optimisation génétique et interactive de sites web	Technique et Science Informatiques	2002	2002-Oliver-TSI	3,4,5	
A. Oliver, N. Monmarch, G. Venturini	Interactive design of web sites with a genetic algorithm	IADIS International Conference WWW/Internet	2002	2002-Oliver-IADIS	5	The conference does not appear in CORE ranking.
N. Monmarché, G. Nocent, M. Slimane, G. Venturini	On Generating HTML Style Sheets with an Interactive Genetic Algorithm Based on Gene Frequencies	European Conference on Artificial Evolution	1999	1999-Monmarche-ECAE	Variant of other work	The paper reports the same findings than 1999-Monmarche-SMCC. The latter is preferred as the conference appears in CORE ranking.
C.A. Damon	Nitpick: A tool for interactive design analysis	Proceedings of the 1997 International Conference on Software Engineering, pp. 596-597	1997	1997-Damon-ICSE	6	

Sorted by YEAR, AUTHOR'S SURNAME

PRIMARY STUDIES: REFERENCE INFORMATION				
AUTHORS	TITLE	PUBLICATION	YEAR	CITATION KEY
Yun Lin, Xin Peng, Yuanfang Cai, Danny Dig, Diwen Zheng, Wenyun Zhao	Interactive and Guided Architectural Refactoring with Search-Based Recommendation	Proceedings of the 24th ACM SIGSOFT International Symposium on Foundations of Software Engineering	2016	2016-Lin-FSE
Mohamed Wiem Mkaouer	Interactive Code Smells Detection: An Initial Investigation	Proceedings of the 8th Symposium on Search Based Software Engineering	2016	2016-Mkaouer-SSBSE
Allysson Alex Araújo, Matheus Paixao, Italo Yeltsin, Altino Dantas, & Jerffeson Souza	An Architecture based on interactive optimization and machine learning applied to the next release problem	Automated Software Engineering (in press)	2016	2016-Araujo-ASE
Thiago do Nascimento Ferreira and Allysson Alex Araújo and Altino Dantas Basílio Neto and Jerffeson Teixeira de Souza	Incorporating user preferences in ant colony optimization for the next release problem	Applied Soft Computing, vol. 49, pp. 1283-1296	2016	2016-Ferreira-ASC
Bogdan Marculescu, Simon Poulding, Robert Feldt, Kai Petersen & Richard Torkar	Tester Interactivity Makes a Difference in Search-based Software Testing	Information and Software Technology, vol. 78, pp.66-82	2016	2016-Marculescu-IST
Luigi Troiano, Cosimo Birtolo & Roberto Armenise	A validation study regarding a generative approach in choosing appropriate colors for impaired users	SpringerPlus, vol. 5, p. 1090 (26 pages)	2016	2016-Troiano-SP
Altino Dantas, Italo Yeltsin, Allysson Alex Araújo & Jerffeson Souza	Interactive Software Release Planning with Preferences Base	Proceedings of the 7th International Symposium on Search-Based Software Engineering (SSBSE '15), pp. 341-346, Bergamo Italy, 5-7 September	2015	2015-Dantas-SSBSE
Bogdan Marculescu, Robert Feldt, Richard Torkar & Simon Poulding	An Initial Industrial Evaluation of Interactive Search-based Testing for Embedded Software	Applied Soft Computing, Vol. 29, pp. 26-39, April	2015	2015-Marculescu-ASC
Boukhdhir Amal, Marouane Kessentini, Slim Bechikh, Josselin Dea & Lamjed Ben Said	On the Use of Machine Learning and Search-Based Software Engineering for Ill-Defined Fitness Function: A Case Study on Software Refactoring	6th International Symposium, SSBSE 2014, Fortaleza, Brazil, August 26-29, 2014. Proceedings	2014	2014-Amal-SSBSE

Ahmed Eid El Yamany, Mohamed Shaheen & Abdel Salam Sayyad	OPTI-SELECT: An interactive tool for user-in-the-loop feature selection in software product lines	Proceedings of the 18th International Software Product Line Conference: Companion Volume for Workshops, Demonstrations and Tools - Volume 2	2014	2014-ElYamany-SPLC
Mohamed Wiem Mkaouer, Marouane Kessentini, Slim Bechikh, Kalyanmoy Deb & Mel Ó Cinnéide	Recommendation system for software refactoring using innovization and interactive dynamic optimization	ASE 2014 - Proceedings of the 29th ACM/IEEE International Conference on Automated Software Engineering	2014	2014-Mkaouer-ASEC
Christopher L. Simons, Jim Smith & Paul White	Interactive Ant Colony Optimization (iACO) for Early Lifecycle Software Design	Swarm Intelligence, Vol. 8(2), pp. 139-157, June	2014	2014-Simons-SI
Adnane Ghannem, Ghizlane El Boussaidi & Marouane Kessentini	Model Refactoring using Interactive Genetic Algorithm	Proceedings of the 5th International Symposium on Search Based Software Engineering (SSBSE '13), Vol. 8084, pp. 96-110, St. Petersburg Russia, 24-26 August	2013	2013-Ghannem-SSBSE
Bogdan Marculescu, Robert Feldt & Richard Torkar	Objective Re-Weighting to Guide an Interactive Search Based Software Testing System	Proceedings of the 12th International Conference on Machine Learning and Applications (ICMLA '13), pp. 102-107, Miami Florida USA, 4-7 December	2013	2013-Marculescu-ICMLA
Paolo Tonella, Angelo Susi & Francis Palma	Interactive Requirements Prioritization using a Genetic Algorithm	Information and Software Technology, vol. 55(1), pp. 173-187, January	2013	2013-Tonella-IST
Sriharsha Vathsavayi, Hadaytullah & Kai Koskimies	Interleaving human and search-based software architecture design	Proc. Estonian Academy of Sciences, vol. 62(1), pp. 16-26	2013	2013-Vathsavayi-EAS
J. Wang and X. Peng and Z. Xing and W. Zhao	Improving feature location practice with multi-faceted interactive exploration	2013 35th International Conference on Software Engineering (ICSE), pp. 762-771	2013	2013-Wang-ICSE
Gabriele Bavota, Filomena Carnevale, Andrea De Lucia, Massimiliano Di Penta & Rocco Oliveto	Putting the Developer in-the-Loop: An Interactive GA for Software Re-modularization	Proceedings of the 4th International Symposium on Search Based Software Engineering (SSBSE '12), Vol. 7515, pp. 75-89, Riva del Garda Italy, 28-30 September	2012	2012-Bavota-SSBSE
Christopher L. Simons & Ian C. Parmee	Elegant Object-Oriented Software Design via Interactive, Evolutionary Computation	IEEE Transactions on Systems, Man, and Cybernetics, Part C: Applications and Reviews, Vol. 42(6), pp. 1797-1805, November	2012	2012-Simons-SMC

Francis Palma, Angelo Susi & Paolo Tonella	Using an SMT solver for interactive requirements prioritization	Proceedings of the 19th ACM SIGSOFT symposium and the 13th European conference on Foundations of software engineering (ESEC/ESE), pp. 48-58	2011	2011-Palma-ESEC
Christopher L. Simons, Ian C. Parmee & Rhys Gwynllyw	Interactive, Evolutionary Search in Upstream Object-Oriented Class Design	IEEE Transactions on Software Engineering, Vol. 36(6), pp. 798-816, November-December	2010	2010-Simons-TSE
Stefan Axelsson, Dejan Baca, Robert Feldt, Darius Sidlauskas & Denis Kacan	Detecting Defects with an Interactive Code Review Tool Based on Visualisation and Machine Learning	Proceedings of the 21st International Conference on Software Engineering & Knowledge Engineering (SEKE), pp. 412-417	2009	2009-Axelsson-SEKE
Cosimo Birtolo, Paolo Pagano & Luigi Troiano	Evolving colors in user interfaces by interactive genetic algorithm	World Congress on Nature Biologically Inspired Computing, 2009. NaBIC 2009	2009	2009-Birtolo-NaBIC
Christopher L. Simons & Ian C. Parmee	An Empirical Investigation of Search-based Computational Support for Conceptual Software Engineering Design	Proceedings of IEEE International Conference on Systems, Man and Cybernetics (SMC '09), pp. 2503-2508, San Antonio USA, 11-14 October	2009	2009-Simons-SMCC
J. Quiroz, S. Louis, A. Shankar, S. Dascalu	Interactive genetic algorithms for user interface design	IEEE Congress on Evolutionary Computation	2007	2007-Quiroz-CEC
N. Monmarché, G. Nocent, M. Slimane, G. Venturini	Imagine: a tool for generation HTML style sheets with an interactive genetic algorithm based on genes frequencies	IEEE International Conference on Systems, Man and Cybernetics	1999	1999-Monmarché-SMCC

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