Resources for Data-driven SBSE

URL

http://tiny.cc/ddSbse

Premise:

- mining software repositories can be improved using search-based methods;
- search-based methods can be improved using tools from the MSR community.

How to Contribute

Please clone this repo, propose some changes, then post a pull request. Remember, the more the merrier!

Resources:

Table 1: Different problems and associated strategies explored in this paper. The characteristic of the decision space (C/D) represents whether there are continuous or discrete in nature. The column Links represent the URL from where the problems can be download (prefix http://tiny.cc/ to the Link)

Domain	Problem	Decision Space	C/D	Projects	Description	Links	Related Work
MSR	Defect Prediction	Numeric	D	10	CK Metric	raise_data_defect	[23]
	Text Classification	Text	-	1 6 1	Citamap Pits StackOverflow	raise_data_pits raise_data_pits SOProcess	[1]
SBSE	Software Product Lines	Boolean	D	5	Product Lines	raise_data_SPL	[12]
	General Optimization	Numeric	C	7 6	DTLZ ZDT	raise_dtlz_zdt raise_dtlz_zdt	[57]
	Workflow	Numeric	D	20	Workflow	raise_gen_workflow	[11]
	Performance Optimization	Mixed	D	22	Performance Configuration optimization	raise_data_perf	[58–60]
	Text Discovery	Text	-	4	Reading Faster	raise_data_fastread	[84]
	Software Processes	Numeric	C	5 4	Xomo POM3	raise_pom_xomo	[13, 57]
	Requirement Engineering	Numeric	D	8	Requirement Engineering	raise_short	[49]

References in the *related work* column come from the paper http://tiny.cc/ddSbse1.