Supplementary material for the paper: Arkadiy Dushatskiy, Adrienne M. Mendrik, Tanja Alderliesten, and Peter A.N. Bosman. 2019. Convolutional neural network surrogate-assisted GOMEA. In Genetic and Evolutionary Computation Conference (GECCO '19), July 13-17, 2019, Prague, Czech Republic. ACM, New York, NY, USA, 9 pages. <https://doi.org/10.1145/3321707.332176>

<i>l</i>	8			16			32			64			128			256		
	<i>Low</i>	<i>Med.</i>	<i>High</i>	<i>Low</i>	<i>Med.</i>	<i>High</i>	<i>Low</i>	<i>Med.</i>	<i>High</i>	<i>Low</i>	<i>Med.</i>	<i>High</i>	<i>Low</i>	<i>Med.</i>	<i>High</i>	<i>Low</i>	<i>Med.</i>	<i>High</i>
Trap4-Tight	7	83	92	111	122	137	144	180	200	232	308	450	395	446	1091	538	795	1100
Trap4-Loose	20	86	96	108	121	135	142	181	246	233	318	432	406	556	622	546	784	852
HIFF	6	58	87	103	109	120	118	144	268	211	360	1456	349	743	1274	527	1283	4008

<i>l</i>	25			50			100			200			400			
	<i>Low</i>	<i>Med.</i>	<i>High</i>	<i>Low</i>	<i>Med.</i>	<i>High</i>	<i>Low</i>	<i>Med.</i>	<i>High</i>	<i>Low</i>	<i>Med.</i>	<i>High</i>	<i>Low</i>	<i>Med.</i>	<i>High</i>	
Onemax	101	107	119	106	114	125	114	134	151	179	201	230	254	318	681	
NK-S1	2080	5619	18166	10030	29202	75902										

Table 1: Number of required evaluations to achieve an optimum by CS-GOMEA for all problem instances. 30 runs are executed for each problem instance. Low and High values correspond to 2nd and 29th order statistics, Med. is the median value.

<i>l</i>	8			16			32			64			128			256		
	<i>Low</i>	<i>Med.</i>	<i>High</i>	<i>Low</i>	<i>Med.</i>	<i>High</i>	<i>Low</i>	<i>Med.</i>	<i>High</i>	<i>Low</i>	<i>Med.</i>	<i>High</i>	<i>Low</i>	<i>Med.</i>	<i>High</i>	<i>Low</i>	<i>Med.</i>	<i>High</i>
Trap4-Tight	38	126	199	512	716	1470	2499	4762	9397	11393	17219	26410	37113	54908	80409	80078	167720	240266
Trap4-Loose	22	120	185	562	741	1495	2235	4673	9381	8290	17077	27027	37212	46760	59160	80249	167916	172824
HIFF	9	40	105	142	245	1296	1591	2235	4735	4906	11587	18118	17045	39757	63481	82700	92195	195214

<i>l</i>	25			50			100			200			400			
	<i>Low</i>	<i>Med.</i>	<i>High</i>	<i>Low</i>	<i>Med.</i>	<i>High</i>	<i>Low</i>	<i>Med.</i>	<i>High</i>	<i>Low</i>	<i>Med.</i>	<i>High</i>	<i>Low</i>	<i>Med.</i>	<i>High</i>	
Onemax	197	256	718	488	649	1960	1329	3871	4362	6774	8505	8721	16567	16967	34363	
NK-S1	2908	7966	33780	15366	36308	72782										

Table 2: Number of required evaluations to achieve an optimum by GOMEA for all problem instances. 30 runs are executed for each problem instance. Low and High values correspond to 2nd and 29th order statistics, Med. is the median value.