	20% CS							
Dataset	PCCC	PCCC-R	COPKM	CSC	DILS	LCC	KMEANS	GT
Appendicitis	**0**	**0**	–	**0**	**0**	20	19	0
Breast Cancer	**0**	**0**	**0**	2,930	**0**	–	587	0
Bupa	**0**	**0**	**0**	1,116	**0**	**0**	875	0
Circles	**0**	**0**	**0**	**0**	**0**	–	468	0
Ecoli	**0**	**0**	–	136	13	141	198	0
Glass	**0**	**0**	–	157	1	63	215	0
Haberman	**0**	**0**	**0**	745	**0**	**0**	473	0
Hayesroth	**0**	**0**	–	124	**0**	24	106	0
Heart	**0**	**0**	**0**	27	**0**	**0**	219	0
Ionosphere	**0**	**0**	**0**	1,075	**0**	–	463	0
Iris	**0**	**0**	**0**	**0**	**0**	**0**	1	0
Led7Digit	**0**	**0**	–	1,445	98	449	327	0
Monk2	**0**	**0**	**0**	82	**0**	–	895	0
Moons	**0**	**0**	**0**	16	**0**	**0**	225	0
Movement Libras	**0**	**0**	–	273	15	98	147	0
Newthyroid	**0**	**0**	**0**	29	**0**	50	193	0
Saheart	**0**	**0**	**0**	1,914	**0**	–	928	0
Sonar	**0**	**0**	**0**	416	**0**	**0**	231	0
Soybean	**0**	**0**	**0**	2	**0**	1	0	0
Spectfheart	**0**	**0**	**0**	463	**0**	**0**	390	0
Spiral	**0**	**0**	–	**0**	**0**	**0**	432	0
Tae	**0**	**0**	–	106	**0**	63	120	0
Vehicle	**0**	**0**	**0**	5,635	373	–	3,088	0
Wine	**0**	**0**	**0**	4	**0**	**0**	23	0
Zoo	**0**	**0**	**0**	29	**0**	1	4	0
Mean	**0**	**0**	**0***	669	20	48*	425	0

*Nan values (–) are ignored when computing the sum.

Table W20: Average number of cannot-link constraint violations of the PCCC and the PCCC-R algorithms and the four state-of-the-art algorithms (COPKM, CSC, DILS, LCC) for the constraint sets of size 20% CS. The lowest values are stated in bold. The column KMEANS reports the average number of cannot-link constraint violations obtained with the k-means algorithm. The hyphen indicates that the respective algorithm returned no solution within the time limit of 1,800 seconds.