	ECOLI3	PIMA	VEHICLE0	VEHICLE1	VEHICLE2	VEHICLE3	VOWEL0	YEAST1	OPTICAL DIGITS
SVM	0.6201	0.6441	0.9372	0.5864	0.9334	0.5517	0.8452	0.3606	0.8500
SMOTE-SVM	0.6274	0.6736	0.9370	0.6803	0.9117	0.6423	0.8023	0.5817	0.7396
CW-SVM	0.6317	0.6665	0.9431	0.6770	0.9275	0.6455	0.7613	0.5892	0.7711
ECW-SVM	0.7045	0.6995	0.9565	0.6941	0.9392	0.6706	0.8583	0.6034	0.8565
CSW-SVM	0.6370	0.6589	0.9443	0.6824	0.9248	0.6284	0.7588	0.5637	0.7564
CHWL-SVM	**0.7563**	**0.7133**	**0.9603**	**0.7065**	**0.9452**	**0.6838**	**0.8762**	**0.6104**	**0.8617**

Table 1: Experimental F1-scores on low IMR datasets

	GLASS5	GLASS016	OIL	YEAST5	YEAST6	WINE4	CAR	CRIME	ABALONE17
SVM	0.6633	0.0000	0.5768	0.3815	0.0000	0.0000	0.8403	0.5101	0.0154
SMOTE-SVM	0.8038	0.3677	0.5140	0.5912	0.3604	0.2067	0.8701	0.4943	0.3080
CW-SVM	0.7010	0.3640	0.3876	0.5795	0.2967	0.1387	0.8710	0.4213	0.2881
ECW-SVM	0.8300	0.4952	0.5295	0.6072	0.4975	0.2733	0.8852	0.5099	0.4052
CSW-SVM	0.6752	0.3586	0.4099	0.5795	0.2977	0.1252	0.8780	0.4321	0.2793
CHWL-SVM	**0.9067**	**0.5356**	**0.5825**	**0.6121**	**0.4975**	**0.3002**	**0.9056**	**0.5552**	**0.4785**

Table 2: Experimental F1-scores on high IMR datasets

	ECOLI3	PIMA	VEHICLE0	VEHICLE1	VEHICLE2	VEHICLE3	VOWEL0	YEAST1	OPTICAL DIGITS
SVM	0.5954	0.5972	0.9357	0.5519	0.9350	0.5204	0.8340	0.2812	0.8220
SMOTE-SVM	0.7568	0.7189	0.9535	0.7967	0.9341	0.7392	0.8721	0.7020	0.8266
CW-SVM	0.7483	0.6842	0.9590	0.7925	0.9500	0.7433	0.8710	0.6613	**0.8671**
ECW-SVM	0.7876	**0.7587**	0.9733	0.8262	0.9522	**0.7735**	0.9058	**0.6816**	0.8549
CSW-SVM	0.7505	0.6541	0.9609	0.7901	0.9449	0.7106	0.8717	0.5518	0.8581
CHWL-SVM	**0.8088**	0.7571	**0.9778**	**0.8271**	**0.9614**	0.7709	**0.9143**	0.6733	0.8381

Table 3: Experimental F2-scores on low IMR datasets

	GLASS5	GLASS016	OIL	YEAST5	YEAST6	WINE4	CAR	CRIME	ABALONE17
SVM	0.6465	0.0000	0.5654	0.3339	0.0000	0.0000	0.8605	0.4736	0.0102
SMOTE-SVM	0.9057	0.5288	0.5742	0.7687	0.5178	0.3325	0.9427	0.5947	0.4824
CW-SVM	0.8437	0.5252	0.5022	0.7599	0.4834	0.2684	0.9429	0.5629	0.4816
ECW-SVM	0.9169	0.6747	0.6055	0.7877	0.6113	0.3601	0.9497	**0.5914**	0.5427
CSW-SVM	0.8248	0.5472	0.5187	0.7599	0.4844	0.2456	0.9376	0.5513	0.4688
CHWL-SVM	**0.9561**	**0.6774**	**0.6450**	**0.7908**	**0.6113**	**0.3622**	**0.9592**	0.5859	**0.5778**

Table 4: Experimental F2-scores on high IMR datasets

	ECOLI3	PIMA	VEHICLE0	VEHICLE1	VEHICLE2	VEHICLE3	VOWEL0	YEAST1	OPTICAL DIGITS
SVM	0.5857	0.5704	0.9350	0.5318	0.9364	0.5023	0.8278	0.2453	0.8045
SMOTE-SVM	0.9000	0.7537	0.9650	0.9000	0.9500	0.8233	0.9278	0.8151	0.8973
CW-SVM	0.8714	0.6981	0.9700	0.8955	0.9659	0.8279	0.9667	0.7209	0.9459
ECW-SVM	0.8714	0.8111	0.9850	0.9477	0.9614	0.8651	0.9444	0.7547	0.8550
CSW-SVM	0.8714	0.6519	0.9725	0.8841	0.9591	0.7791	0.9722	0.5465	0.9432
CHWL-SVM	0.8571	0.7944	0.9900	0.9341	0.9727	0.8442	0.9444	0.7267	0.8234

Table 5: Experimental recalls on low IMR datasets

	GLASS5	GLASS016	OIL	YEAST5	YEAST6	WINE4	CAR	CRIME	ABALONE17
SVM	0.6500	0.0000	0.5625	0.3111	0.0000	0.0000	0.8769	0.4533	0.0083
SMOTE-SVM	1.0000	0.7667	0.6250	0.9667	0.7429	0.5727	1.0000	0.6900	0.7833
CW-SVM	1.0000	0.7667	0.6375	0.9667	0.8429	0.7273	1.0000	0.7267	0.8750
ECW-SVM	1.0000	0.9333	0.6750	0.9889	0.7286	0.4818	1.0000	0.6800	0.7583
CSW-SVM	1.0000	0.8667	0.6375	0.9667	0.8429	0.6909	0.9846	0.6767	0.8583
CHWL-SVM	1.0000	0.8667	0.7000	0.9889	0.7286	0.4455	1.0000	0.6133	0.7000

Table 6: Experimental recalls on high IMR datasets