

TABLE I: Correlation between features.

	$Acme$	$t_{acme\uparrow}$	$t_{acme\downarrow}$	$\delta_{acme\uparrow}$	$\delta_{acme\downarrow}$	D	D_{50}	D_{90}	A	$A_{acme\uparrow}$	$A_{acme\downarrow}$	E	P
$Acme$	1.00	-	-	-	-	-	-	-	-	-	-	-	-
$t_{acme\uparrow}$	0.22	1.00	-	-	-	-	-	-	-	-	-	-	-
$t_{acme\downarrow}$	0.21	0.25	1.00	-	-	-	-	-	-	-	-	-	-
$\delta_{acme\uparrow}$	0.08	-0.21	-0.03	1.00	-	-	-	-	-	-	-	-	-
$\delta_{acme\downarrow}$	0.04	-0.02	-0.12	0.00	1.00	-	-	-	-	-	-	-	-
D	0.26	0.71	0.83	-0.12	-0.08	1.00	-	-	-	-	-	-	-
D_{50}	0.05	0.39	0.05	0.01	0.07	0.43	1.00	-	-	-	-	-	-
D_{90}	0.16	0.61	0.31	-0.07	0.00	0.67	0.85	1.00	-	-	-	-	-
A	0.32	0.76	0.65	-0.11	-0.05	0.92	0.56	0.82	1.00	-	-	-	-
$A_{acme\uparrow}$	0.25	0.96	0.25	-0.19	-0.03	0.71	0.46	0.69	0.81	1.00	-	-	-
$A_{acme\downarrow}$	0.26	0.44	0.76	-0.03	-0.03	0.76	0.11	0.44	0.72	0.46	1.00	-	-
E	0.13	0.63	0.47	-0.07	-0.03	0.74	0.61	0.73	0.79	0.69	0.49	1.00	-
P	0.18	0.68	0.66	-0.10	-0.05	0.89	0.54	0.72	0.88	0.72	0.64	0.96	1.00

High correlated features (≥ 0.8) are candidate to be removed. The following ones have been removed: the power P , the area A , $A_{acme\uparrow}$, D_{50} , and $t_{acme\downarrow}$. Eventually 8 features remain for further analysis.

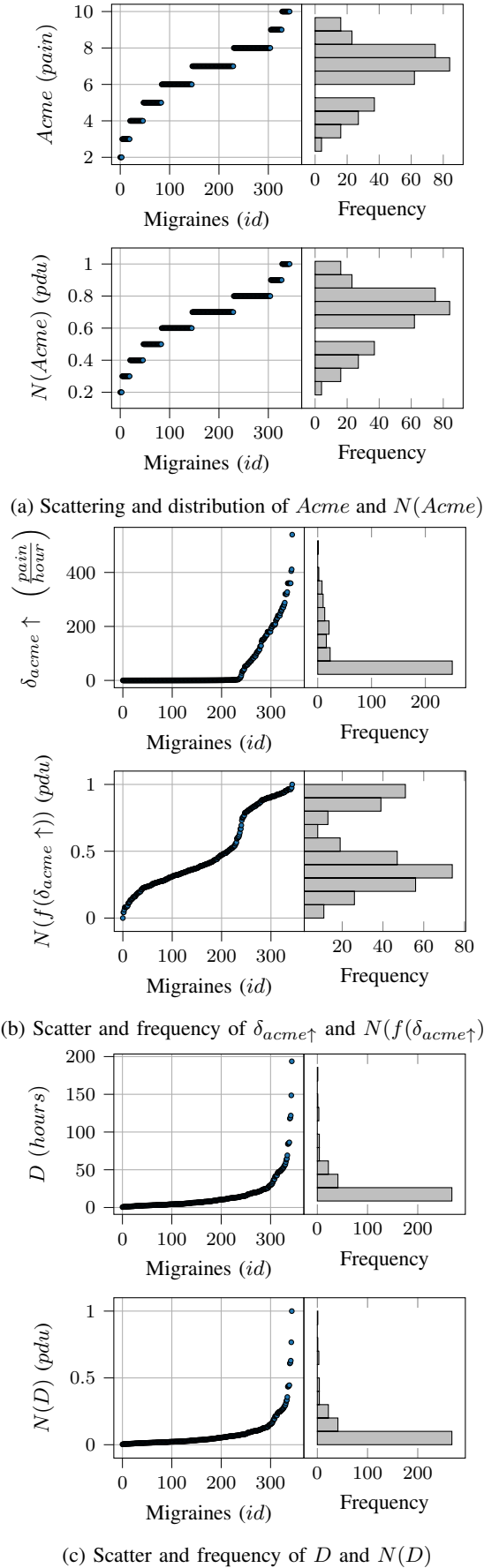


Fig. 1: Scattering and distributions of $Acme$, $\delta_{acme\uparrow}$ and D , and their transformations. *Migraines (id)* identify each migraine.