Appendix

A dataset snippet, relating to a single user (i.e. User1), acquired during training of the mental state classification system. The first 50 items were collected while the user was stimulated to the Focused state by reading sequences of numbers, the next 50 while listening to natural environment sounds to induce the Relaxed state.

User	x_i	Delta					Theta					Alpha					Beta					Gamma					Target
		AF3	T7	PZ	T8	AF4	AF3	T7	PZ	T8	AF4	AF3	T7	PZ	T8	AF4	AF3	T7	PZ	T8	AF4	AF3	T7	PZ	T8	AF4	
	x_1	1.643	0.967	0.255	0.386	0.595	0.111	1.026	0.603	1.474	0.603	0.931	0.231	0.572	1.137	1.306	0.526	1.028	0.441	0.795	1.645	1.479	1.639	1.544	1.647	1.543	Focused
	x_2	0.765	0.504	0.836	0.627	0.524	0.733	0.891	0.437	0.415	0.468	0.444	0.400	1.127	1.398	1.127	1.192	1.224	0.476	1.221	1.183	1.278	0.758	0.953	1.426	0.665	Focused
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
User1	x_{50}	1.174	1.040	0.014	1.264	1.383	1.156	0.064	0.567	1.056	1.094	0.336	0.403	1.009	0.716	0.935	0.354	0.265	1.244	1.150	1.401	0.161	0.273	0.148	0.734	0.289	Focused
	x_{51}	1.343	0.148	0.066	0.835	1.158	0.467	0.268	0.508	0.315	1.359	0.943	0.152	0.586	0.081	0.751	0.647	1.496	1.217	0.728	1.341	0.206	0.585	1.391	1.376	1.070	Relaxed
	x_{52}	0.927	0.514	1.404	0.187	1.095	0.969	1.249	0.597	1.124	1.252	0.483	0.828	1.468	0.824	0.495	0.929	0.541	1.134	0.620	0.738	1.042	1.459	0.491	1.256	1.108	Relaxed
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	x_{100}	1.431	0.047	0.535	0.994	0.422	0.345	1.066	0.936	0.885	0.990	0.071	0.523	0.677	0.361	1.072	1.284	0.422	1.096	0.206	1.255	0.207	0.882	0.549	1.210	1.002	Relaxed