Supplementary Material

Table I Details of factor datasets

	Details of factor			
	No. of training	testing	Percentage of	Percentage of
No. of segments	segs.	segs.	class 0	class 1
5,695	3,986	1,709	60.40	39.60
5,794	4,055	1,739	60.20	39.80
5,749	4,024	1,725	59.68	40.32
5,674	3,971	1,703	60.26	39.74
5,666	3,966	1,700	73.90	26.10
5,703	3,992	1,711	72.72	27.28
5,730	4,011	1,719	72.79	72.21
5,780	4,046	1,734	72.72	27.28
4,230	2,961	1,269	76.05	23.95
4,186	2,930	1,256	75.66	24.34
4,201	2,940	1,261	75.46	24.54
4,257	2,979	1,278	75.88	24.12
5,946	4,162	1,784	50.61	49.39
5,941	4,158	1,783	50.48	49.52
6,013	4,209	1,804	50.27	49.73
5,935	4,154	1,781	50.13	49.87
5 751	4.027	1 727	60.49	39.42
				40.13
				39.26
				40.16
	5,695 5,794 5,749 5,674 5,666 5,703 5,780 4,230 4,186 4,201 4,257 5,946 5,941 6,013	No. of segments segs. 5,695 3,986 5,794 4,055 5,749 4,024 5,674 3,971 5,666 3,966 5,703 3,992 5,730 4,011 5,780 4,046 4,230 2,961 4,186 2,930 4,201 2,940 4,257 2,979 5,946 4,162 5,941 4,158 6,013 4,209 5,935 4,154 5,754 4,003 5,724 4,006	No. of segments segs. segs. 5,695 3,986 1,709 5,794 4,055 1,739 5,749 4,024 1,725 5,674 3,971 1,703 5,666 3,966 1,700 5,703 3,992 1,711 5,730 4,011 1,719 5,780 4,046 1,734 4,230 2,961 1,269 4,186 2,930 1,256 4,201 2,940 1,261 4,257 2,979 1,278 5,946 4,162 1,784 5,941 4,158 1,783 6,013 4,209 1,804 5,935 4,154 1,781 5,754 4,003 1,716 5,724 4,006 1,718	No. of segments No. of training segs. testing segs. Percentage of class 0 5,695 3,986 1,709 60.40 5,794 4,055 1,739 60.20 5,749 4,024 1,725 59.68 5,674 3,971 1,703 60.26 5,666 3,966 1,700 73.90 5,703 3,992 1,711 72.72 5,780 4,046 1,734 72.72 4,230 2,961 1,269 76.05 4,186 2,930 1,256 75.66 4,201 2,940 1,261 75.46 4,257 2,979 1,278 75.88 5,946 4,162 1,784 50.61 5,941 4,158 1,783 50.48 6,013 4,209 1,804 50.27 5,935 4,154 1,781 50.13 5,754 4,027 1,727 60.48 5,719 4,003 1,716 59.87 </td

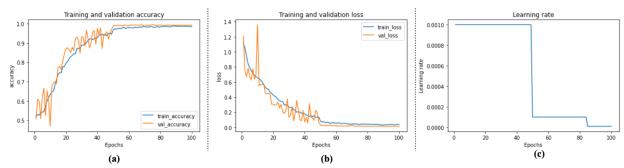


Fig. 1. Learning curves presenting the progress of accuracy (a), loss (b), and learning rate decay (c) during training for 100 epochs of the Age_1 dataset using Approach A.

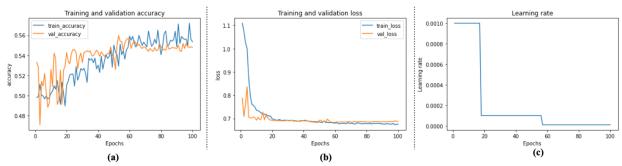


Fig. 2. Learning curves presenting the progress of accuracy (a), loss (b), and learning rate decay (c) during training for 100 epochs of the Smoke 2 dataset using Approach A.