Supplementary material: Disciplinary Variations in Citation Polarity

Data

For the human-annotated data used fro training the models please refer to Hernandez-Alvarez, Soriano, and Martínez-Barco (2017). Table 1 presents some statistics about the used for analyses in the paper.

journal	articles	citations	cit. per art.
fbioe	7 499	675 116	90.0
feart	6 362	620 037	97.5
feduc	2 870	273 341	95.2
fenrg	4 378	241 175	55.1
fenvs	5 057	445 973	88.2
fmars	9 659	1 088 533	112.7
fnagi	5 749	581 681	101.2
fnbeh	3 644	396 537	108.8
fncel	5 014	632 641	126.2
fncom	1 662	154 828	93.2
fneur	358	32 401	90.5
fnhum	8 026	828 765	103.3
fpsyg	35 927	3 687 619	102.6
frbot	1 568	116 403	74.2
fsoc	956	82 636	86.4

Table 1: Statistics about the data used.

Differences between disciplines/journals

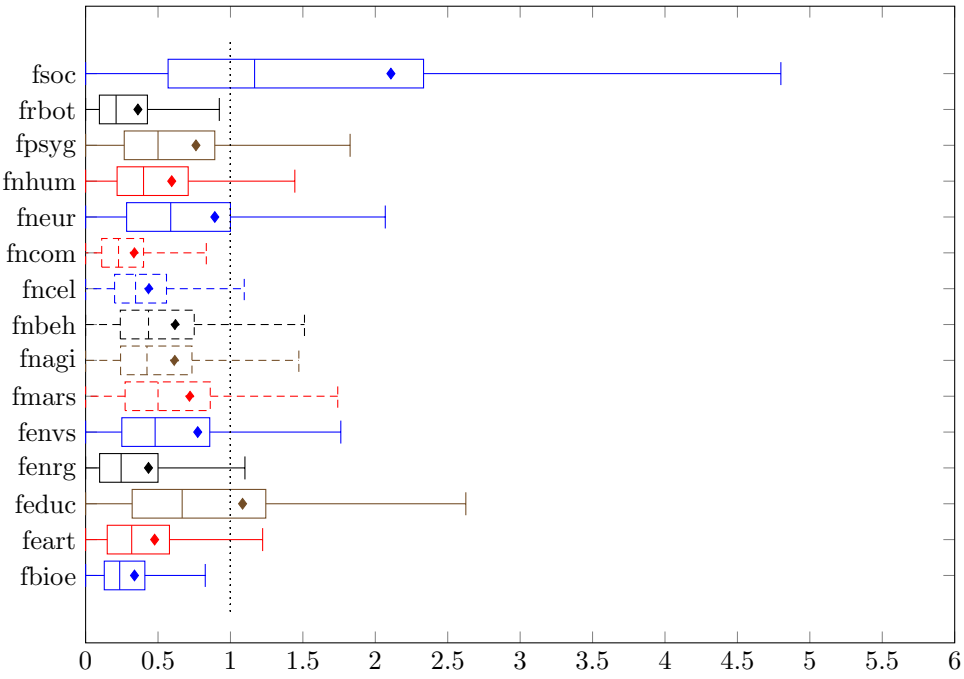
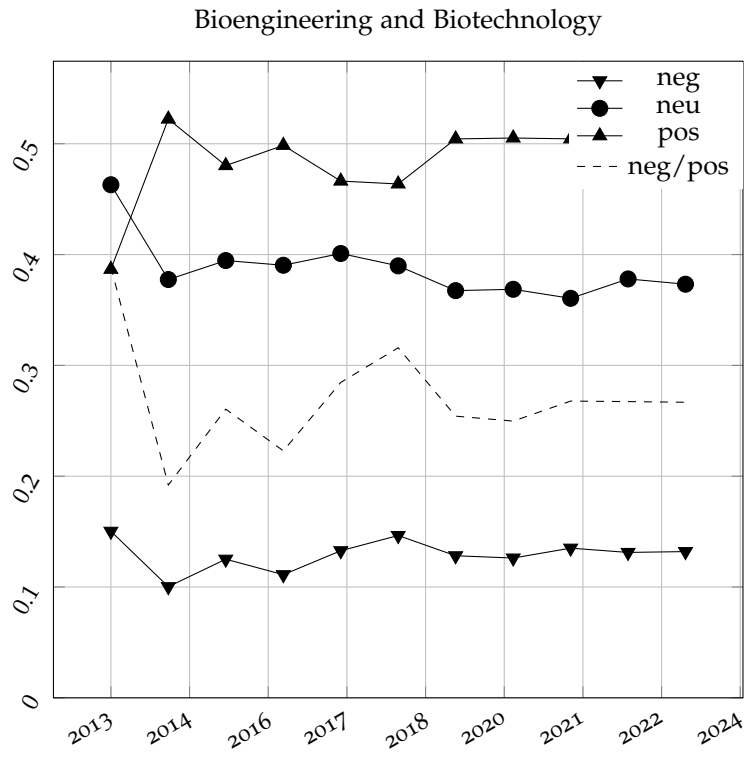
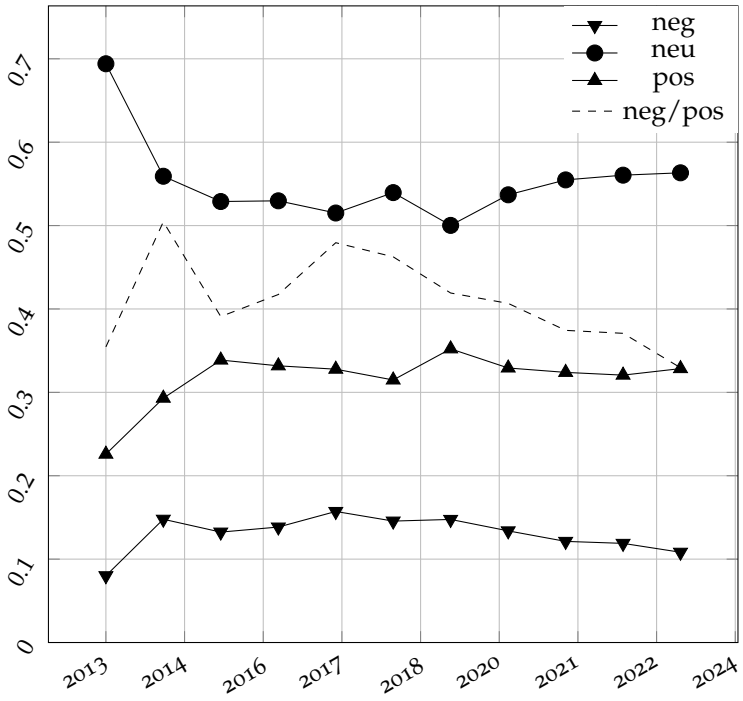


Figure 1: Boxplots of negative / positive rate per article in all journals. The diamond-shaped points indicate the mean. Outliers are not plotted.

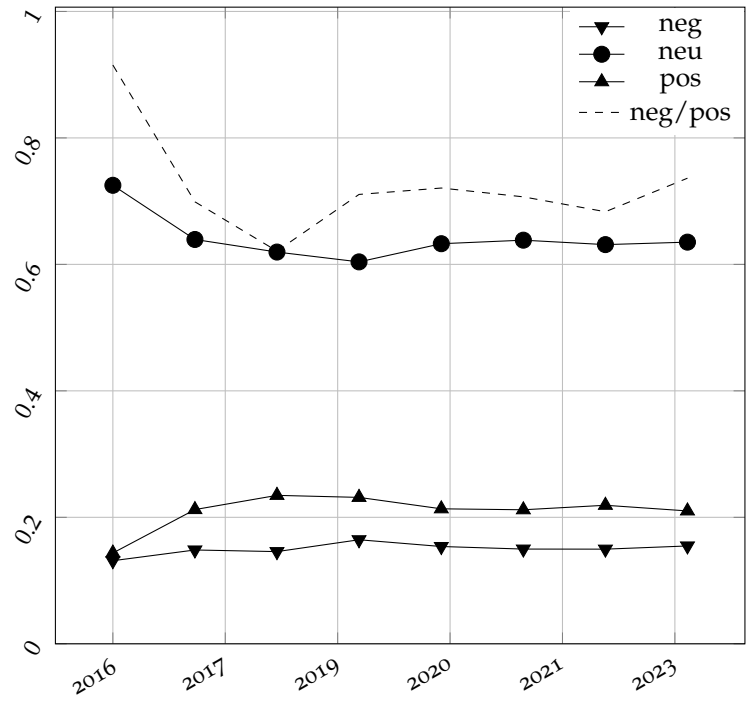
Polarity through time per journal



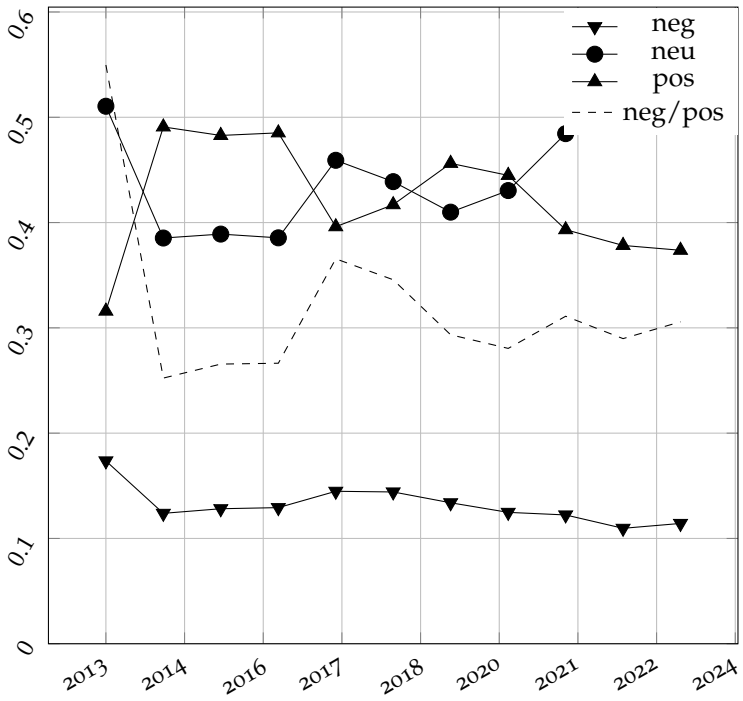
Frontiers in Earth Science



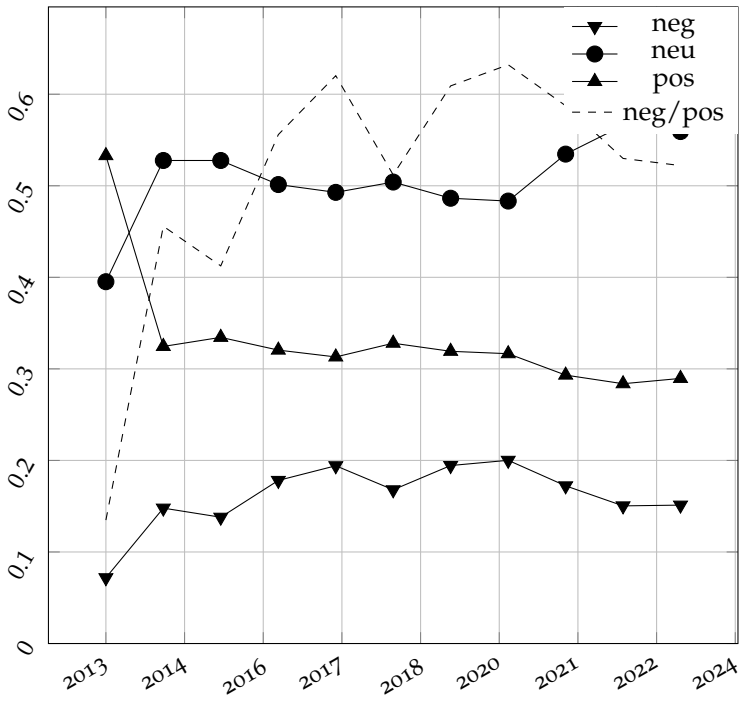
Frontiers in Education



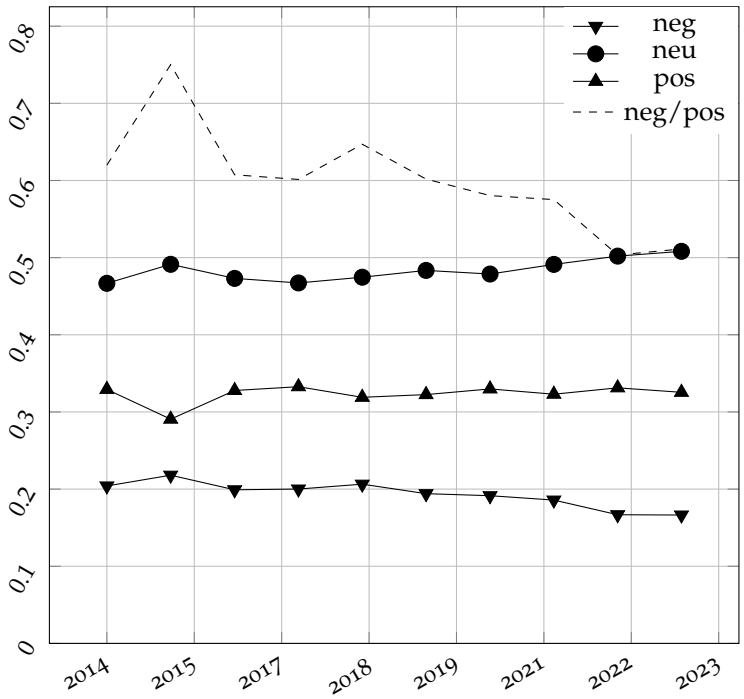
Frontiers in Energy Research



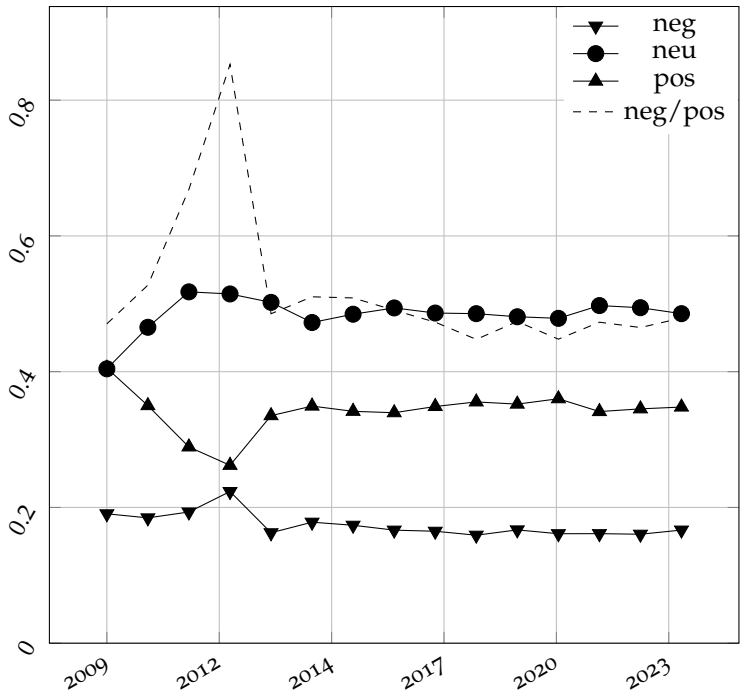
Frontiers in Environmental



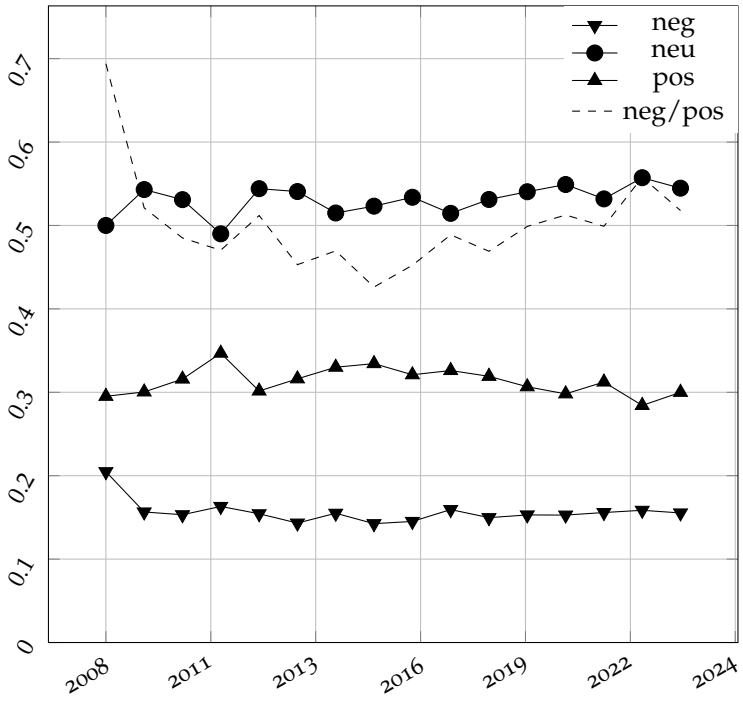
Frontiers in Marine Science



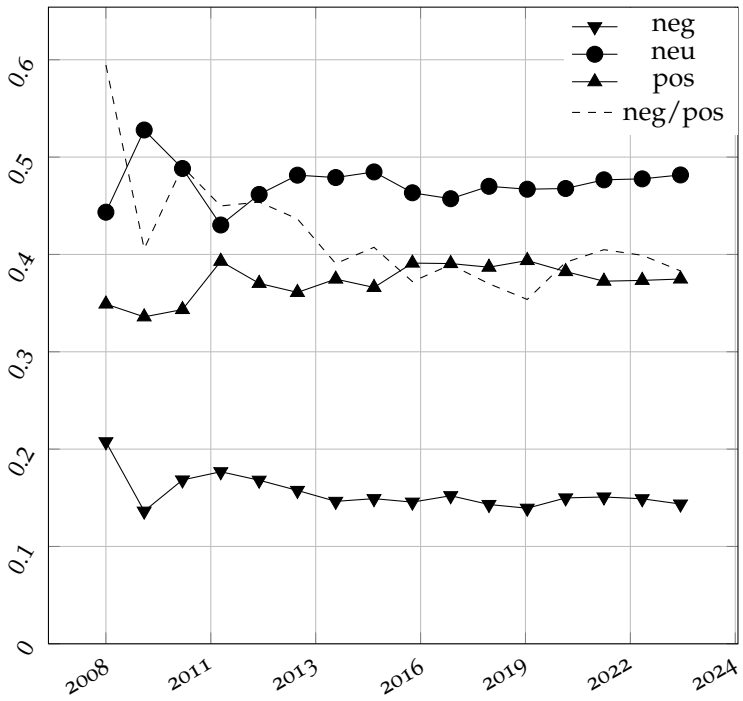
Frontiers in Aging Neuroscience



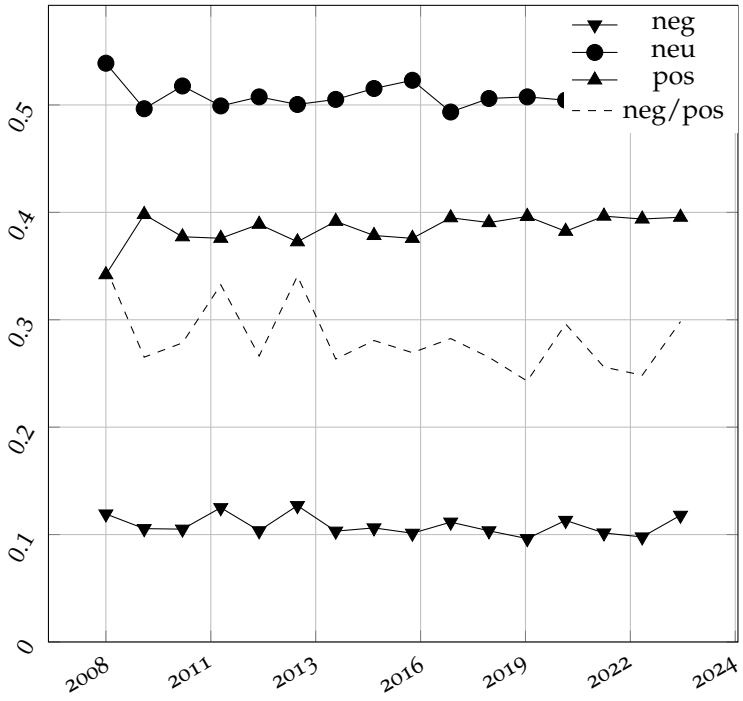
Frontiers in Behavioral Neuroscience



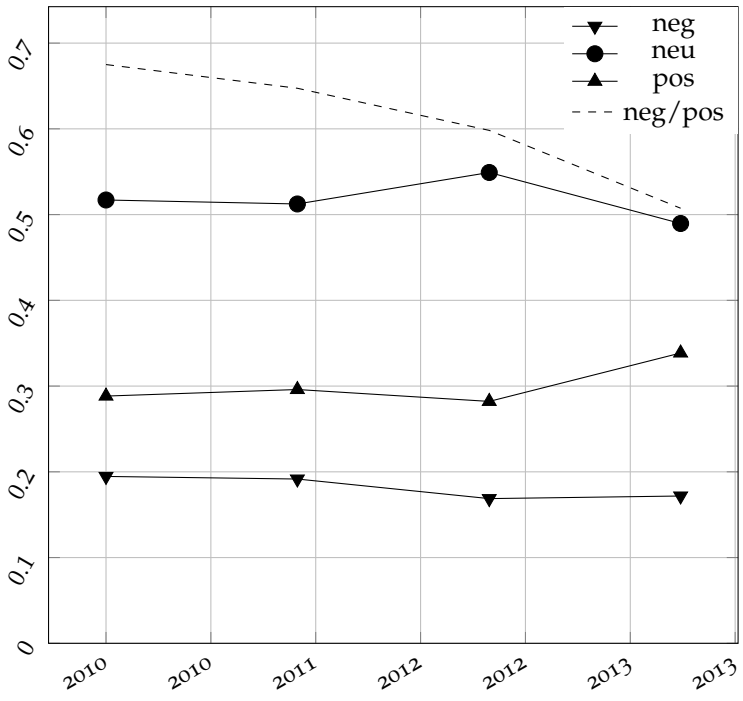
Frontiers in Cellular Neuroscience



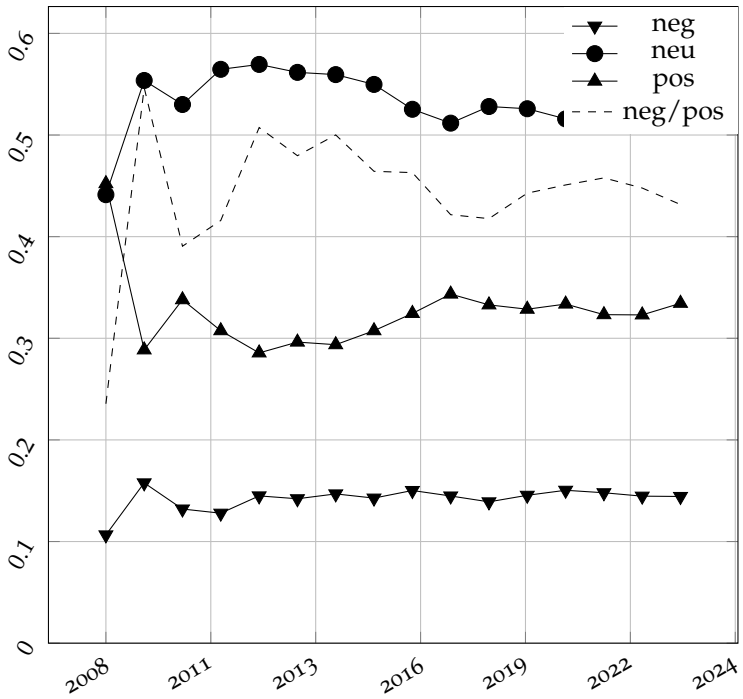
Frontiers in Computational Neuroscience



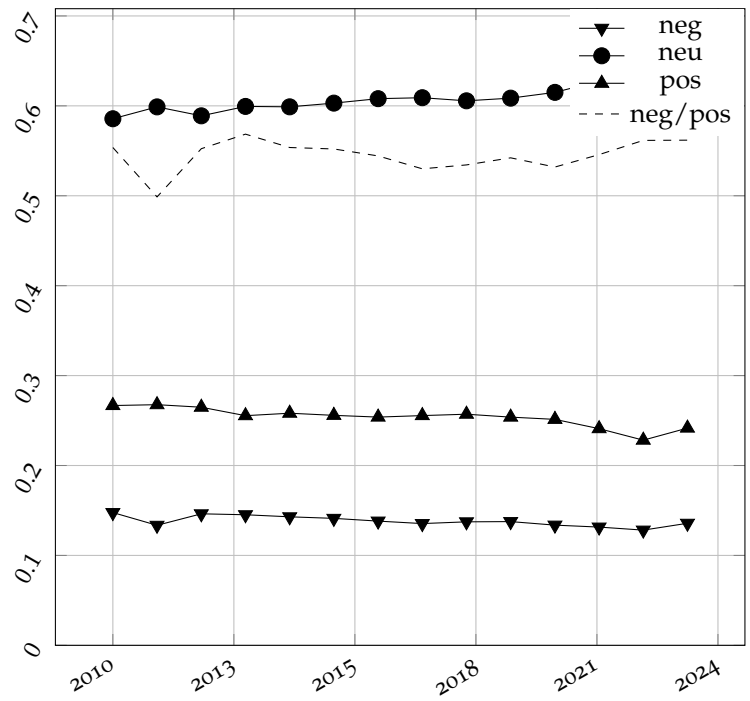
Frontiers in Neurology



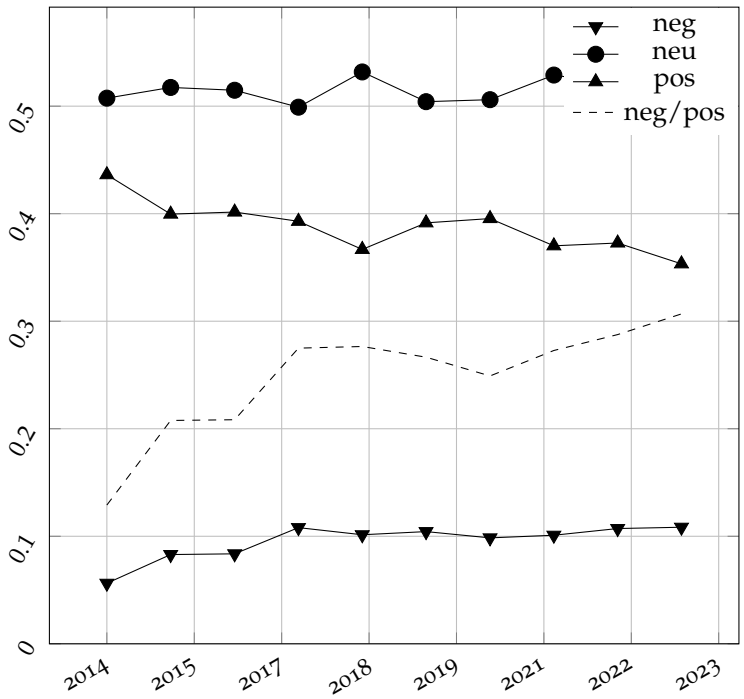
Frontiers in Human Neuroscience



Frontiers in Psychology



Frontiers in Robotics and AI



Frontiers in Sociology