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Do Enterprises Have Emotions?



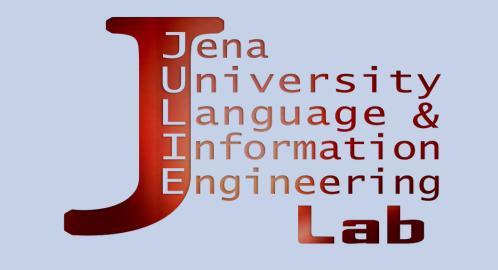
Jena University Language & Information Engineering (JULIE) Lab http://www.julielab.de



School of Economics and Business Administration

http://orga.uni-jena.de

Friedrich-Schiller-Universität Jena, Germany



Organizational Emotions

- Organizations are seen as social actors in management and organization studies (King et al., 2010)
- Anthropomorphic modelling with human-like traits
- Do emotions fit into this theoretical framework?

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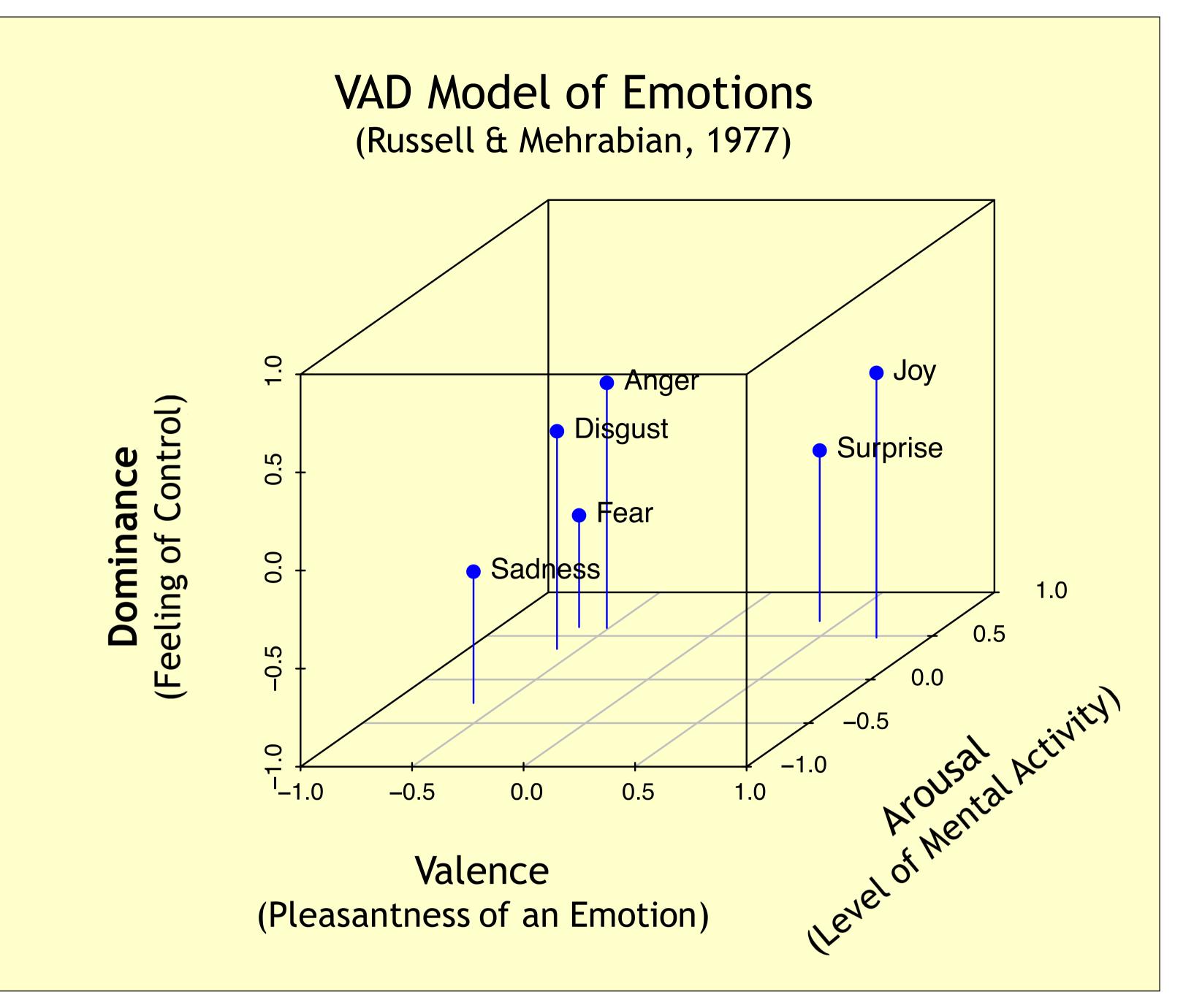
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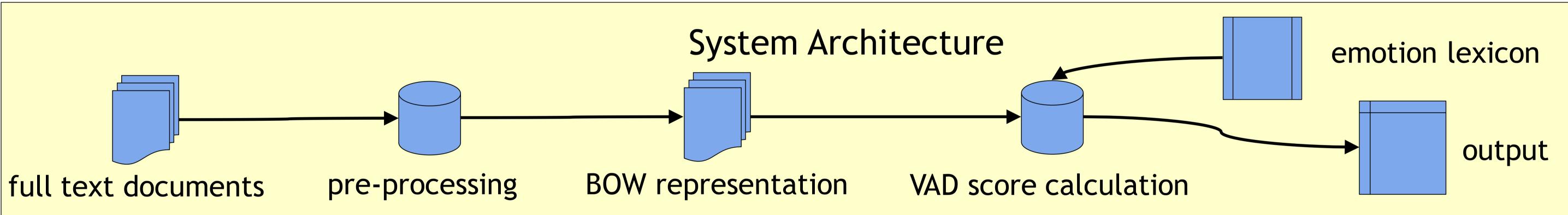
> Analyzing language of (rather than about) organizations

Warriner's Word-Emotion Lexicon (Warriner et al., 2013)

Lemma	Valence	Arousal	Dominance
sunshine	3.14	0.32	0.43
leukemia	-3.53	0.75	-2.17
terrorism	-3.40	2.42	-2.31
calm	1.89	-3.33	2.44
successful	2.76	0.08	2.71
uncontrollable	-1.16	0.81	-2.82

14k crowdsourced VAD-lemma pairs

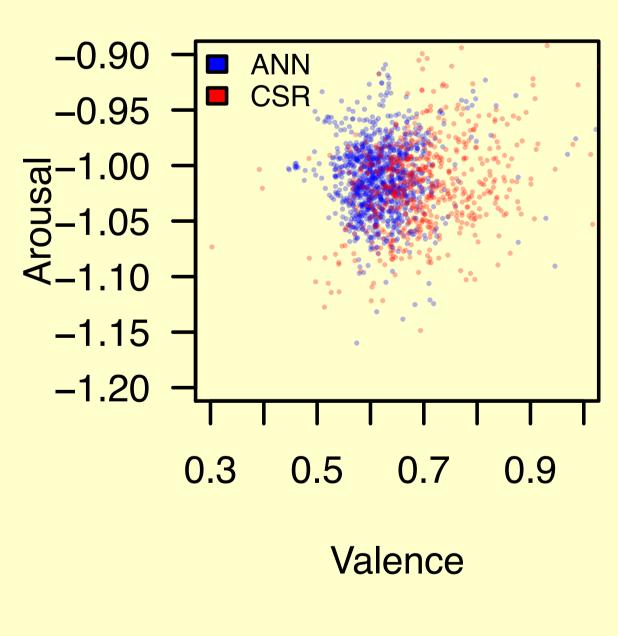


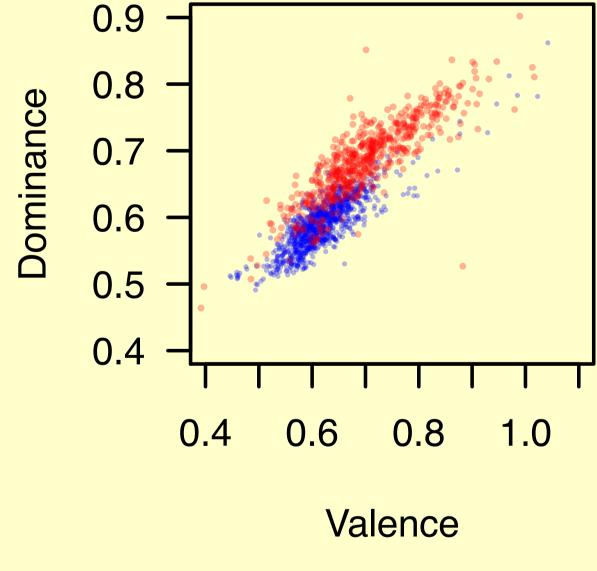


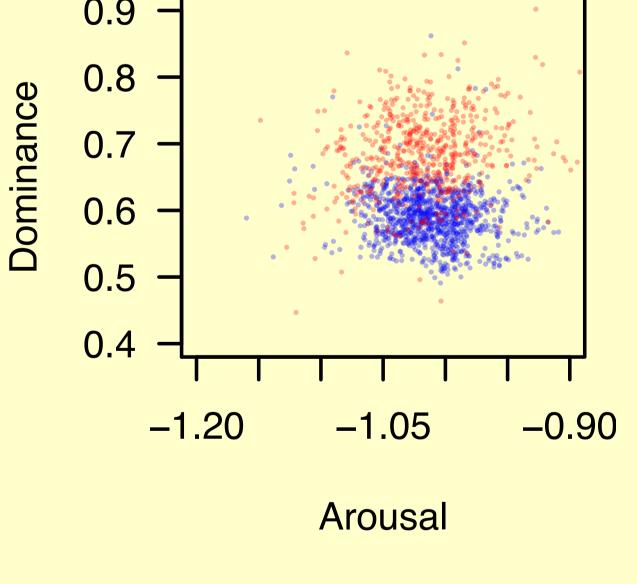
Experiments

Jena Organization Corpus

- 90 top-performing corporations from Dow Jones (US), FTSE100 (UK) and DAX (Germany) index (covering 7% of worldwide GDP in 2014)
- 1087 annual business reports (ANN)
- 589 corporate social responsibility reports (CSR)
- 130M tokens

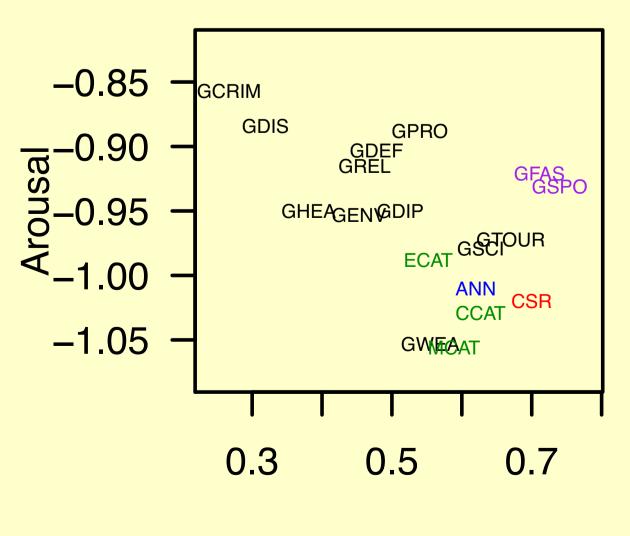


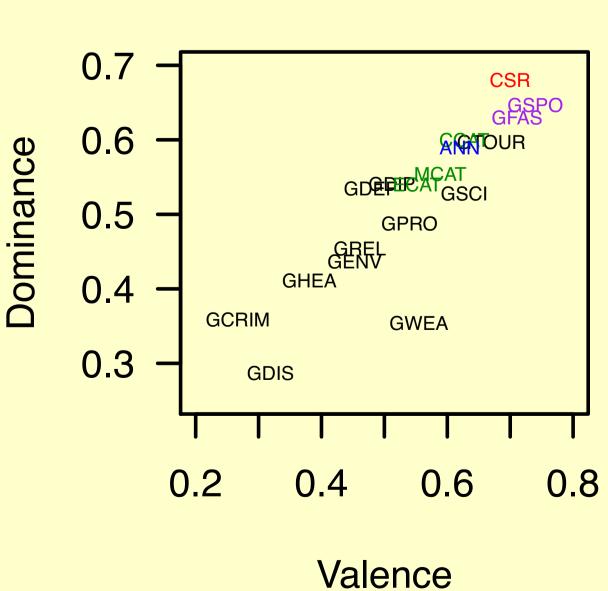


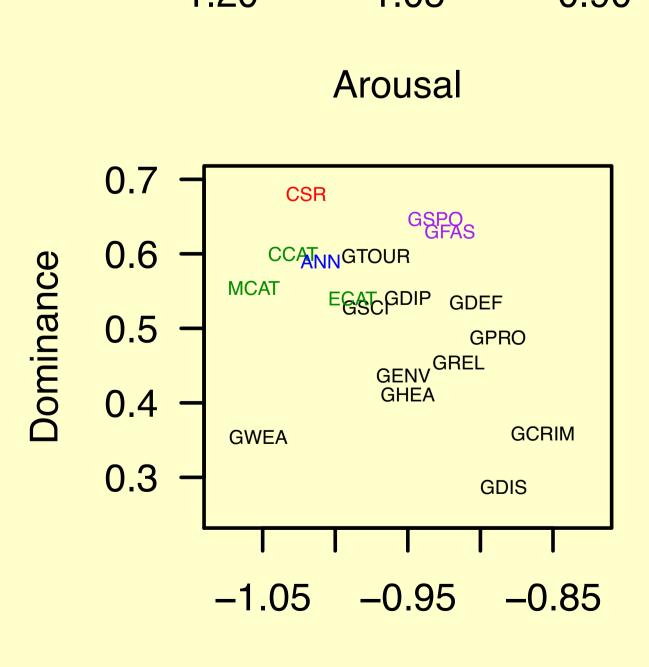




red corporate social responsibility reports
green RCV1 business and economy news
purple RCV1 fashion and sports news
black miscellaneous RCV1 news categories







Arousal

References

Valence

Brayden G. King, Teppo Felin, and David A. Whetten. 2010. Finding the organization in organizational theory. A meta-theory of the organization as a social actor. *Organization Science*, 21(1):290-305. David D. Lewis, Yiming Yang, Tony G. Rose, and Fan Li. 2004. RCV1: A new benchmark collection for text categorization research. *Journal of Machine Learning Research*, 5:361-397. James A Russell and Albert Mehrabian. 1977. Evidence for a three-factor theory of emotions. *Journal of Research in Personality*, 11(3):273-294. Amy Beth Warriner, Victor Kuperman, and Marc Brysbaert. 2013. Norms of valence, arousal, and dominance for 13,915 English lemmas. *Behavior Research Methods*, 45(4):1191-1207.