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Computational sarcasm detection through the lens of psycholinguistics

This talk addresses automatic sarcasm detection from the combined angles of psycholinguistics and computational linguistics. I provide empirical evidence about the factors that relate to the production and interpretation of sarcasm. I then use these key factors as a means of investigating the nature of the automatic sarcasm detection process. I report several patterns identified through three computational experiments, whose united goal is to reveal what kinds of information are encoded in sarcasm detection models, and whether they are similar to the information shown in human behavior. I discuss how the proposed framework should bridge human communication and natural language processing, and contribute to a more multifaceted investigation of natural language in future work.