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	authors	<ul style="list-style-type: none">Ayesha EnayetGita Sukthankar			DUPLICATES	7
	title	Improving the Generalizability of Collaborative Dialogue Analysis with Multi-Feature Embeddings	authors	<ul style="list-style-type: none">Ayesha EnayetGita Sukthankar		
	publication_date	2023-02-09 15:58:32+00:00	title	Improving the Generalizability of Collaborative Dialogue Analysis with Multi-Feature Embeddings		
	source	SupportedSources.ARXIV	publication_date	2023-02-09 00:00:00		
	journal	None	source	SupportedSources.INTERNET_ARCHIVE		
	volume		journal			
	doi		volume			
	urls	<ul style="list-style-type: none">http://arxiv.org/pdf/2302.04716v1http://arxiv.org/abs/2302.04716v1http://arxiv.org/pdf/2302.04716v1	doi			
	id	id-2141254226968690928	urls	<ul style="list-style-type: none">https://web.archive.org/web/20230219003910/https://arxiv.org/pdf/2302.04716v1.pdf		
	abstract	Conflict prediction in communication is integral to the design of virtual agents that support successful teamwork by providing timely assistance. The aim of our research is to analyze discourse to predict collaboration success. Unfortunately, resource scarcity is a problem that teamwork researchers commonly face since it is hard to gather a large number of training examples. To alleviate this problem, this paper introduces a multi-feature embedding (MFeEmb) that improves the generalizability of conflict prediction models trained on dialogue sequences. MFeEmb leverages textual, structural, and semantic information from the dialogues by incorporating lexical, dialogue acts, and sentiment features. The use of dialogue acts and sentiment features reduces performance loss from natural distribution shifts caused mainly by changes in vocabulary. This paper demonstrates the performance of MFeEmb on domain adaptation problems in which the model is trained on discourse from one task domain and applied to predict team performance in a different domain. The generalizability of MFeEmb is quantified using the similarity measure proposed by Bontonou et al. (2021). Our results show that MFeEmb serves as an excellent domain-agnostic representation for meta-pretraining a few-shot model on collaborative multiparty dialogues.	id	id-9137402529958077165		
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	versions		versions			