Supplementary Material for Unsupervised Relationship Modeling: Full Descriptor List with External Labels and Model Precision

RMN			HTMM		
Label	MP	Nearest Neighbors	Label	MP	Most Probable Words
outdoors	1.0	trail trails hillside grassy slopes	crime	1.0	blood knife pain legs steal
violence	1.0	grenades grenade guns hammers bullets	food	1.0	kitchen mouth glass food bread
education	1.0	teaching graduate year teacher attended	violence	1.0	sword shot blood shouted swung
love	1.0	love delightful happiness enjoyed enjoyable	boats	1.0	ship boat captain deck crew
buildings	1.0	balconies courtyard overlooking terrace buildings	outdoors	1.0	stone rock path darkness desert
sadness	1.0	regretful rueful pity pained despondent	routine	1.0	school year week business dollars
action	1.0	flipped crashed caved pushed scooted	indoors	0.9	kitchen bathroom bedroom clothes shirt
money	1.0	cash sales rental services dollars	furniture	0.9	glass desk paper walls chair
murder	1.0	autopsy arrested homicide murdered suspected	sex	0.9	mouth lips skin kiss neck
food	1.0	sauce juice butter cheese vinegar	food	0.9	coffee food glass kitchen drink
boats	1.0	sail sailing boat sails cruise	clothing	0.8	shirt blue smile dress wore
fantasy	1.0	cosmic worlds phenomena realm universe	outdoors	0.8	horse horses trees river rode
politics	1.0	political ethics leadership governing fundamental	royalty	0.7	king death shall speak lady
military	1.0	saluted commander lieutenant summoned commanded	love	0.7	love tears smiled dear please
religion	1.0	jesus mary christ eden william	buildings	0.7	building doors windows stepped onto
color	1.0	glow shimmer luminous tint violet	boats	0.6	surface below boat deck metal
shouting	1.0	screaming yelling shouting loud screeching	informal	0.6	hell okay sorry mouth damn
writing	0.9	text pasted printed print handwritten	police	0.6	desk number police computer file
affection	0.9	patted chuckled smiled sighed nuzzled	parental	0.5	love baby music sleep school
clothing	0.9	wardrobe linen bathrobe clothes pajamas	business	0.4	shall suppose business police doctor
sex	0.9	crotch thighs caressing buttocks licking	death	0.4	love death truth power kill
suffering	0.8	suffering fear nightmares battling suffer	violence	0.4	sword blood stone pain wind
formal	0.8	request notified announcement please confirm	fantasy	0.4	smiled kill love vampire dragon magician
royalty	0.7	throne crowned risen represents bestowed	politics	0.3	american country year week government
organizational	0.7	systems depend beneficial components specific	love	0.3	however dear wife happy husband
action	0.6	forearm lever angled blade one-handed	journey	0.2	truck seat hell yeah drive
outdoors	0.5	glistened mists rivulets underbrush acrid	fantasy	0.2	dwarf sergeant added watch magic
informal	0.4	kinda damn heck guess shitty	military	0.1	ship captain lucky hour general
moodiness	0.3	glumly snickered quizzically guiltily morosely	fantasy	0.0	agreed magician dragon castle talent
worship	0.1	toil pray devote yourselves gather	scifi	0.0	suppose earth robots computer certain