Error Impact Score and Word Error Rate Measures for the Study Scenarios

Results for reference:

EYE DOCTOR

Reading impact_scores\eye_eye2_impact.txt ...
Total phrases: 27
Impacted phrases: 16
Highly impacted phrases: 11
% Impacted phrases: 59.26
% Highly impacted phrases: 40.74
Mean impact score for phrases with substitution errors: 0.8207200184402788

Reading impact_scores\eye_15eye_impact.txt ...
Total phrases: 27
Impacted phrases: 18
Highly impacted phrases: 18
% Impacted phrases: 66.67
% Highly impacted phrases: 66.67
Mean impact score for phrases with substitution errors: 1.068536934832178

GLOBAL TRAVEL

Reading impact_scores\global_transcript1_impact.txt ...
Total phrases: 35
Impacted phrases: 17
Highly impacted phrases: 13
% Impacted phrases: 48.57
% Highly impacted phrases: 37.14
Mean impact score for phrases with substitution errors: 0.7209664029945699

Reading impact_scores\global_diptanuGlobaltravel_impact.txt ...
Total phrases: 35
Impacted phrases: 28
Highly impacted phrases: 22
% Impacted phrases: 80.0
% Highly impacted phrases: 62.86
Mean impact score for phrases with substitution errors: 0.8707951062068218

TAKEOUT

Reading impact_scores\ref10_takeout10_impact.txt ...
Total phrases: 35
Impacted phrases: 19
Highly impacted phrases: 17
% Impacted phrases: 54.29
% Highly impacted phrases: 48.57
Mean impact score for phrases with substitution errors: 0.8048606141947726

Reading impact_scores\ref10_diptanuTakeout_impact.txt ...
Total phrases: 35
Impacted phrases: 23
Highly impacted phrases: 18
% Impacted phrases: 65.71
% Highly impacted phrases: 51.43
Mean impact score for phrases with substitution errors: 0.9523709563197332

CAR REPAIR

Reading impact_scores\ref3_new7_impact.txt ...
Total phrases: 28
Impacted phrases: 15
Highly impacted phrases: 13
% Impacted phrases: 53.57
% Highly impacted phrases: 46.43
Mean impact score for phrases with substitution errors: 0.6492556875207783

Reading impact_scores\shorterCar_diptanuCar_impact.txt ...
Total phrases: 30
Impacted phrases: 23
Highly impacted phrases: 21
% Impacted phrases: 76.67
% Highly impacted phrases: 70.0
Mean impact score for phrases with substitution errors: 0.7819264929627656

Scenario	Measures			
	Impacted Phrases	Phrases with Impact >.50	Mean Impact Score for Phrases with Substitution Errors	WER
Global Travel				
More accurate (Donna reduced script)	48.57	37.14	0.71905	6.1%
Less accurate (Diptanu recording 2)	80.0	62.86	0.87079	14.1%
Eye Doctor Visit				
More accurate (Donna recording 2)	59.26	40.74	0.82072	5.5%
Less accurate (Diptanu 15% noise)	66.67	66.67	1.06853	11.7%

Error Impact Score and Word Error Rate Measures for the Study Scenarios (Continued)

Scenario	Measures			
	Impacted Phrases	Phrases with Impact >.50	Mean Impact Score for Phrases with Substitution Errors	WER
Car Repair				
More accurate (Donna Car repair #7)	53.57	46.43	0.64930	4.0%
Less accurate (Car Repair Diptanu	76.67	70.0	0.78192	9.4%
Takeout				
More accurate (Donna #10)	54.29	48.57	0.80486	5.5%
Less accurate (Diptanu)	65.71	51.43	0.95237	11.7%