

List of Tables

<i>Table</i>	<i>Title</i>	<i>page</i>
2.1	Characteristics of the articles accepted after full-text screening	13
2.2	Comparison of fallers and non-fallers using 5STS time	14
2.3	Comparison of fallers and non-fallers for different phases	14
2.4	Comparison of fallers and non-fallers using other parameters	15
2.5	Correlation between STS parameters and physical function	16
2.6	Results of classification models for fallers and non-fallers	16
2.7	Comparison of frail and pre-frail participants for temporal STS parameters	16
2.8	Comparison of pre-frail and robust participants for temporal STS parameters	16
2.9	Comparison of frail and pre-frail participants for the STS parameters	17
2.10	Comparison of pre-frail and robust participants for the STS parameters	18
2.11	Results of classification models for frailty categories	18
2.12	Appendix 1	21
3.1	Subject characteristics	27
3.2	STS performance	28
3.3	Sit to Stand performance	30
4.1	Distribution of dataset	43
4.4	PERFORMANCE (F-MEASURE, G- MEAN, AUC AND ACCURACY) FOR DIFFERENT CLASSIFIERS FOR TUG. EVALUATION METRICS OBTAINED BY THREE APPROACHES 1. WITHOUT PREPROCESSING, 2. WITH SMOTE, 3. WITH SMOTE COMBINED WITH TOMER LINK	45
5.1	Rate of force developement for estimated 80 Hz sampling frequency	50
5.2	Rate of force development for CPU time stamp estimated sampling frequency	50
5.3	Comparison of STS durations calculated for chair and force plate data.	52
5.4	Comparison of STS durations calculated for chair and force plate data using only the front sensors	53
5.5	Comparison of STS durations calculated for the five methods used	53
6.1	Performance of the testing systems for 5 STS time for young	64
6.2	Performance of the testing systems for 5 STS time for fallers	64
6.3	Performance of the testing systems for STS Velocity for young	64
6.4	Performance of the testing systems for STS Velocity for fallers	65
7.1	Comparison Of Segmentation Accuracy between Techniques; Values are bootstrapped means and 95% confidence intervals	75
7.2	Comparison of segmentation accuracy for the three systems. Data are bootstrapped means and 95% confidence intervals.	81

