TABLE I: Subject 1 personalized model results

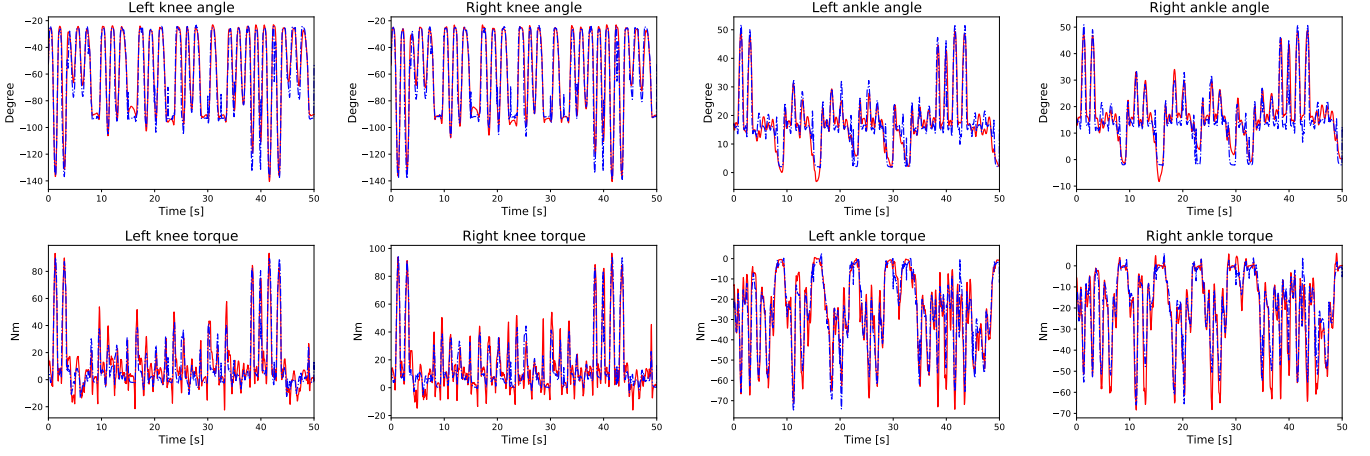| Evaluation metrics	Angle					Torque				
	Left knee	Right knee	Left ankle	Right ankle	**mean ± Std.**	Left knee	Right knee	Left ankle	Right ankle	**mean ± Std.**
R^2	0.987	0.987	0.965	0.957	**0.974±0.015**	0.869	0.897	0.962	0.937	**0.916±0.042**
RMSE	7.87	7.73	3.64	3.81	**5.76±2.35**	8.16	7.82	6.09	6.21	**7.07±1.07**

Fig. 1: Subject 1 personalized model test set estimations against measurements, "———" for measurements and "-·-·-·-" for predictions.

TABLE II: Subject 2 personalized model results

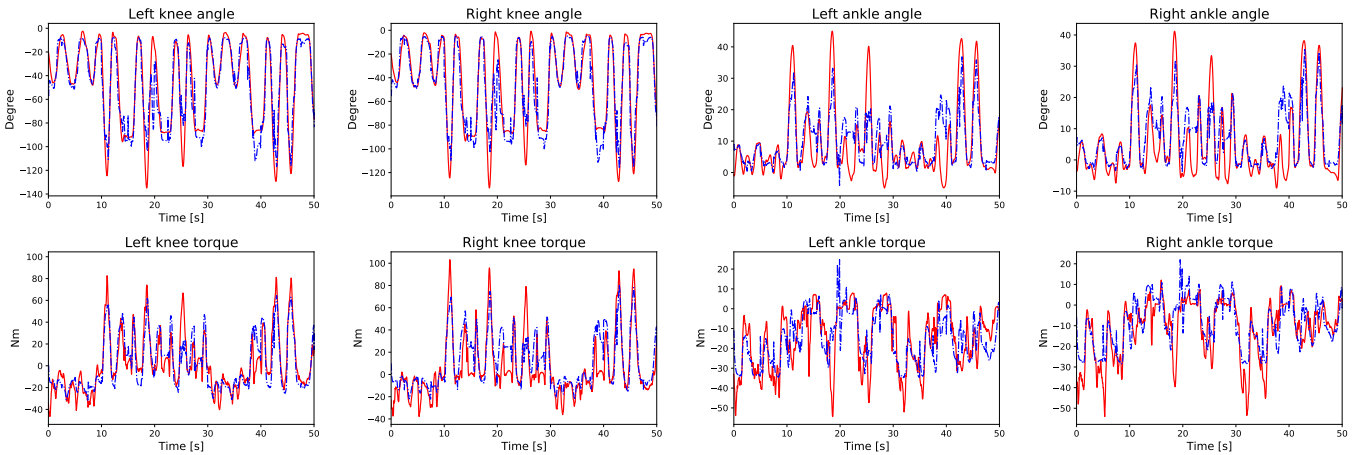| Evaluation metrics	Angle					Torque				
	Left knee	Right knee	Left ankle	Right ankle	**mean ± Std.**	Left knee	Right knee	Left ankle	Right ankle	**mean ± Std.**
R^2	0.957	0.950	0.659	0.626	**0.798±0.180**	0.710	0.654	0.703	0.575	**0.661±0.062**
RMSE	12.43	13.16	7.54	7.22	**10.09±3.14**	13.28	15.97	10.68	9.28	**12.3±2.95**

Fig. 2: Subject 2 personalized model test set estimations against measurements, "———" for measurements and "-·-·-·-" for predictions.

TABLE III: Subject 3 personalized model results

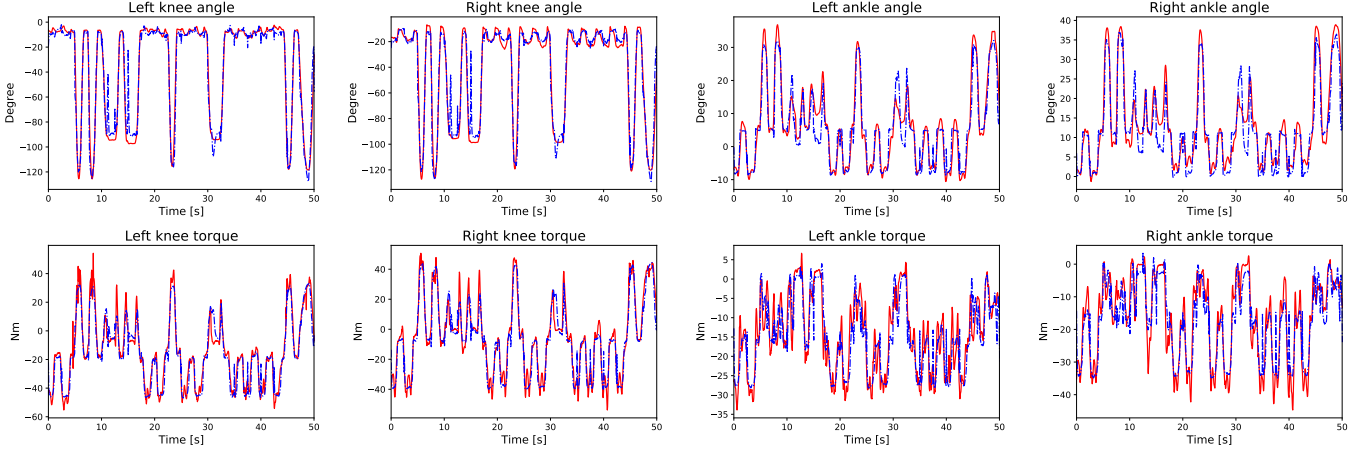| Evaluation metrics	Angle					Torque				
	Left knee	Right knee	Left ankle	Right ankle	**mean ± Std.**	Left knee	Right knee	Left ankle	Right ankle	**mean ± Std.**
R^2	0.979	0.981	0.911	0.943	**0.954±0.033**	0.957	0.940	0.941	0.952	**0.948±0.008**
RMSE	6.97	6.96	3.48	3.47	**5.22±2.01**	5.94	6.10	4.41	4.63	**5.27±0.87**

Fig. 3: Subject 3 personalized model test set estimations against measurements, "——" for measurements and "-----" for predictions.

TABLE IV: Subject 4 personalized model results

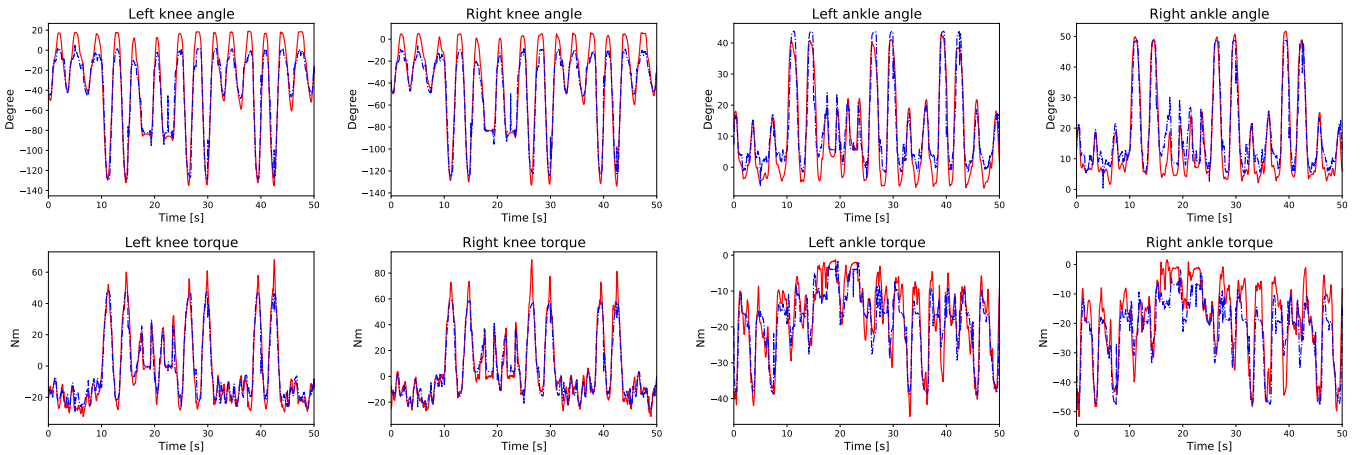| Evaluation metrics	Angle					Torque				
	Left knee	Right knee	Left ankle	Right ankle	**mean ± Std.**	Left knee	Right knee	Left ankle	Right ankle	**mean ± Std.**
R^2	0.953	0.966	0.926	0.963	**0.952±0.018**	0.940	0.937	0.955	0.926	**0.940±0.012**
RMSE	11.86	10.41	4.82	4.22	**7.83±3.87**	5.41	6.16	4.35	6.74	**5.67±1.03**

Fig. 4: Subject 4 personalized model test set estimations against measurements, "——" for measurements and "-----" for predictions.

TABLE V: Subject 5 personalized model results

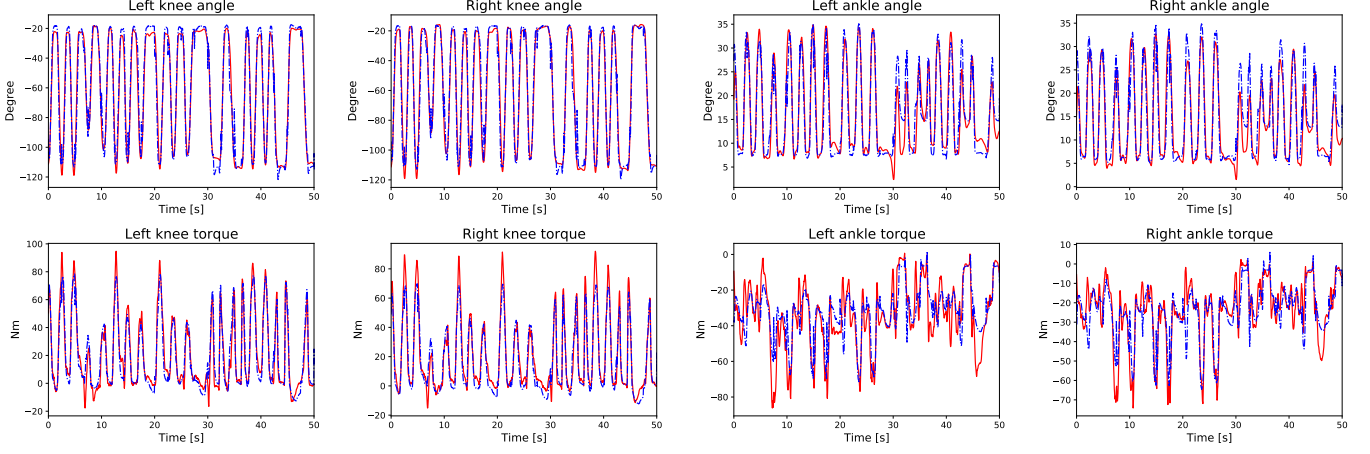| Evaluation metrics	Angle					Torque				
	Left knee	Right knee	Left ankle	Right ankle	**mean ± Std.**	Left knee	Right knee	Left ankle	Right ankle	**mean ± Std.**
R^2	0.992	0.992	0.975	0.968	**0.982±0.012**	0.951	0.941	0.907	0.905	**0.926±0.023**
RMSE	6.40	6.82	2.80	2.95	**4.74±2.16**	5.93	5.78	11.19	9.12	**8.01±2.62**

Fig. 5: Subject 5 personalized model test set estimations against measurements, "——" for measurements and "-·-·-·-" for predictions.

TABLE VI: Subject 6 personalized model results

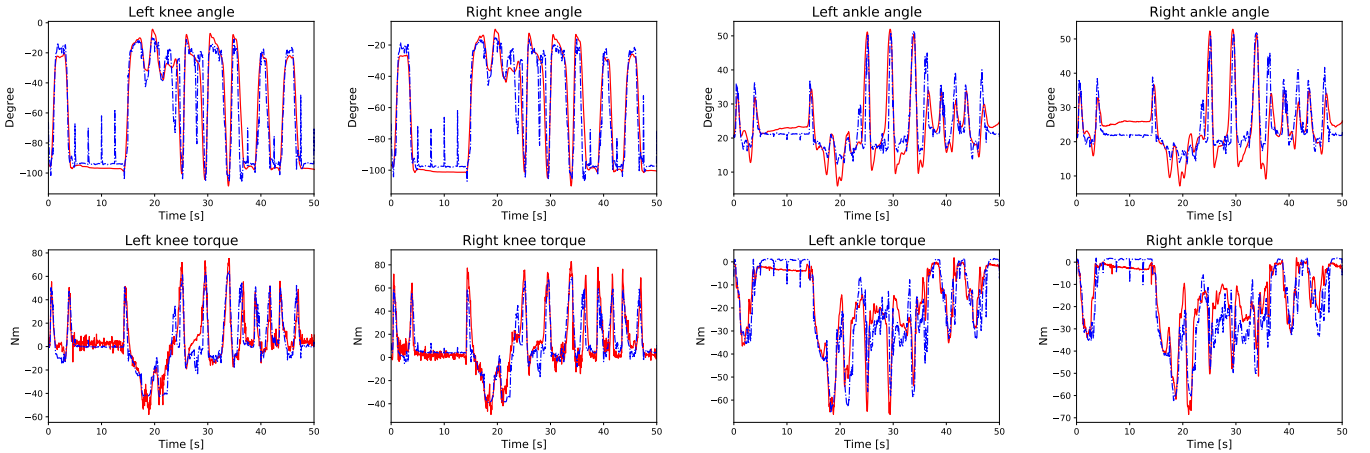| Evaluation metrics	Angle					Torque				
	Left knee	Right knee	Left ankle	Right ankle	**mean ± Std.**	Left knee	Right knee	Left ankle	Right ankle	**mean ± Std.**
R^2	0.968	0.973	0.954	0.956	**0.963±0.009**	0.775	0.769	0.900	0.890	**0.834±0.071**
RMSE	12.14	11.73	5.18	5.39	**8.61±3.84**	11.17	12.14	8.55	8.58	**10.11±1.83**

Fig. 6: Subject 6 personalized model test set estimations against measurements, "——" for measurements and "-·-·-·-" for predictions.

TABLE VII: Subject 7 personalized model results

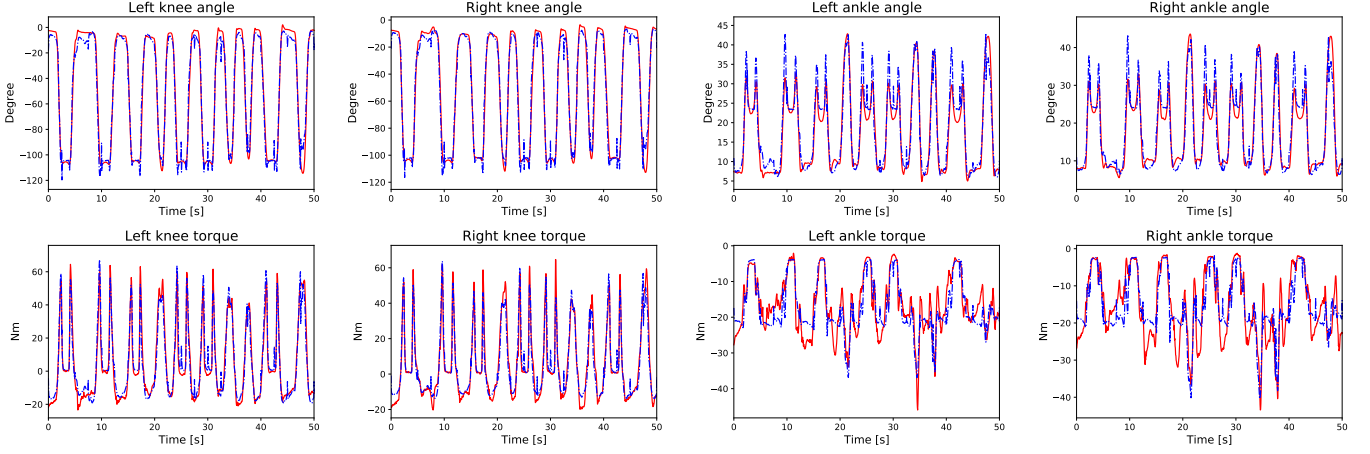| Evaluation metrics	Angle					Torque				
	Left knee	Right knee	Left ankle	Right ankle	**mean ± Std.**	Left knee	Right knee	Left ankle	Right ankle	**mean ± Std.**
R^2	0.959	0.962	0.911	0.908	**0.935±0.029**	0.932	0.921	0.931	0.869	**0.913±0.030**
RMSE	9.71	9.60	5.69	5.32	**7.58±2.40**	10.61	10.59	9.05	9.44	**9.92±0.80**

Fig. 7: Subject 7 personalized model test set estimations against measurements, "——" for measurements and "·--·--·" for predictions.

TABLE VIII: Subject 8 personalized model results

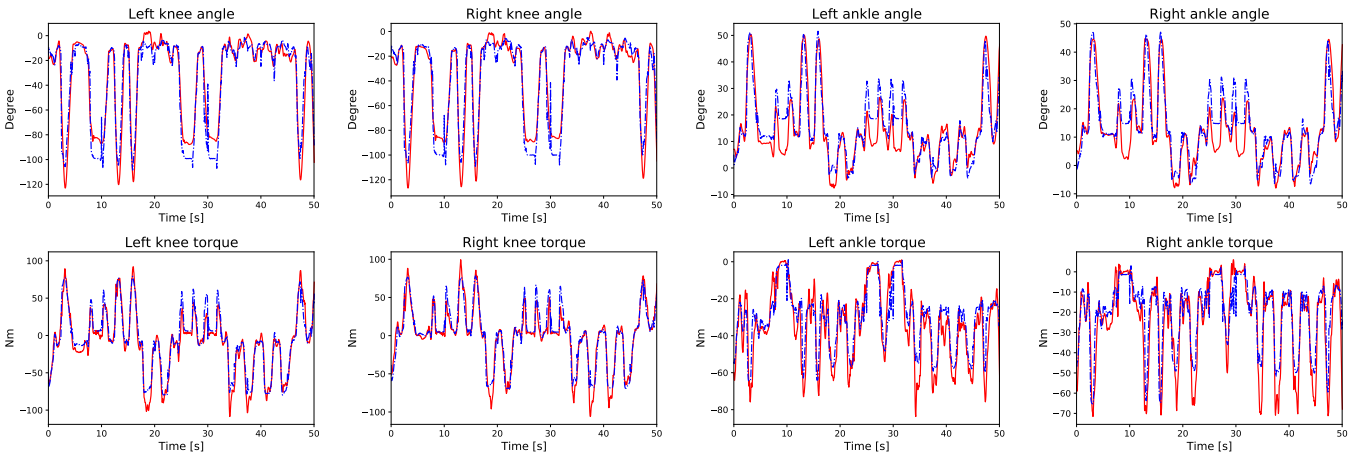| Evaluation metrics	Angle					Torque				
	Left knee	Right knee	Left ankle	Right ankle	**mean ± Std.**	Left knee	Right knee	Left ankle	Right ankle	**mean ± Std.**
R^2	0.991	0.993	0.983	0.982	**0.987±0.006**	0.945	0.932	0.959	0.931	**0.942±0.013**
RMSE	6.01	5.48	2.82	2.83	**4.29±1.70**	5.61	5.47	3.9	4.63	**4.90±0.80**

Fig. 8: Subject 8 personalized model test set estimations against measurements, "——" for measurements and "·--·--·" for predictions.

TABLE IX: Subject 1 general model results

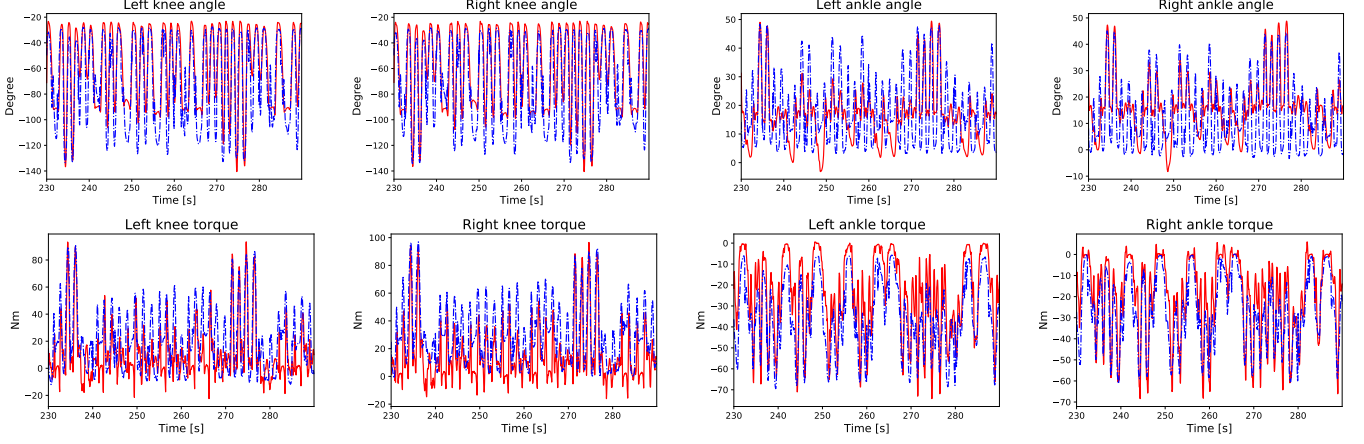| Evaluation metrics	Angle					Torque				
	Left knee	Right knee	Left ankle	Right ankle	**mean ± Std.**	Left knee	Right knee	Left ankle	Right ankle	**mean ± Std.**
R^2	0.938	0.941	0.763	0.596	**0.810±0.165**	0.548	0.640	0.886	0.865	**0.735±0.167**
RMSE	19.37	18.86	10.34	10.88	**14.86±4.92**	20.29	22.08	13.13	11.46	**16.74±5.23**

Fig. 9: Subject 1 general model estimations against measurements, "———" for measurements and "-----" for predictions.

TABLE X: Subject 4 general model results

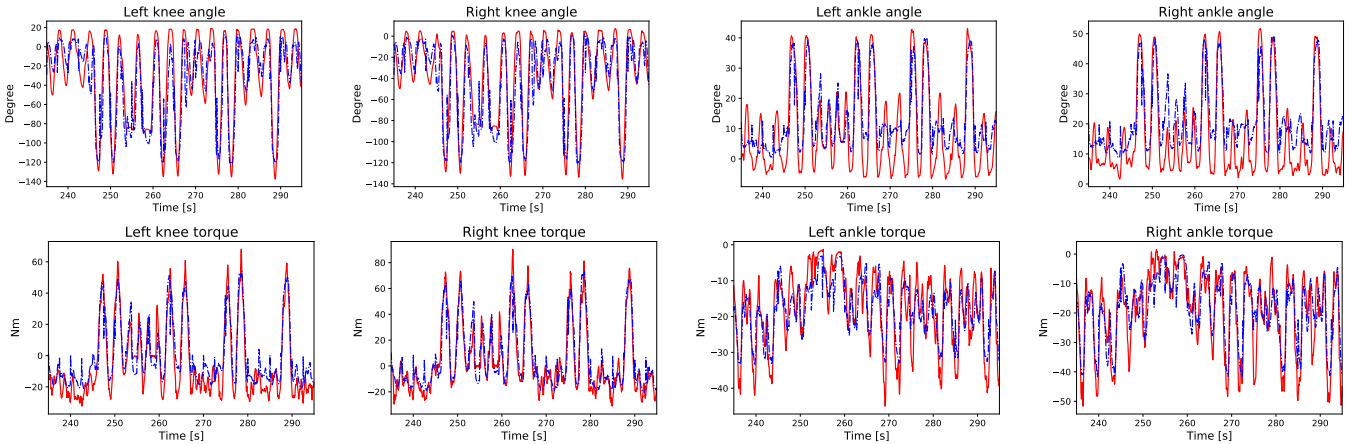| Evaluation metrics	Angle					Torque				
	Left knee	Right knee	Left ankle	Right ankle	**mean ± Std.**	Left knee	Right knee	Left ankle	Right ankle	**mean ± Std.**
R^2	0.824	0.876	0.739	0.876	**0.829±0.065**	0.772	0.832	0.922	0.897	**0.856±0.067**
RMSE	22.87	19.86	7.29	7.53	**14.39±8.15**	8.89	9.47	5.41	6.83	**7.65±1.87**

Fig. 10: Subject 4 general model estimations against measurements, "———" for measurements and "-----" for predictions.

TABLE XI: Subject 5 general model results

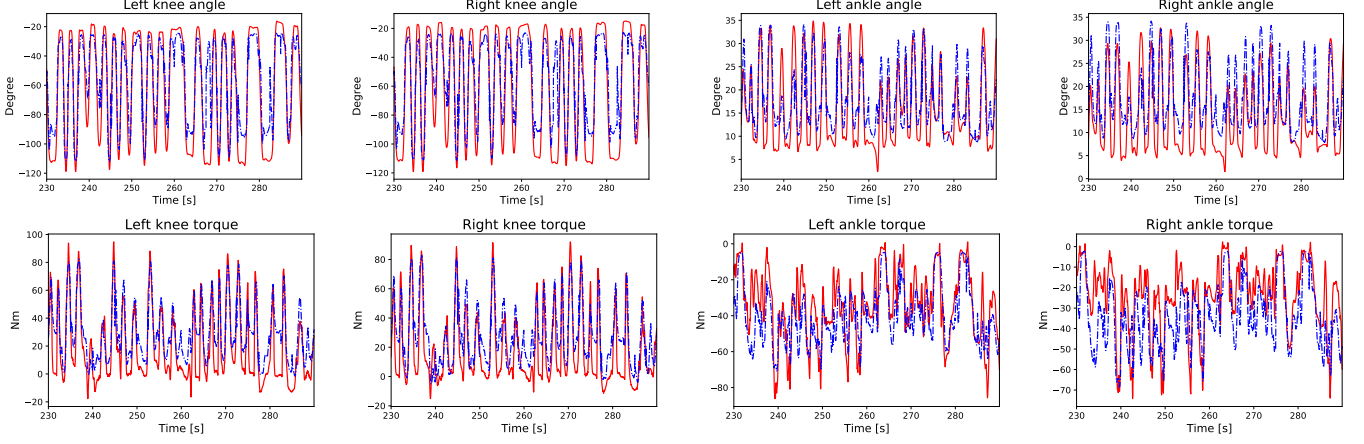| Evaluation metrics	Angle					Torque				
	Left knee	Right knee	Left ankle	Right ankle	mean ± Std.	Left knee	Right knee	Left ankle	Right ankle	mean ± Std.
R^2	0.9396	0.9328	0.9402	0.9098	**0.931±0.014**	0.8276	0.8129	0.8967	0.8345	**0.843±0.037**
RMSE	15.83	16.37	4.74	5.7	**10.66±6.3**	15.23	15.44	13.21	14.49	**14.59±1.01**

Fig. 11: Subject 5 general model estimations against measurements, "——" for measurements and "·-·-·-" for predictions.

TABLE XII: Subject 8 general model results

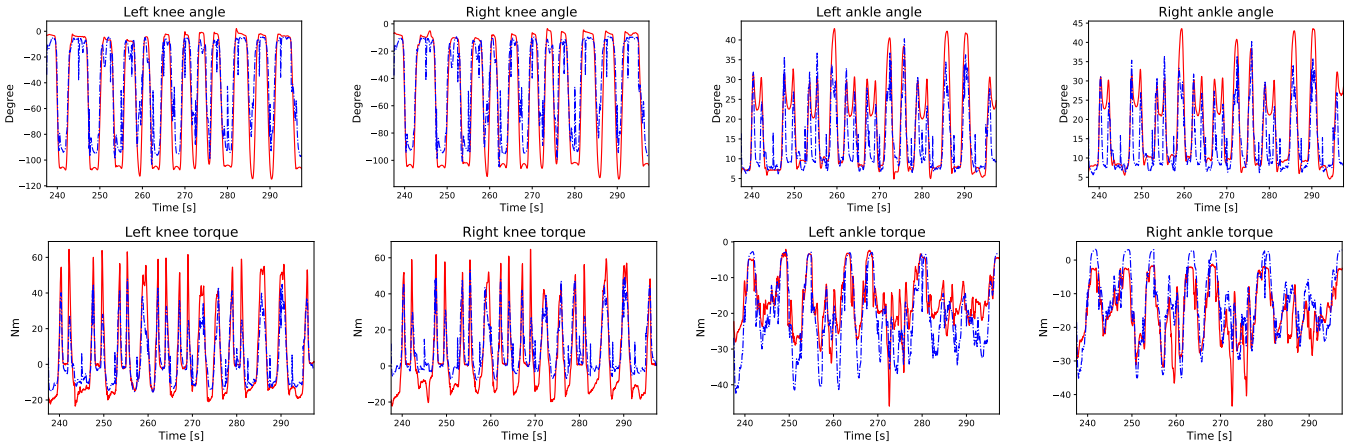| Evaluation metrics	Angle					Torque				
	Left knee	Right knee	Left ankle	Right ankle	mean ± Std.	Left knee	Right knee	Left ankle	Right ankle	mean ± Std.
R^2	0.9097	0.9263	0.9213	0.9073	**0.916±0.009**	0.7882	0.7984	0.7916	0.9375	**0.829±0.073**
RMSE	16.79	15.58	5.77	6.17	**11.08±5.92**	10.55	9.03	7.22	5.81	**8.15±2.07**

Fig. 12: Subject 8 general model estimations against measurements, "——" for measurements and "·-·-·-" for predictions.