Supporting Information Two independent contributions to step variability during over-ground human walking S. H. Collins and A. D. Kuo

Table S4 Results from parameter study on the filter to separate short- and long-term components. Step variabilities of Table S2 (variance) and Table S3 (RMS variability) are recomputed here with filter cut-off period of 10 steps (rather than 30 steps). The choice of filter causes minor differences in tabulated results, but statistically significant findings remain unchanged: The correlation between speed-related and long-term step lengths remained significant with $R^2 = 0.78$ (P = 0.0005), and the correlation for step widths remained insignificant with $R^2 = 0.03$ (P = 0.14)

Parameter (10-step cut-off)	units	Eyes Open condition	Eyes Closed condition
Short-term			
Step length	L^2	0.000120 ± 0.000047	0.000202 ± 0.000070
Step width	L^2	0.000483 ± 0.000172	0.001063 ± 0.000380
Long-term			
Step length	L^2	0.000159 ± 0.000097	0.000156 ± 0.000058
Step width	L^2	0.000163 ± 0.000055	0.000262 ± 0.000097
RMS Variability			
Short-term			
Step length	m	0.0103 ± 0.0019	0.0134 ± 0.0022
Step width	m	0.0207 ± 0.0036	0.0307 ± 0.0054
Long-term			
Step length	m	0.0116 ± 0.0035	0.0117 ± 0.0022
Step width	m	0.0120 ± 0.0020	0.0152 ± 0.0029