

**Appendix SI.** Variance components resulting from the G-study of the wear-and-tear scale\*

Source	Variance
Shoe	888.181
Hours	0.115
Weeks	0.527
Profession	0
Experience	0
Rater	0
Shoe * Hours	0.531
Shoe * Weeks	0.064
Shoe * Profession	2.589
Shoe * Experience	0
Shoe * Rater	0
Hours * Weeks	0
Hours * Profession	0.132
Hours * Experience	0
Hours * Rater	0.194
Weeks * Profession	0.284
Weeks * Experience	0.34
Weeks * Rater	0.289
Profession * Experience	0
Profession * Rater	2.568
Experience * Rater	2.595
Shoe * Hours * Weeks	0
Shoe * Hours * Profession	0.475
Shoe * Hours * Experience	0
Shoe * Hours * Rater	0
Shoe * Weeks * Profession	0.329
Shoe * Weeks * Experience	0
Shoe * Weeks * Rater	0.053
Shoe * Profession * Experience	1.331
Shoe * Profession * Rater	0
Shoe * Experience * Rater	1.046
Hours * Weeks * Profession	0.038
Hours * Weeks * Experience	0.241
Hours * Weeks * Rater	0
Hours * Profession * Experience	0
Hours * Profession * Rater	0
Hours * Experience * Rater	0
Weeks * Profession * Experience	0
Weeks * Profession * Rater	0
Weeks * Experience * Rater	0
Profession * Experience * Rater	0.365
Shoe * Hours * Weeks * Profession	0
Shoe * Hours * Weeks * Experience	0.076
Shoe * Hours * Weeks * Rater	0.011
Shoe * Hours * Profession * Experience	0
Shoe * Hours * Profession * Rater	0.033
Shoe * Hours * Experience * Rater	0
Shoe * Weeks * Profession * Experience	0
Shoe * Weeks * Profession * Rater	0.022
Shoe * Weeks * Experience * Rater	0.071
Shoe * Profession * Experience * Rater	1.973
Hours * Weeks * Profession * Experience	0
Hours * Weeks * Profession * Rater	0.016
Hours * Weeks * Experience * Rater	0
Hours * Profession * Experience * Rater	0.14
Weeks * Profession * Experience * Rater	0.141
Shoe * Hours * Weeks * Profession * Experience	0.196
Shoe * Hours * Weeks * Profession * Rater	0
Shoe * Hours * Weeks * Experience * Rater	0
Shoe * Hours * Profession * Experience * Rater	0.067
Shoe * Weeks * Profession * Experience * Rater	0.263
Hours * Weeks * Profession * Experience * Rater	0.034
Shoe * Hours * Weeks * Profession * Experience *Rater	1.128

\*Purpose of this Appendix: researchers familiar with this theory can calculate the reliability coefficients that apply in their own study, using these variance components, and taking into account the design of their own study with its own number of re-tests and raters.