# Correlation Matrix for Cost Components



| | 4. Linear Jerk | 5. Torque Squared | 6. Absolute Torque | 7. Torque Rate Squared | 8. Absolute Torque Rate | 9. Torque 2nd Rate Squared | 10. Absolute Torque 2nd Rate | 11. yGRF Rate | 12. xGRF Rate | 13. Positive Work Rate | 14. Absolute Work Rate | 15. Kinetic Energy | 16. Pk-to-pk Angular Momentum | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0.29 ±0.23 | 0.63 ±0.16 | 0.16 ±0.19 | 0.57 ±0.12 | 0.04 ±0.11 | 0.42 ±0.17 | 0.19 ±0.22 | 0.21 ±0.21 | 0.34 ±0.23 | 0.55 ±0.22 | 0.42 ±0.22 | 0.40 ±0.19 | 1. Angular Acceleration |
| | | 0.29 ±0.22 | 0.52 ±0.15 | 0.21 ±0.18 | 0.57 ±0.10 | 0.08 ±0.13 | 0.44 ±0.16 | 0.38 ±0.26 | 0.30 ±0.22 | 0.30 ±0.21 | 0.47 ±0.20 | 0.35 ±0.20 | 0.27 ±0.18 | 2. Angular Jerk |
| 0.93 ±0.12 | | 0.03 ±0.17 | 0.02 ±0.15 | | | 0.23 ±0.21 | 0.04 ±0.15 | 0.16 ±0.15 | | 0.22 ±0.11 | 0.07 ±0.11 | 0.24 ±0.09 | 0.35 ±0.09 | 3. Linear Acceleration |
| | | 0.01 | | | | 0.16 ±0.20 | 0.02 | 0.10 ±0.19 | | 0.12 ±0.18 | 0.04 ±0.18 | 0.17 ±0.17 | 0.29 ±0.13 | 4. Linear Jerk |
| | | | 0.64 ±0.09 | 0.74 ±0.18 | 0.69 ±0.14 | 0.21 ±0.21 | 0.59 ±0.11 | 0.18 ±0.17 | 0.64 ±0.16 | 0.47 ±0.13 | 0.56 ±0.13 | 0.31 ±0.18 | 0.09 ±0.18 | 5. Torque Squared |
| | | | | 0.31 ±0.19 | 0.78 ±0.08 | 0.13 ±0.12 | 0.62 ±0.12 | 0.23 ±0.13 | 0.33 ±0.17 | 0.68 ±0.07 | 0.92 ±0.03 | 0.67 ±0.08 | 0.33 ±0.21 | 6. Absolute Torque |
| | | | | | 0.58 ±0.13 | 0.32 ±0.18 | 0.61 ±0.12 | 0.11 ±0.22 | 0.91 ±0.06 | 0.20 ±0.22 | 0.25 ±0.22 | 0.09 ±0.22 | 0.04 ±0.19 | 7. Torque Rate Squared |
| | | | | | | 0.17 ±0.14 | 0.85 ±0.10 | 0.22 ±0.13 | 0.59 ±0.13 | 0.46 ±0.16 | 0.67 ±0.13 | 0.42 ±0.15 | 0.27 ±0.21 | 8. Absolute Torque Rate |
| | | | | | | | 0.37 ±0.14 | 0.27 ±0.21 | 0.39 ±0.17 | 0.33 ±0.17 | 0.20 ±0.14 | 0.19 ±0.16 | 0.05 ±0.18 | 9. Torque 2nd Rate Squared |
| | | | | | | | | 0.28 ±0.17 | 0.63 ±0.12 | 0.49 ±0.13 | 0.60 ±0.13 | 0.41 ±0.15 | 0.11 ±0.13 | 10. Absolute Torque 2nd Rate |
| | | | | | | | | | 0.17 ±0.21 | 0.40 ±0.14 | 0.34 ±0.13 | 0.38 ±0.14 | | 11. yGRF Rate |
| | | | | | | | | | | 0.23 ±0.21 | 0.30 ±0.21 | 0.12 ±0.22 | 0.06 ±0.20 | 12. xGRF Rate |
| | | | | | | | | | | | 0.87 ±0.02 | 0.80 ±0.08 | 0.03 ±0.11 | 13. Positive Work Rate |
| | | | | | | | | | | | | 0.83 ±0.05 | 0.21 ±0.15 | 14. Absolute Work Rate |
| | | | | | | | | | | | | | 0.08 ±0.13 | 15. Kinetic Energy |
| | | | | | | | | | | | | | | 16. Pk-to-pk Angular Momentum |