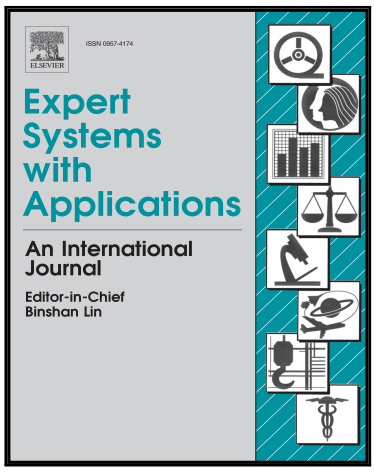

Exploring relations between EMG and biomechanical data recorded during a golf swing

Antanas Verikas, James Parker, Marija Bacauskiene, M.Charlotte Olsson

PII: S0957-4174(17)30465-7
DOI: 10.1016/j.eswa.2017.06.041
Reference: ESWA 11412

To appear in: *Expert Systems With Applications*

Received date: 5 April 2016
Revised date: 28 April 2017
Accepted date: 28 June 2017

Please cite this article as: Antanas Verikas, James Parker, Marija Bacauskiene, M.Charlotte Olsson, Exploring relations between EMG and biomechanical data recorded during a golf swing, *Expert Systems With Applications* (2017), doi: 10.1016/j.eswa.2017.06.041

Highlights

- A novel technique to explore relations between EMG and biomechanical data is presented.
- Statistically significant relations between EMG and biomechanical data were revealed.
- High prediction accuracy of peak angular velocity of thorax and pelvis was obtained.
- Insights concerning coordination of human body parts during a golf swing were obtained.