

## **Response to Prof. Attila J. Trájer Comments**

**Authors: Dato Xu**

**Supervisor: Dr. habil. Gusztáv Fekete and Dr. András Kovács**

**Dissertation Title: Landing strategy optimization for lower limb injury risk reduction: Combining computational biomechanical modeling and machine learning**

**Dear Prof. Attila J. Trájer:**

Thank you very much for your previous constructive comments, and time spent analyzing my Manuscript entitled "**Landing strategy optimization for lower limb injury risk reduction: Combining computational biomechanical modeling and machine learning**". Those comments are all valuable and very helpful for revising and improving my paper, as well as the important guiding significance to my research.

### **Comments:**

The revised version of the doctoral dissertation demonstrates that the previously raised comments and suggestions have been addressed appropriately. Clarifications have been added regarding EMG sensor application, the consistency of terminology in signal processing and modelling has improved, and transitions between software tools are now more coherent. Additionally, the justification of parameter choices in machine learning methods has been expanded.

**Response:** Many thanks for your previous constructive comments. I am glad that the revised thesis adequately addresses your concerns.

### **Overall Opinion**

The revisions have improved the clarity and methodological transparency of the

dissertation. The updated version is considered suitable for public defence.

**Thank you again for your constructive and valuable criticism, and the time spent analyzing this Manuscript. I reiterate our sincere gratitude to you for your help and patience. Thank you very much!**

*Datao Xu*

Author: Datao Xu

Date: 2025.06.16