

Federal University of Pampa - Unipampa Computer Engeneering Course Medical Informatics and Microelectronics Group - GIMM



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To Journal on Interactive Systems editors

Dear Editor,

In this summary of differences, we highlight the new additions to this paper compared with the previous work entitled "Gamificação na Reabilitação Física de Amputados: Uma Abordagem Baseada em Jogo Sério" published at SBGAMES 2023. Significant differences exist between the new paper submitted now and the previous one. This way, we can list up some of the main contributes, are:

- Proposes a new architecture named Victus Exergame that uses a web application for presenting data information to Physiotherapists. This approach is more suitable for developing new indicators besides taking the game data to an online database that can be accessed and viewed from anywhere with more dynamism and the latest features for manipulating and presenting this data.
- Another modification made was developing a new track based on a beach scenario. The
 two tracks highlight the diversity of environments and stimulate different visual
 experiences for players, escaping the monotony of stationary exercise.
- Besides that, considering the patient's constraints, some features to help them were built. First, a side barrier system was developed to avoid wasting time returning to the road. This way, the patients will not be demotivated during the learning curve. Finally, some improvements were made, considering the playability and system points that elevate the game's challenges.



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We translated this version to JIS for English and refactored some sections and discussions. Besides, we have added a better explanation of the proposed new architecture, tracks that named the tool by Victus Exergames. Finally, we extended the results section to show the initial experiments with our partners.

Sincerely,

Rafael Luz Melo

Bagé, March 3, 2024