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A Recommender System for the Rehabilitation of People with Disabilities

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Abstract

Recommender systems are software applications that aim to support users in their decision-making. Advanced recommendation models usually deal with the common challenges of enormous information (scalability) and lack of information (sparsity). The proposed recommender system uses rating prediction based on machine learning along with optimization algorithms in order to provide a solution for sparsity and scalability problems. The Optimized neural network algorithm gives the best result with accuracy and Precision rate 95%, and 92 % for respectively.

Key Words: Recommender system, rating prediction, spinal cord injurie, machine learning.