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Modern Sensing Technologies for Piano Pedagogy and Professional Diseases Prevention

Repetitive movements performed by piano players often lead to chronic back, arms and hands pathologies. Even though monitoring of these movements has been explored for more than a century, the age of computers and electronic sensors brings numerous new technologies to push this investigation a step ahead. The present work aims at adapting computer vision techniques to achieve quantitative monitoring of complex physical movements that can be used to enhance piano teaching and prevent the development of piano-playing related health problems.