Livrable 2 – 10 scientific articles

# How can a workstation be ergonomically designed with the help of AI?



Group 1:

Ludovic Brieulle

Arnaud Dellamonica

Baptiste Garnier

Emilien Lamant

1. Development of ergonomic posture recognition technique based on 2D ordinary camera for construction hazard prevention through view-invariant features in 2D skeleton motion:

<https://www.sciencedirect.com/science/article/abs/pii/S1474034617302562>

Name of the PDF: 2DCameraBTP

1. Ergonomic posture recognition using 3D view-invariant features from single ordinary camera:

<https://www.sciencedirect.com/science/article/abs/pii/S0926580518302231>

Name of the PDF: 3DCamera

1. Automatic assessment of the ergonomic risk for manual manufacturing and assembly activities through optical motion capture technology:

<https://www.sciencedirect.com/science/article/pii/S2212827118303573>

Nom du PDF: ErgonomicRiskOpticalMotionCapture

1. Tracking-based 3D human skeleton extraction from stereo video camera toward an on-site safety and ergonomic analysis:

<https://www.emerald.com/insight/content/doi/10.1108/CI-10-2015-0054/full/html?fullSc=1>

Nom du PDF: 3DHumanStereoCamera

1. 3D Human Body Reconstruction for Worker Ergonomic Posture Analysis with Monocular Video Camera:

<https://www.researchgate.net/profile/Wenjing-Chu/publication/334127276_3D_Human_Body_Reconstruction_for_Worker_Ergonomic_Posture_Analysis_with_Monocular_Video_Camera/links/5d1bd452458515c11c0ca857/3D-Human-Body-Reconstruction-for-Worker-Ergonomic-Posture-Analysis-with-Monocular-Video-Camera.pdf>

Nom du PDF: 3DHumanBodyMonocularVideoCamera

1. Postural optimization for an ergonomic human-robot interaction:

<https://ieeexplore.ieee.org/abstract/document/8206107>

Name of the PDF: ErgonomicHumanRobot

1. Ergonomic Evaluation of Body Postures in Order Picking Systems Using Motion Capturing:

<https://ieeexplore.ieee.org/abstract/document/8756344>

Nom du PDF: ErgonomicMotionCapturing

1. Ergonomic Risk Assessment of Developing Musculoskeletal Disorders in Workers with the Microsoft Kinect: TRACK TMS:

<https://www.sciencedirect.com/science/article/abs/pii/S1959031818302732>

Nom du PDF: MicrosoftKinect

1. Ergonomic Design of a Workplace Using Virtual Reality and a Motion Capture Suit:

<https://www.mdpi.com/2076-3417/12/4/2150>

Name of the PDF: VirtualReality

1. A review of the evolution of scientific literature on technology-assisted approaches using RGB-D sensors for musculoskeletal health monitoring:

<https://www.sciencedirect.com/science/article/abs/pii/S0010482521001104>

Name of the PDF: Review