

Improving Workers' Ergonomics by Cobots and Exoskeletons

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(Workshop Presentation)

Abstract

Cobots allow to combine the dexterity, flexibility and problem-solving ability of humans, with the strength, endurance, quality consistency and precision of robots and can be redeployed to other tasks much more easily. By also placing health, the working conditions and the sustainable development goals central, we can ensure ourselves to reap the full benefits not only economically but also for our society. This talk will discuss the multidisciplinary approach to develop a new generation of cobots and exoskeletons and control algorithms for improving the ergonomics of workers in the manufacturing industry.