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PROPOSING AN INTEGRATED METHOD FOR ERGONOMIC RISK Assessment involving physical and psychosocial risks

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ncreasing consumption speed in our globalized world has put businesses into a fierce competitive environment. With increasingly competitive pace, businesses have been reluctant to offer employees an ergonomic work environment to get more production and service output. Workers who are expected to produce and service increasing amount of output have begun to work in bad ergonomic environments increasingly. Importance of ergonomics has been noticed rapidly as ergonomically unsuitable working conditions have led to a decline in the productivity of employees. One of the most important study areas of ergonomics is to investigate the risks that cause occupational musculoskeletal system diseases (OMSD) and the development of preventive measures for these conditions. The physical and psychosocial ergonomic risks are quite influential in the formation of OMSD. There are many physical and psychosocial ergonomic risk assessment tools. However, there is no method that merges these two different risk groups to assess them at

the same time. Physical ergonomic risk assessment methods alone or psychosocial ergonomic risk assessment methods alone do not provide sufficient information on hazard dimensions of ergonomic risks. The purpose of this study is to propose a combined ergonomic risk assessment method by weighting outcomes of physical ergonomic risk assessment methods and psychosocial ergonomic risk assessment methods with multi criteria decision making methods and provide an integrated evaluation.

Biography

Elif Güler is a Research Assistant at Celal Bayar University, Department of Industrial Engineering and Master of Science student at Dokuz Eylul University (DEU), Department of Industrial Engineering (IE). Her research interests are "Ergonomics, risk management and, multi-criteria decision making".

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