



The ISSA Section Machine and System Safety informs about activities in the Working Group Human Factors, Ergonomics and Safe Machine  
 <<https://www.safe-machines-at-work.org/human-factors>>

Nickel, P. (2020). Digitalisierung, Vernetzung, Dynamisierung und Maschinen- und Systemsicherheit. In: Trimpop, R., Fischbach, A., Seliger, I., Lynnyk, A., Kleineidam, N. & Große-Jäger, A. (Hrsg.), 21. Workshop: Psychologie der Arbeitssicherheit und Gesundheit. Gewalt in der Arbeit verhüten und die Zukunft gesundheitsförderlich gestalten! (113-116). Kröning: Asanger. [ISBN 978-3-89334-606-6]

<<https://www.asanger.de/titeluebersicht/arbeitsbetrieb/21-workshop-psychologie-der-arbeitssicherheit.php>>

Summary in English language:

### **Digitisation, Interconnectedness, Dynamics and Machine and System Safety.**

Development towards digitalised and dynamic industry 4.0 value-added networks call for human-centred design solutions according to human factors and ergonomics. This requires the design of digitisation closely linked to human information processing, dynamics in allocations of functions to people and to technical systems, and networking that mediates within organizations to meet requirements for mobile as well as secure multimodal and bi-directional interactions between people and/or people and technology. Human Factors, Ergonomics and Safe Machine, a working group of the ISSA Section Machine and System Safety, takes a work system approach to tackle issues in machinery safety. Human factors and ergonomics design requirements and recommendations, among others, facilitate the design of three interconnected interfaces in human-system interaction: the task, the interaction and the information interface. Future design of technical systems including digitisation, dynamics and interconnectedness should not be limited to classical ergonomic issues, but should be intensively oriented towards design requirements from human factors and ergonomics, related to all interfaces and the processes of human information processing.