



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

- presented their activities at the 20<sup>th</sup> Triennial Congress of the International Ergonomics Association (IEA 2018), August 26-30, 2018, Florence, Italy.
- published research findings as:  
 Michael Wichtl, Peter Nickel, Urs Kaufmann, Peter Bärenz, Luigi Monica, Siegfried Radandt, Hans-Jürgen Bischoff, & Manobhram Nellutla (2019). Improvements of Machinery and Systems Safety by Human Factors, Ergonomics and Safety in Human System Interaction. *Advances in Intelligent Systems and Computing (AISC)* 819, pp. 257-267.  
 <[https://doi.org/10.1007/978-3-319-96089-0\\_28](https://doi.org/10.1007/978-3-319-96089-0_28)>

### **Improvements of Machinery and Systems Safety by Human Factors, Ergonomics and Safety in Human-System Interaction**

*Abstract:* The International Social Security Association (ISSA) Section for Prevention of Occupational Risks in Machine and System Safety established a working group on Human Factors, Ergonomics and Safe Machines for reviewing, selecting and presenting design requirements and recommendations according to occupational safety and health (OSH) and human factors and ergonomics (HFE). An internet platform will inform, motivate and support machinery manufacturers, users and OSH experts to apply OSH and HFE when constructing, risk assessing, setting-up and operating machinery. Concepts like hierarchy of controls and work system design guide along relevant issues. Besides traditional approaches, a special emphasis is given to smart manufacturing calling for design solutions for human-system interaction according to OSH and HFE. <[https://doi.org/10.1007/978-3-319-96089-0\\_28](https://doi.org/10.1007/978-3-319-96089-0_28)>