

IEA VE NEWS

IEA Visual Ergonomics Technical Committee Newsletter

April 2022

From the chair

Finally, I have given an in-person talk. The Swiss Society of Opticians and Optometry invited me to share my experiences with Ergonomics (see item on page 2 of this newsletter). I was excited somehow because I might have forgotten how to keep my audience in the state of flow throughout my speech. I realized how many non-verbal communication cues we lack while giving a speech in front of a camera, with internet and the display a barrier between the speaker and the audience.

Almost all these communication cues are visual ones. Scientists are working on implementing such cues in the remote talk technology, for instance, by using augmented and virtual reality techniques, with 3D head mounted displays. This is a great challenge and an opportunity for visual ergonomists.



Best wishes and stay safe,

Marino Menozzi

IEA VE TC Chair

Research update

The German Statutory Accident Insurance DGUV (Deutsche Gesetzliche Unfall Versicherung) granted the Human Factors Engineering group of the Swiss Federal Institute of Technology (ETH Zürich) a three years research project aiming to investigate pedestrian visibility on camera-monitor-system in mobile machines. Visibility will be investigated in a simulated heavy construction work environment and in reality as well.

Publications by IEA VE TC members

Huang, YY (Rudy), Menozzi, M. (2022). Effects of viewing distance and age on the performance and symptoms in a visual search task in augmented reality. *Applied Ergonomics*, 102, 103746, doi: <https://doi.org/10.1016/j.apergo.2022.103746>

Ropelato, S., Menozzi, M. (2021). Hyper-reoriented walking ion minimal space. *Virtual Reality*, doi: <https://doi.org/10.1007/s10055-021-00608-0>

Cardoso, A., Colim, A., Bicho, E.; Braga, A.C.; Menozzi, M., Arezes, P. (2021). Ergonomics and Human Factors as a Requirement to Implement Safer Collaborative Robotic Workstations: A Literature Review. *Safety*, 7(71). doi: <https://doi.org/10.3390/safety7040071>

Conference round up

Encore

Jeffrey Anshel presented at the Virtual Ergonomics Summit, hosted by the American Posture Institute. This is the 2nd year he has presented at this forum. The event was held on 4-6 March 2022.



Keynote

On 17 March 2022, **Marino Menozzi** gave a keynote speech with the title “Ergonomics yesterday, today, and in the future” at the “System Conference” of the Japanese Ergonomics Society.

Design

Sambath RD presented a paper "Efficacy of Sex Differences on the Perceptual Experience of Virtual Building Images" at the HWWE 2021 conference conducted by the Department of Design, Indian Institute of Technology Guwahati, with the Indian Ergonomic Society, 1-3 December 2021. The abstract is available here: https://event.iitg.ac.in//hwwe2021/img/Abstract_Book.pdf

Presentations to optometry audiences

Jennifer Long was a keynote presenter at the Optometry Australia “Growing your Occupational Optometry Skill Set” conference in Canberra, Australia, on 27 February 2022. The day was dedicated to occupational optometry and had 6 presenters who spoke about vision and computers, driving, aviation, sports, colour vision, prescribing tips and business issues. For more information about the conference see: <https://www.optometry.org.au/institute-of-excellence/cpd-events/canberra-conference-growing-your-occupational-optometry-practice/>

Marino Menozzi presented to the Swiss Society of Opticians and Optometry on 21 March 2022 in Bern, Switzerland. The title of his presentation was “Digital activity analysis in the workplace”. A brochure about the event is available here:

https://sbao.ch/de/wp-content/uploads/sites/2/211221_SBAO_Broschuere_Fachtagung_low.pdf



CIE Australia CALreCo conference

The CIE (Australia) Lighting Research Conference was held online on 8 February 2022. The program included Australian and international speakers, with the day divided into themes: Interior lighting and LED, visibility and perception, clinical applications, sky glow and road lighting, photobiology and blue light hazards. For more information, including the abstract booklet, see <http://www.cie.org.au/calreco2022.html>

NEXT NEWSLETTER DEADLINE: 30 July 2022

Please send any visual ergonomics news or announcements to Jennifer Long at jlong@visualergonomics.com.au