

IEA VE NEWS

IEA Visual Ergonomics Technical Committee Newsletter

December 2018

Welcome

The IEA triennial congress in Florence, Italy, was a total success. All three sessions chaired by our visual ergonomics technical committee (VE TC) were top quality and the audience showed a strong interest in the broad variety of topics presented. More than 40 attendees at our VE sessions signed up for our TC to receive our newsletters. This boosts the number of our IEA VE TC members to 132.

New technologies, such as in-car information systems, energy saving light sources, or augmented and virtual reality are thrown on the market with possibly unknown visual issues and are therefore challenging our creativity for finding a remedy. As a holistic discipline, Ergonomics has a key role in preventing and dealing with new, complex issues. However, solutions require linking science and practice by means of networks. Networks are also a key element for bringing our interests in to focus at our customers, such as employers, employees, health organizations, and founding agencies. Growing the Visual Ergonomics TC is a promising way to help our aims to optimize work for well-being and overall system performance. Since the socio-technical system is changing rapidly, strategies for growing our network should be discussed in the near future.

Changes to the IEA TC Visual Ergonomics executive board

A TC general meeting was held at the IEA triennial congress. As the IEA regulations limit the term of TC chairs to six years, Jennifer Long stepped down from the chair position. She agreed to remain a member of the executive committee, and so the committee will continue to benefit from her solid experience. The committee thanks her for the brilliant, hard work in caring about the prosperity of the committee.

The former vice-chair, Marino Menozzi, was elected as the new chair and Hillevi Hemphälä as the new co-chair. Magne Helland, one of the founding members and the first chair person of our TC, left the executive committee. We are very much in debt to Magne for initiating our committee and for having managed our website for so many years and with much care. Two TC members, both from Taiwan, have been elected to reinforce the TC executive committee, Rudy Ying-Yin Huang from the National Taipei University of Technology and Frank Po-Hung Lin from Ming Chi University of Technology. We wish them a good start and thank them for their support.

Marino Menozzi

IEA VE TC Chair



Past and present IEA VE TC Executive members (L to R): Frank Po-Hung Lin, Hans Richter, Magne Helland, Marino Menozzi, Hillevi Hemphälä, Jennifer Long and Rudy Ying-Yin Huang



Congratulations

Jennifer Veitch was awarded the Illuminating Engineering Society (IES) Medal in August for “meritorious technical achievement that has conspicuously furthered the profession, art or knowledge of illuminating engineering”. Congratulations Jennifer.

Publications

Journal articles

- Zakerian SA, Yazdanirad S, Gharib S, Azam K, Zare A (2018) The effect of increasing the illumination on operators' visual performance in the control-room of a combined cycle power plant. *Annals of Occupational and Environmental Medicine*: 30:56. <https://doi.org/10.1186/s40557-018-0267-3>.
- Richter HO, Forsman M, Elcadi GH, Brautaset R, Marsh JE, Zetterberg C (2018) Prefrontal cortex oxygenation evoked by convergence load under conflicting stimulus-to-accommodation and stimulus-to-vergence eye-movements measured by NIRS. *Frontiers in Human Neuroscience* 12:298. doi: 10.3389/fnhum.2018.00298
- Najjar SA & Sanjram PK (2018) Gaze behavior and human error in distracted driving: Unlocking the complexity of articulatory rehearsal mechanism. *Transportation Research Part F: Traffic Psychology and Behaviour*, 59A, 12–23. <https://doi.org/10.1016/j.trf.2018.08.005>
Mr Sajad's doctoral research is under the supervision of Dr. Sanjram P Khanganba.

Book

Announcement by Mark Rosenfield

A new textbook “Clinical Cases in Eye Care” was published by Wolters Kluwer in October 2018. The editors are Mark Rosenfield (SUNY College of Optometry), Eunice Myung Lee (Southern California College of Optometry) and Denise Goodwin (Pacific University College of Optometry). The book includes over 120 cases demonstrating conditions commonly seen in the clinical setting.

The concept for the book arose out of a need for a bank of case examples which could be used in clinical teaching, and especially useful for stimulating discussion within a problem based learning (PBL) strategy. With PBL a clinical case can be used throughout the curriculum in various levels of detail according to the knowledge of the reader.

Topics of relevance to the area of ergonomics include the management and control of refractive errors, prescribing for sports vision, hereditary and acquired color vision deficiencies, dispensing issues with progressive addition lenses, driving with bioptic telescopes and 3 cases written by Jennifer Long on the topics of prescribing for musicians, prescribing for a computer user and eye protection.

Health hazards for pilots

During a workshop at IEA2018 discussion centered around the lack of literature which systematically investigates the workplace health hazards of airline pilots.

It would be interesting to develop a comprehensive review of the literature and bring together all the expertise existing in our group on airline pilot's health and occupational health hazards. At this time, the project is just an idea, with no resources yet.

If you are interested in contributing to the project, please contact Sven Hoffmann, University of Zurich, at sven.hoffmann@uzh.ch



Conferences in 2019

- International Commission on Illumination, CE 2019 29th Quadrennial Session. Washington DC, USA. 14-22 June 2019. <http://www.cie.co.at/news/cie-2019-29th-quadrennial-session>
- Nordic Ergonomics Society, "Future Work: Digitalisation and Innovation", Elsinore, Denmark. 25-28 August 2019. <http://www.nes19.dk/>

It's not too late



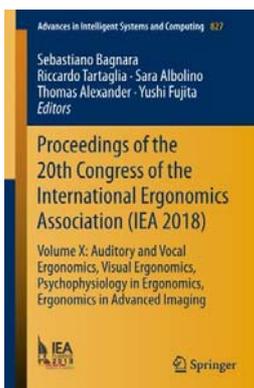
CALL FOR PAPERS: Virtual Special Issue on the topic of Visual Ergonomics, International Journal of Industrial Ergonomics (Elsevier)

Deadline has been extended to 30 December 2018

To submit a manuscript, please visit:

<https://www.journals.elsevier.com/international-journal-of-industrial-ergonomics/call-for-papers/visual-ergonomics>

IEA2018 Conference Proceedings



Presenters at IEA2018 had the option to submit a written paper to accompany their oral presentation.

These were published by Springer Link in *Proceedings of the 20th Congress of the International Ergonomics Association (IEA 2018) Volume X: Auditory and Vocal Ergonomics, Visual Ergonomics, Psychophysiology in Ergonomics, Ergonomics in Advanced Imaging*.

To see a list of the articles and abstracts or to access the volume, please visit:

<https://link.springer.com/book/10.1007/978-3-319-96059-3>

NEXT NEWSLETTER DEADLINE: 30th March 2019

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