

**IEA NewsBriefs: June 2023**

Dear IEA Community

In this edition of the IEA NewsBriefs Spotlight on IEA Societies feature we get acquainted with the IEA Congress 2024 hosts, the Ergonomics Society of Korea. ESK has a 41-year track record of contributing to the development of HFE in Korea and has shared a variety of engaging ways in which they serve their HFE community. We also provide details about the next future of work webinar which will focus on artificial intelligence (AI)-human teaming in the working world. Please continue to forward us information about HFE events, developments, and IEA society activities so that we can share it with the global IEA community. Contact the IEA NewsBriefs editor ([sma.ngcamu@gmail.com](mailto:sma.ngcamu@gmail.com)) if you would like to contribute to future editions of this newsletter.

**ANNOUNCEMENTS****Bereavement announcement: Professor Martin Helander**

It is with great sadness that the IEA announces the passing of IEA past President (1994-1997) and a stalwart in the HFE community, Professor Martin Helander. Professor Helander's work and contributions to the IEA and the development of the HFE profession are a living legacy that we continue to draw from. A tribute written in memory of Professor Helander's life, which he lived in service to others and dedicated to "advancing the field of HF/E, leaving an indelible mark on countless lives and shaping the future of human-centered design" can be found here: <http://iea.cc/wp-content/uploads/2014/10/Martin-Helander.pdf> As the IEA, we send our deepest condolences to his family, friends, and colleagues around the world.

**UPCOMING EVENTS****Webinar: HFE perspectives on Human-Artificial Intelligence teaming and the future of work: 20 July 2023, 15.00 CET**

One of the benefits that have been cited for integrating Artificial Intelligence (AI) into the world of work is that it can enhance human and system performance. However, there are questions about how best to match AI to humans to harness such benefits. This webinar, which forms part of the Future of Work webinar series, Mica Endsley will explore Human-AI teaming and will also discuss how AI may affect the future of work. Register here to attend this free webinar: [https://us02web.zoom.us/webinar/register/WN\\_w\\_exnf4RXqKM4qU9V2IOq](https://us02web.zoom.us/webinar/register/WN_w_exnf4RXqKM4qU9V2IOq)

**PAST EVENTS****IEEE International Conference on Advanced Robotics and Its Social Impacts**

The 19th IEEE International Conference on Advanced Robotics and Its Social Impacts (ARSO 2023) took place from 5 to 7 June 2023 at the Federal Institute for Occupational Safety and Health (BAuA) in Berlin, Germany. For three days, participants from all over the world were introduced to the latest developments in robotics and offered a

multifaceted programme that provided both information exchange and networking opportunities.

ARSO 2023 was an event endorsed by the International Ergonomics Association (IEA). The ARSO topics are closely related to the activities of the IEA Technical Committee on Human Factors in Robotics and the current chair of the TC also this year's ARSO General Chair. The conference aimed to promote exchange between IEA and IEEE experts in the important field of human-centred robotic systems. In addition to the invited speakers, nearly 30 experts presented their scientific findings from various areas of robotics. The presentations were based on peer-reviewed papers, all of which will be published soon. More information on the conference can be found here: <https://ieee-arso.org>

## SPOTLIGHT ON IEA SOCIETIES

In this edition of the IEA NewsBriefs, we are pleased to be able to feature the Ergonomics Society of Korea (ESK), the host of the 2024 IEA Congress which will be in Jeju. The Ergonomics Society of Korea is a well-established IEA society that has been actively contributing to the development of HFE in Korea for over forty years! We extend our gratitude to ESK for sharing insights about their society with the IEA community and thank them for the work they are already doing to organise the much anticipated IEA Congress.

We are interested in learning about other IEA Societies that have not yet had an opportunity to be featured in the NewsBriefs. If your society would also like to be featured in the Spotlight on IEA societies feature, please email the IEA NewsBriefs editor ([sma.ngcamu@gmail.com](mailto:sma.ngcamu@gmail.com)).

## ERGONOMICS SOCIETY OF KOREA (ESK)

### ESK Fact sheet

- **Established:** 27 March 1982
- **Approximate number of members:** 700 regular members, 300 associated members (predominantly undergraduate and graduate students), and 7 corporates/organizations (sustaining membership).
- **Website:** <https://esk.or.kr/>

The Ergonomics Society of Korea was formed in 1982 and became a federated society of the IEA in 1990. In South Korea, numerous companies actively implement HFE principles in the development of their products. These products span various industries, including electronic consumer products, automobiles, furniture, software, and apps. Prominent companies such as Samsung, LG, Hyundai/KIA, Naver, and Daum employ a significant number of HFE professionals who work as UI/UX and product designers.

Safety and Health is another major domain of HFE application in Korea. Many HFE professionals serve as health managers within companies, actively involved in preventing musculoskeletal disorders (MSDs). Korean companies are required to conduct risk assessments to identify the risks of MSDs and are encouraged to implement appropriate

measures to decrease the likelihood of MSD development. In Korea, there is a system for the certification of HFE professionals which is administered by a government agency. Numerous ESK members have been certified as HFE professionals and are major contributors to the management of HFE risks in industry.

HFE is also widely spread in various governmental or research organizations, including KOSHA, the government agency responsible for safety and health, and KATS, which operates Size Korea projects and the anthropometry database. HFE finds active application in areas such as nuclear safety, agricultural safety, aviation safety, rehabilitation, universal design, and clothing design. Numerous ESK members actively contribute to these areas.

Approximately fifty (50) universities offer HFE education programs in Korea. These are primarily housed within industrial engineering or safety engineering departments, while some programs are based on industrial design, interdisciplinary convergence of IT, industrial health, and other cognate disciplines. Professors, researchers, and graduate students in these universities constitute a significant portion of ESK's membership.

### **Overview of ESK activities**

ESK holds two domestic conferences each year, one in spring and the other in autumn. About 400-500 people participate in each conference. At the conferences, various awards are presented to conference participants, including the Dr. Eui S. Jung award for the best student paper, outstanding posters, creative ergonomic capstone designs by undergraduate students, ESK ergonomic design awards, and best practices in industrial ergonomics. The fall ESK conference of 2023 will be held from 15-18 November at Juju International Conference Center (JEJU ICC).

The Journal of ESK, which serves as the official publication of ESK, is released every two months. The journal follows an open-access model, allowing anyone to access articles at <https://jesk.or.kr>. The Journal of ESK also permits authors to submit HFE articles in English. While most papers are written in Korean, all abstracts and tables are presented in English.

On an annual basis, ESK also hosts the 'Ergonomic Design Awards' to recognize well-designed products from an ergonomic standpoint. Approximately 10 to 20 products, either recommended by our members or submitted by companies, undergo review by HFE professionals. The best products are then selected for the prestigious Grand Prix of EDA. These award-winning products are usually showcased during the conference of the year. Additionally, ESK facilitates the "HFE Best Practice Awards" to promote practical improvements in the industry in terms of safety and health as well as productivity.

To foster international relationships in HFE, ESK and the Japanese HFE Society (JES) have been holding joint symposia alternately every year. The 2023 edition is going to be hosted by JES. ESK is also a council member of the Asian Council of Ergonomics and Design (ACED) and members of ESK attend the Asian Conference of Ergonomics and Design every three years. ACED will be held in India this year.

### **Upcoming ESK events**

ESK will host the IEA Congress 2024 in Jeju, a beautiful island in the southern part of the Korean Peninsula, similar in size to Oahu, Hawaii. Detailed information about the congress and Jeju can be found at <http://iea2024.com>. The organizing committee, in collaboration with ESK, is dedicated to ensuring the success of the event. We encourage the HFE global community to attend the conference and to meet HFE professionals from around the world while enjoying the tranquil beauty of the island. This promises to be a truly exciting, engaging, and well-organised conference, as was the 2023 IEA Congress that was successfully hosted by ESK in Seoul in 2003.

### **ESK Membership**

ESK has various membership types that cater to students, academics, practitioners, and organisations. Please visit the ESK website to find out more about the registration requirements here: [https://esk.or.kr/aboutSociety/join\\_guide.asp](https://esk.or.kr/aboutSociety/join_guide.asp)

### **IEA LINKS OF INTEREST**

Archive of previous IEA NewsBriefs: <https://iea.cc/iea-newsbriefs-archive-of-past-issues/>

More news from IEA: <https://iea.cc/category/headlines/>

IEA Press publications: <https://iea.cc/publication/>

IEA YouTube channel (includes recorded IEA webinars):  
<https://www.youtube.com/channel/UCDnjCjRcYB7rBR2PJFw6k6w>

IEA LinkedIn page: <https://www.linkedin.com/groups/1114517/>

IEA Facebook page: <https://www.facebook.com/InternationalErgonomicsAssociation>