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## Join our Webinars!

You can expect webinars held regularly in 2023. The first is coming up on Wednesday January 17 and is jointly organized with ENBIS (European Network for Business and Industrial Statistics). Join us by registering for free on <https://conferences.enbis.org/event/36/>



ENBIS & ISEA present a joint webinar on



**Escalator Health Condition and Remaining Useful Life Modeling**



**Inez Zwetsloot**  
City University of Hong Kong

**18th January 2023, at 12:00-13:00 CET**

**Register for free**  
[conferences.enbis.org/  
event/36/](https://conferences.enbis.org/event/36/)

**Abstract**  
The objective of this project is to develop a comprehensive health condition model for escalators to support the refurbishment decision. The analytic model consists of four parts: 1) online data gathering and processing; 2) condition monitoring; 3) a health index model; and 4) a remaining useful life model. The results can be used for 1) predicting the remaining useful life of the escalators, in order to support asset replacement planning and 2) monitoring the real-time condition of escalators; including signaling when vibration exceeds the threshold and signal diagnosis, giving an indication of possible root cause (components) of the signal. To develop the model the following data sources are utilized and combined: real-time vibration signals from eight sensors, continuous energy usage, as well as fault and maintenance history.

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## Website Revitalization

As ISEA continues to grow, it's important that we maintain a professional, informative, and functional website. In 2023, we plan on revitalizing the website to make it easier to navigate, comprehend, and more helpfully provide information and resources on Statistical Engineering. It will also remain up-to-date with announcements and information about upcoming events. If you have any ideas concerning the website, we would love to hear your feedback for improvement!

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## Updating the Handbook

Our handbook is the main document on Statistical Engineering and it was first published in 2021. In 2023, we are embarking on a revision of the handbook and production of a second edition. Stay tuned for updates on progress.

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## 2023 Conferences

ISEA is organizing sessions in several prominent statistics conferences throughout the year. We have confirmed sessions at the Joint Statistical Meetings (JSM) in the Summer, the ENBIS Conference in the Fall and several other conference sessions are still being planned. Updates as they arise will be communicated on our [website](#), in these newsletters, and on our [LinkedIn](#) page.

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## Volunteers needed – help us grow ISEA!

Are you a fan of Statistical Engineering and do you have a few hours to spare this year? Then please join us as a committee member. We have vacancies on several committees (website, webinar, conferences, and more) and we're looking to fill these roles with interested ISEA members. Please reach out to Nathaniel Stevens at [nstevens@uwaterloo.ca](mailto:nstevens@uwaterloo.ca). We would love your help even if it is just for a few hours.

