



ESRA: esrehomepage.eu
ESREL2021: esrel2021.org



université
angers

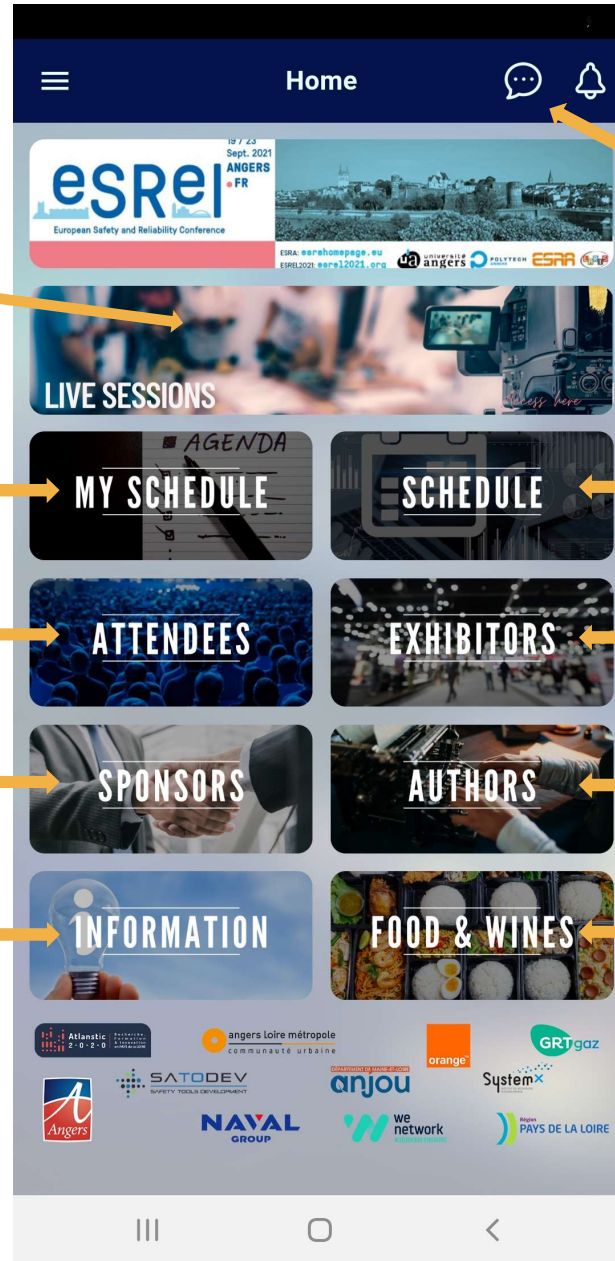


POLYTECH
ANGERS



ESREL 2021 APP Tutorial

App's functionalities



Live sessions

Access to the streaming of all the sessions

Personal Schedule

Find here your personalized schedule with your sessions and all the information about them.

Attendees

Find all the attendees here. You can use the search bar to look for someone in particular. Click on the profile to send a one-to-one message.

Sponsors

Find all the information on sponsors, videos...

Information

Find all the information regarding the location, your venue and the various services.

News Feed

Reach out to your audience, share your memories, and interact with the participants on social media.

Ask a Question

You can ask question during sessions to the attendees

Agenda

Find here the different timetables and access the descriptions of each session with the speaker's information.

Exhibitors

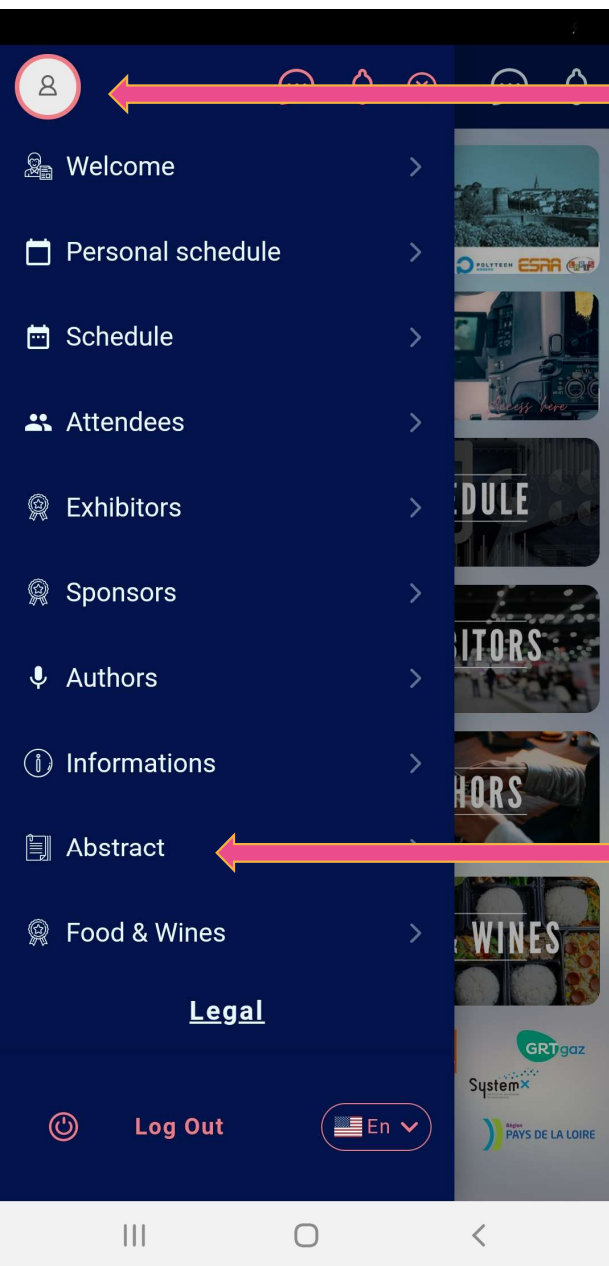
Find all the information on exhibitors, videos...

Authors

Find here the different speakers, their description and all the sessions they will be involved in.

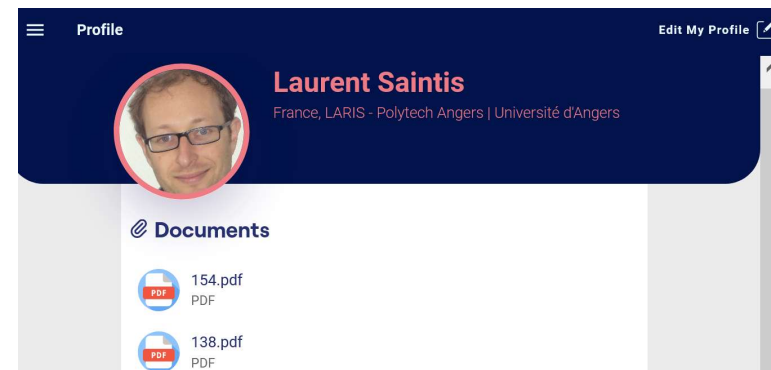
Food & Wines

Menu, wines, recipe of the day...



Profile

Your profile with the associated paper
You can edit your profile on the right corner



left menu bar

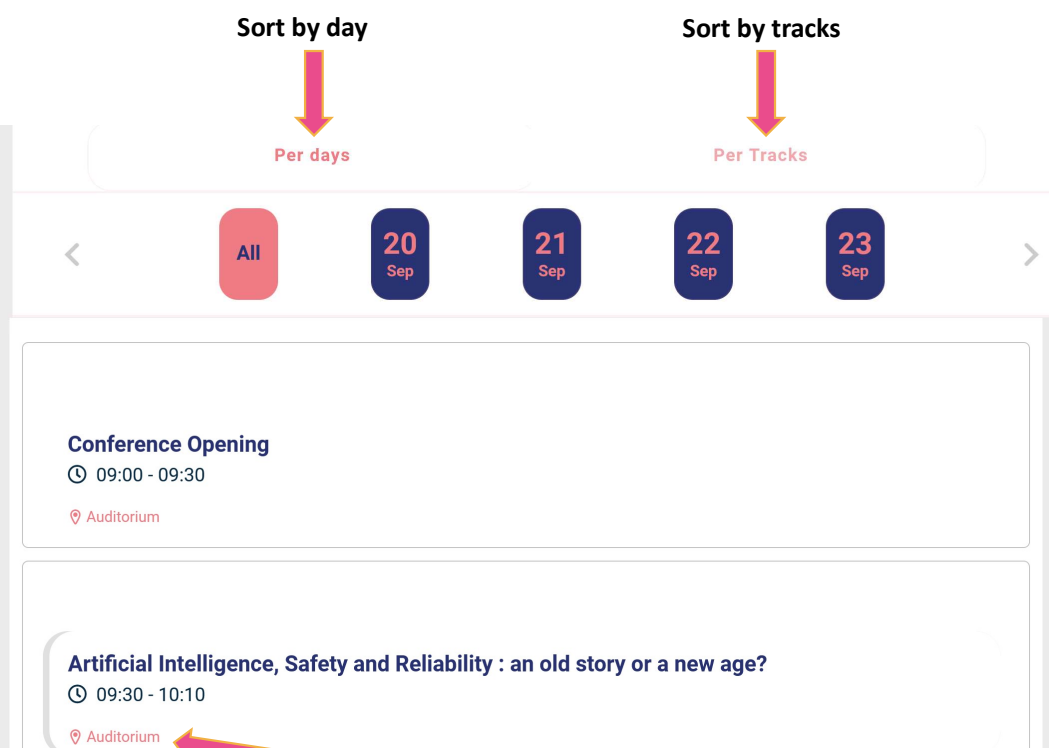
Abstract

Find all the abstracts, pdf and
attendees linked with the paper

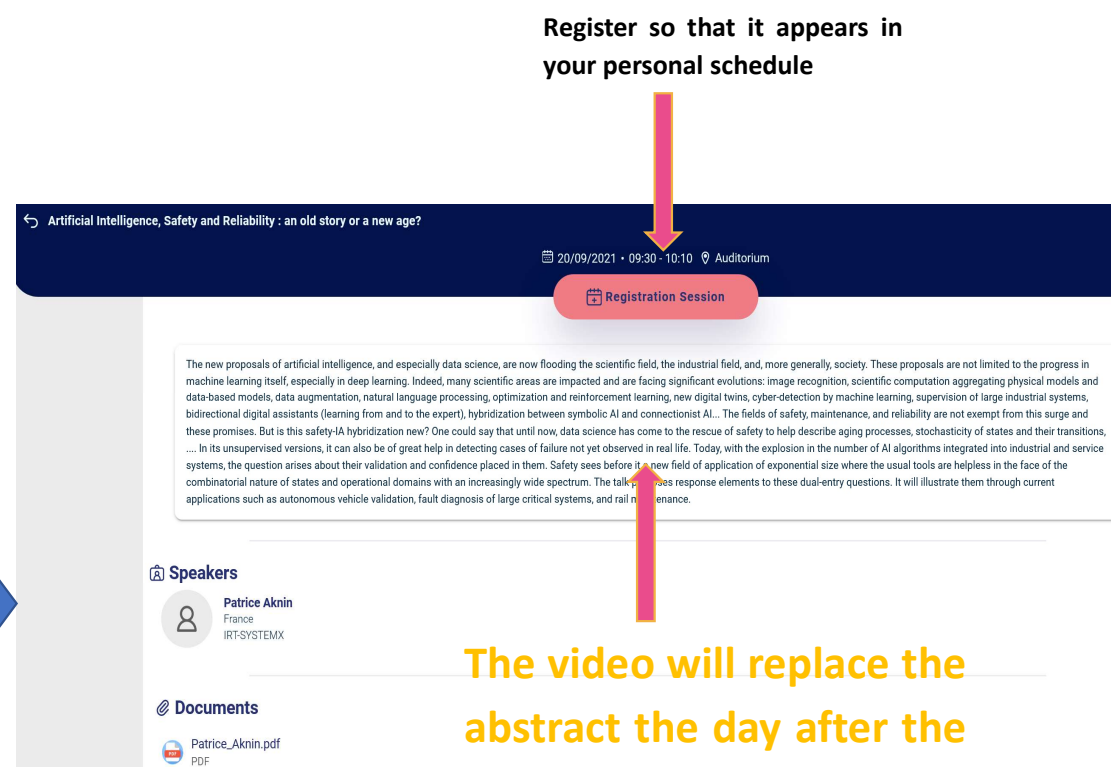


Agenda

Find here the different timetables and access the descriptions of each session with the speaker's information.



Room of the session



The video will replace the abstract the day after the live session



Personal Schedule

Find here your personalized schedule with your sessions and all the information about them.

 Personal schedule

All

20 Sep

20/09/2021

Artificial Intelligence, Safety and Reliability : an old story or a new age?

09:30 - 10:10

 Auditorium



Live sessions

Access to the streaming of all the sessions

← Live Sessions

AMPHI JARDIN
Access Live

DEDICATED ROOM FOR PANEL SESSIONS II & VI AND PARALLEL SESSIONS E

ATRIUM 1
Access Live

DEDICATED ROOM FOR PARALLEL SESSIONS K

ATRIUM 2
Access Live

DEDICATED ROOM FOR PARALLEL SESSIONS B

ATRIUM 3
Access Live

DEDICATED ROOM FOR PARALLEL SESSIONS G

AUDITORIUM
Access Live

DEDICATED ROOM FOR PLenary SESSIONS, PANEL SESSIONS I & V AND PARALLEL SESSIONS A

BOTANIQUE 2
Access Live

DEDICATED ROOM FOR PARALLEL SESSIONS J

COINTREAU
Access Live

DEDICATED ROOM FOR PARALLEL SESSIONS H

ESPACE GRAND ANGLE
Access Live

DEDICATED ROOM FOR PARALLEL SESSIONS F

ESPACE GRAND ANGLE 2
Access Live

DEDICATED ROOM FOR PANEL SESSIONS III & VII AND PARALLEL SESSIONS C

GIFFARD
Access Live

DEDICATED ROOM FOR PARALLEL SESSIONS I

PANORAMIQUE
Access Live

DEDICATED ROOM FOR PANEL SESSIONS IV & VIII AND PARALLEL SESSIONS D

Choose the room of the session you want to attend



Live sessions

Access to the streaming of all the sessions

← Auditorium


20/09/2021 • 09:00 - Auditorium

Live streaming of sessions

See current asked questions and approve them


Ask a question and submit

ASK A QUESTION



Laurent Saint
Question 1

0

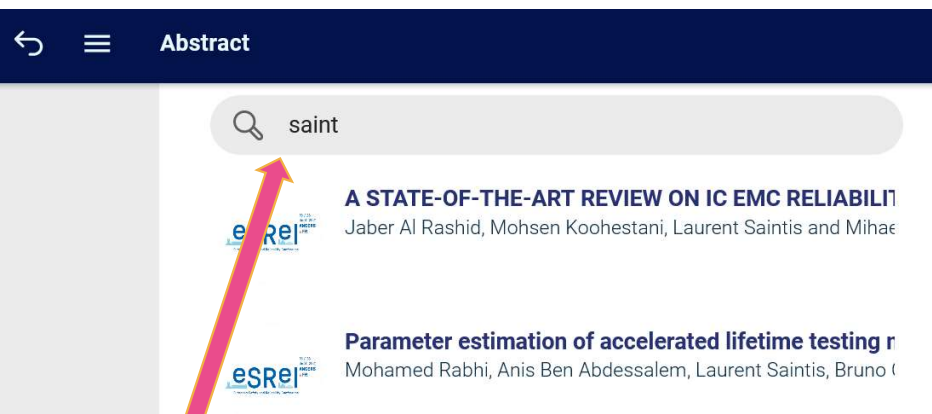


...

Submit

Abstract

Find all the abstracts, pdf and attendees linked with the paper



search bar
Find an abstract by title, authors...

Document
pdf of paper

Abstract
Find all the attendees linked with the paper

Abstract



Parameter estimation of accelerated lifetime testing models using an efficient...

Mohamed Rabhi, Anis Ben Abdessalem, Laurent...

Accelerated lifetime testing (ALT) is a common way to estimate the reliability under use stresses through the extrapolation of the failure data collected from severe stress levels. The task of estimating the model parameters from experimental observations is of paramount importance to make good predictions. In this context, the ALT models parameters estimation has been approached in the literature with various classical methods. The graphical method is arguably the easiest and the most straightforward, but it presents several shortcomings. The most commonly used method for parameters estimation is the maximum likelihood method (MLE) because it has several desirable properties. However, in some circumstances, the likelihood function is intractable and cannot be formulated even in a closed form or fail to converge mainly when the sample size is small. This is always the case in ALT, because of the high cost of tests and testing time. Furthermore, using root-finding algorithms, the estimated parameters are highly dependent on the initial values and risk the local optima issue. Particularly for the ALT models, which involve numerous parameters, the MLE computation becomes memory consuming. To overcome these issues, the likelihood-free methods called also Approximate Bayesian Computation (ABC) were developed by replacing the evaluation of the MLE in the Bayesian Inference by other features and metrics. Nevertheless, in its basic form, the ABC algorithms still suffer from a low acceptance rate of sampling. To overcome this issue, a new variant of the ABC based on an ellipsoidal Nested Sampling technique (ABC-NS) is employed. It ensures important speed ups and provides a good approximation of the posterior distributions. In this paper, a brief introduction of the ABC-NS method and its algorithmic implementation are given. In the second part, the ABC-NS is applied to infer the ALT models using real data. The obtained results are discussed.

Documents

 138.pdf
PDF

Attendees



Anis Ben Abdessalem
LARIS - Polytech Angers | Université d'Angers



Bruno Castanier
LARIS - Polytech Angers | Université d'Angers



ESRA: esrahomepage.eu
ESREL2021: esrel2021.org



université
angers



POLYTECH
ANGERS



Have fun checking out the
other features!