



## ***ESREL2020PSAM15***

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### **CALL FOR ABSTRACTS**

#### **Special session on**

#### ***Life cycle-based resilience assessment and management of structural and infrastructural assets***

##### **Description**

Public infrastructures are composed of (civil) engineering assets that are critical for different quality of service parameters (e.g. traffic flow, water protection etc.). During their service life, these assets are subject to either progressive deterioration, such as corrosion, or to instantaneous deterioration, such as in case of earthquakes. Intervention activities, such as maintenance and renovations, should be executed ensuring a continuous fulfilment of the infrastructure functional goals and the related quality of service parameters. Optimizing these parameters during the operational phase will reduce the associated economical and societal impacts as well as increase the infrastructure resilience.

##### **Motivation**

Life cycle management of infrastructure contributes significantly to the infrastructure resilience. Resilience is often seen and tackled from a hazard-approach perspective. Much effort has been previously made to compute resilience given non-frequent disturbing events (e.g. earthquakes), while ignoring the everyday smaller but more frequent events (e.g. deterioration).

##### **Objective**

- 1- Encourage broadening the infrastructure resilience definition to account for the life-cycle management of infrastructure, which includes but is not limited to maintenance and replacements;
- 2- Fostering research on resilient civil infrastructure asset management;
- 3- Creating an opportunity for experts in the infrastructure resilience and infrastructure maintenance fields to meet and exchange expertise and collaborate.
- 4- Broadening the existing infrastructure resilience concept and computation.

**Please submit your abstract by November 10, 2019**

Please submit your abstract through the conference website, [www.esrel2020-psam15.org/authors.html](http://www.esrel2020-psam15.org/authors.html). In step 1 of the submission procedure, select “**Life cycle-based resilience assessment and management of structural and infrastructural assets**” as conference track. Also, please send a copy of the abstract by email to the special session organizers.

##### **Organizers**

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