



RILEM International  
Conference on

# Numerical Modeling Strategies for Sustainable Concrete Structures

July 4-6, 2022  
Marseille, France



**Chairmen**

**Pierre Rossi and Jean-Louis Tailhan**



Cement is the main constituent of concrete, the most widely used building material today and which will continue to be in the years to come. Its production generates CO2 emissions. It is, thus, of primary importance to optimize the utilization of cement in concrete constructions while checking that these constructions have a lifespan compatible with the stakes of sustainable development. It is essential to take up the challenge and use adapted tools of quantification, making it possible to rigorously and reliably justify the adopted strategic and technical choices.

Numerical methods (finite elements, finite volumes, finite differences) constitute a relevant response to this challenge. They make it possible to optimize concrete constructions because they can consider complexities linked to the rheological, physicochemical, mechanical properties of concrete, the geometry of structures or even environmental boundary conditions. This optimization must also respect constraints of time, money, safety, energy, CO2 emissions, and, more generally, life cycle, in a way more reliable than the codes and analytical approaches currently used.

After Aix-en-Provence (France, 2012), Rio de Janeiro (Brazil, 2015) and Lecco (Italy, 2019), **the next RILEM international Conference SSCS will take place in the city of Marseille (France) from July 4 to 6, 2022.**

The main objective of this conference is to promote the use of numerical models in the fields of Construction and Civil Engineering and stimulate a scientific and technical community around this theme.

Only papers dealing strictly with the subject of the conference will be accepted.

The conference will take place over three days in one session to promote exchanges.

Each morning of each day will be devoted to invited presentations in a plenary session, and the afternoons will be devoted to submitted papers. This organization has been chosen to privilege the quality of scientific and technical discussions.



## Registration Fees

Conference registration fees include admission to all scientific programs, proceedings, opening reception, coffee breaks, lunches and conference banquet.

	Before April 1 <sup>st</sup> , 2022	After April 1 <sup>st</sup> , 2022
Registration fee	<b>560 Euros</b>	<b>660 Euros</b>
RILEM, AFGC and AUGC members	<b>460 Euros</b>	<b>560 Euros</b>
Students	<b>360 Euros</b>	<b>400 Euros</b>

## Key dates and deadlines

Abstract submission	<b>14/November/2021</b>
Abstract acceptance	<b>30/November /2021</b>
Final Abstract acceptance	<b>14/December /2021</b>
Manuscript submission	<b>30/January/2022</b>
Manuscript acceptance	<b>01/March/2022</b>
Reviewed manuscript	<b>01/April/2022</b>
Conference at Marseille	<b>04-06/July/2022</b>

## Contact

**Organizers:** [sscs2022@sciencesconf.org](mailto:sscs2022@sciencesconf.org)

**Secretary:** [afgc@afgc.asso.fr](mailto:afgc@afgc.asso.fr)

## Website

<https://sscs2022.sciencesconf.org>