

Some numerical investigations in building engineering

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Abstract

The LOCIE¹ lab (University of Savoie, France), works on the energy aspects and their integration in buildings and their environment.

The talk will present some of its research topics, focusing on the modelisation and numerical aspects and their applications in engineering sciences.

The work developed currently at the SISEA lab will also be presented.

About the speaker

I am currently assistant professor at the laboratory LOCIE

I have a background in both Mathematics and fundamental Physics. My PhD work is focused on the development of geometric numerical integrators and their applications to Fluid Mechanics (2005-2008). During several post-doctoral positions (2008-2011), I had the opportunity to work on various numerical topics as multi-grid schemes, domain decomposition, boundary integral methods...

My main application interest is now devoted to heat and mass transfers as they occur in falling film absorption or in building environment.

¹Laboratory: Optimisation of the Conception and Environmental Engineering