

Colloquium d'Informatique de Sorbonne Université


Roberto Di Cosmo

INRIA

Université Paris Cité

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Towards a new era for software science with Software Heritage

 **18h00**
Précédé par un
cocktail à 17h15

 **Amphi 15**
Sorbonne Université - Faculté des Sciences
Campus Pierre et Marie Curie
4, place Jussieu, 75005 Paris

 **English**

Abstract

Open Source is at the heart of our digital society. It speeds up innovation, but also raises key challenges about the quality, evolution and security of the many components that are put together in modern software systems. In this talk we will present an update on Software Heritage, a groundbreaking non profit initiative, launched by Inria in 2016 in partnership with UNESCO, to collect, preserve and share all publicly available software in source code form. Software Heritage has already built the largest public archive, with more than 24 billion files from more than 375 million software origins. After ten years of work, we show concrete examples of how this is much more than an archive: it is the very large telescope that we need to explore the galaxy of software development at a global scale.

Bio

Roberto Di Cosmo is Professor of Computer Science at Université Paris Cité, currently on leave at Inria, where he directs Software Heritage, a non-profit international initiative developed in partnership with UNESCO to build the universal archive of software source code. His research spans programming languages and formal methods, including functional programming, type systems, rewriting, and the semantics of programming languages, as well as the analysis of large-scale software ecosystems. A long-standing advocate of Free Software and Open Science, he founded key initiatives structuring the field in Europe, including the Free Software thematic group of Systematic (2007) and IRILL (2010), dedicated to the quality of free and open-source software. He also serves as President of the Board of IMDEA Software Institute and chairs the Software chapter of the French National Committee for Open Science.



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