Abstract Interpretation and Program Transformation: techniques running after each other
(Invited Talk)

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It is well known that Program Transformations can be seen as a special kind of abstract interpretation, where the abstraction is applied to syntactic values and program semantics is preserved (Cousot 2002). On the other side, program transformations are heavily used within abstract interpreters, for improving either accuracy or efficiency of the analysis (Namjoshi 2018), as well as for leveraging the analyser on different source code languages (Ferrara 2020). Combining these contributions, we will discuss a systematic view of the possible interactions between these static program manipulation techniques.