"Why compilers have failed and what we can do about it"

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Abstract: Automatic parallelization of sequential programs by restructuring compilation is an attractive approach for solving the parallel programming problem, if it can be made to work. Unfortunately, this approach has not succeeded in spite of a lot of effort by the programming languages community. In this talk, I will discuss my views of what compilers have and have not been able to do, and what the place of compilers should be in the parallel programming landscape.