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Compiler technology: are we done yet?

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David Padua is a Donald Biggar Willett Professor of Computer Science at the University of Illinois where he has been a faculty member since 1985. He received a BS degree in Computer Science from the Central University of Venezuela in 1972 and a PhD, also in Computer Science, from the University of Illinois in 1980. From 1981 to 1985 he was an Associate Professor at the Simón Bolívar University. Padua has done research in programming languages, compilers and parallel programming and has published more than 170 articles in those areas. His research focuses on program analysis, transformation, and optimization strategies.

This talk will be a short discussion of the status of compiler technology after 60 years of work in this area. Although the achievements of these decades are impressive there is still much room for improvement and ample opportunities for research, especially in program optimization and machine independence.



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