University at Buffalo
The State University of New York

Department of Computer Science and Engineering

Distinguished Speakers Series Presents

Bernard Chazelle
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Standing at the Dawn of the Algorithmic Age

Moore's Law holds that, every eighteen months, computing power doubles. Most of the wonders of the computer age can be attributed to Moore's Law. Alas, its days are numbered. What then? In this talk I will argue that the years ahead will usher in the era of the "Algorithm," a notion that, if all goes well, will prove even more disruptive and revolutionary than quantum mechanics was in the 20th century.

Bio: Dr. Bernard Chazelle is a Professor of Computer Science at the Princeton University. He received his BS and MS degrees (in Applied Mathematics) from ENSMP, Paris, and his PhD in Computer Science from Yale University in 1980. He is a Fellow of American Academy of Arts and Sciences, World Innovation Foundation, Association for Computing Machinery, Guggenheim, and a member of European Academy of Sciences. Dr. Chazelle works in the areas of Algorithms and Computational Geometry. Although he is best known for his invention of the soft heap data structure and the most asymptotically efficient known algorithm for finding minimum spanning trees, most of his work is in computational geometry, where he has found many of the best-known algorithms, such as linear-time triangulation of a simple polygon, as well as many useful complexity results, such as lower bound techniques based on discrepancy theory. He has published extensively in these areas, and is (or was) on the editor boards of more than 10 journals. More information about Dr. Chazelle can be found in his homepage
http://www.cs.princeton.edu/~chazelle/

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This talk is free and open to the public   Refreshments for attendees after the talk in 224 Bell Hall