Three Favorite Results

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Abstract

Being honored as the ACM Athena Lecturer has inspired me to reflect upon the research I've conducted over my career to date. Conventional wisdom says good things come in threes, so I've picked three of my favorite results to cover during the talk. For each one I'll explain the context and motivation, the result itself, and why it ranks as one of my favorites. The three results span foundations, implementation, and user-interface, and they represent three of my favorite research areas: semistructured data, data streams, and uncertain data.

ACM Classification

H.2 Database Management

Keywords

Semistructured data; data streams; uncertain data

BIO

Jennifer Widom is the Fletcher Jones Professor of Computer Science and Electrical Engineering at Stanford University, and the Senior Associate Dean for Faculty and Academic Affairs in Stanford's School of Engineering. She served as chair of the Computer Science Department from 2009-2014. Jennifer received her Bachelor's degree from the Indiana University Jacobs School of Music in 1982 and her Computer Science Ph.D. from Cornell University in 1987. She was a Research Staff Member at the IBM Almaden Research Center before joining the Stanford faculty in 1993. Her research interests span many aspects of nontraditional data management. She is an ACM Fellow and a member of the National Academy of Engineering and the American Academy of Arts & Sciences; she received the ACM SIGMOD Edgar F. Codd Innovations Award in 2007 and was a Guggenheim Fellow in 2000; she has served on a variety of program committees, advisory boards, and editorial boards.

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