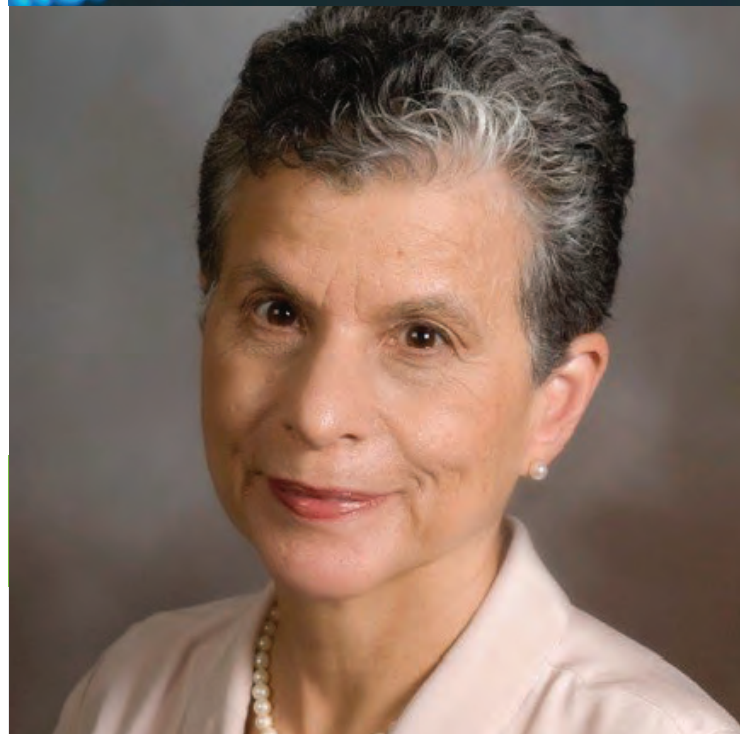


THURSDAY, MARCH 26, 2020



INCREASING GENDER DIVERSITY IN COMPUTER SCIENCE: RECENT EXPERIENCES AT VIRGINIA TECH

Dr. Barbara G. Ryder

emerita faculty member in the department of computer science at Virginia Tech

Dr. Barbara G. Ryder is an emerita faculty member in the Department of Computer Science at Virginia Tech, where she held the J. Byron Maupin Professorship in Engineering. From 2008-2015 she served as Head of the Department of Computer Science at Virginia Tech, and retired on September 1, 2016. She is a fellow of the Association for Computing Machinery (ACM) and a nationally recognized leader in computer science.

Dr. Ryder's research interests on static and dynamic program analyses for object-oriented systems, focus on usage in practical software tools for ensuring the quality and security of industrial-strength applications.

Dr. Ryder received the Virginia AAUW Woman of Achievement Award in 2014. She led the Department of Computer Science team which tied nationally for 2nd place in the 2016 NCWIT NEXT Awards. She is a founding member of the NCWIT VA/DC Aspirations in Computing Awards, having co-chaired these awards in 2012-13 and 2014-15 and having served on the organizing committee since 2011. She also was an executive champion for CS at VT in the NCWIT Pacesetters (2009-2015).

The Department of Computer Science at Virginia Tech was recognized by a national award from the National Center for Women in IT (NCWIT) in 2016, for “showing most improvement” in the gender diversity of our CS major from 2007 to 2015. For example, the number of female CS majors rose from 5% in 2007 to 18% in 2018 and the percentage of female CS BS graduates from 6% to 16% in the same time period. Data showing this progress, and details of the approach followed will be presented and discussed.

Key to our success was working with NCWIT, a nationwide organization that provided (i) opportunities to collaborate with university and industry partners working towards similar goals, and (ii) social scientists who helped measure progress of activities pursued.

11:00 A.M. | TI AUDITORIUM (ECSS 2.102)

Refreshments will be served at 10:45 a.m. in the lobby.

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