

Stephen Davies

Associate Professor of Computer Science at University of Mary Washington

Fredericksburg, VA, US

Dr. Davies specializes in computer modeling and simulation.

Biography

Is it a human or a Twitter bot? Stephen Davies might be able to help you find out. Associate professor and chair of computer science at the University of Mary Washington, Dr. Davies led a project in which students teamed with scientists to build an application that would determine whether tweets were developed by humans or Twitter bots. Since joining UMW in 2006, Dr. Davies has taught courses in database schema theory, Web application development, computational science, data mining, and object-oriented analysis & design, among other topics. He also has performed pioneering research in the development of Personal Knowledge Bases (PKBs), electronic tools that help users express and persist mental impressions. Tied in with this work was his investigative development of user interfaces to the Semantic Web, which is an extension of the World Wide Web that enables machines to reach automated conclusions about user-generated content. Currently, Dr. Davies works in the field of modeling and simulation, building and analyzing virtual replicas of real-world phenomena in order to understand their emergent complex behavior. Two of his recent projects in this interdisciplinary area involve an agent-based model of racial diversity on college campuses, and an intergenerational simulation of wealth distribution in the United States. He also is developing an ecological simulation of a rare Virginia tidal wetlands plant, to understand the factors that may lead to its being endangered. Dr. Davies' work has appeared in "Communications of the ACM" and "IEEE Computer," the flagship publications of the two premier academic and professional societies in computer science. He has presented at numerous academic conferences, including the International Conference on Database and Expert Systems Applications, the ACM Symposium on Computer Science Education and the International Conference on Semantic Systems.

Industry Expertise

Training and Development, Research, Computer Gaming, Education/Learning

Areas of Expertise

Computer Science, Modeling and Simulation

Education

University of Colorado

Ph.D. Computer Science

University of Colorado

M.S. Graduate Studies

[Please click here to view the full profile.](#)

This profile was created by [Expertfile.](#)