Colloquium d'Informatique de l'UPMC Sorbonne Universités

Toward a Theory of Trust in Networks of Humans and Computers

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A general theory of trust in networks of humans and computers must include theories of both computational of behavioral trust. Behavioral trust captures participant preferences (i.e., risk and betrayal aversion) and beliefs in the trustworthiness of other participants. This would allow us to establish new trust relations where none were possible before. It would help create new economic opportunities by increasing the pool of usable services and removing cooperation barriers among users. It would also help focus security research in areas that promote trust-enhancement infrastructures in human and computer networks. (Joint work with Virgil Gligor.)

Jeannette M. Wing is Corporate Vice President, Microsoft Research. At CMU she is President's Professor of Computer Science and twice served as the Head of the Computer Science Department. She was Assistant Director for Computer and Information Science and Engineering at the NSF for three years.

She received her Ph.D. from MIT in 1983. Her research interests include trustworthy computing, specification and verification, concurrent and distributed systems, programming languages, and software engineering. She is a Fellow of the American Academy of Arts and Sciences, American Association for the Advancement of Science, the Association for Computing Machinery (ACM), and the Institute of Electrical and Electronic Engineers (IEEE).

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