Candidate for Vice President
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Elisa Bertino
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BIOGRAPHY

Elisa Bertino is a professor of Computer Science at Purdue University. She has made pioneering contributions over 30 years to data management and data security theory and systems, along with contributions to broadening participation in computing via professional leadership and mentoring. Her contributions to data security and privacy include context-based access control, data integrity, privacy-preserving analytics, and data protection from insider threats. Her recent work focuses on security of cellular networks and IoT systems.

Prior to joining Purdue, she was a professor and department head at the Department of Computer Science of the University of Milan (Italy). She has been a postdoc at the IBM Research Laboratory (now Almaden) in San Jose, and a visiting professor at Singapore Management University and Singapore National University.

She has served as editor in chief of the IEEE Transactions on Dependable and Secure Computing, and coordinating co-editor in chief of the Very Large Database Systems (VLDB) Journal. She served as Chair of the ACM Special Interest Group on Security, Audit and Control (SIGSAC) for the period 2009-2013. She is a co-founder of the ACM Conference on Data and Application Security and Privacy (ACM CODASPY). The conference started in 2011 and is the main forum for high-quality research on data privacy and security.

Elisa Bertino is a Fellow member of ACM, IEEE, and AAAS. She received the 2019-2020 ACM Athena Lecturer Award and has been named to GSMA's Mobile Security Research Hall of Fame for her work on 4G and 5G cellular network security. She received the 2014 ACM SIGSAC Outstanding Contributions Award "For her seminal research contributions and outstanding

leadership to Data Security and Privacy for the past 25 years", the 2002 IEEE Computer Society Technical Achievement Award "For outstanding contributions to database systems and database security and advanced data management systems" and the 2005 IEEE Computer Society Tsutomu Kanai Award for "Pioneering and innovative research contributions to secure distributed systems".

STATEMENT

I have been a member of ACM for 40 years, and over the years, ACM has been an increasingly valuable resource for me. I am honored to have been nominated as candidate for Vice President of ACM. I served as chair of the ACM Special Interest Group on Security, Audit and Control (SIGSAC) and as ACM Security/Treasurer. I am currently serving as Vice President. I am proud to serve our community and contribute to the many exciting initiatives undertaken by ACM.

I strongly believe that the field of computer science is today more exciting than ever. We see fundamental advances, such as those made possible by AI, IoT systems, quantum computing, and 5G technologies, and unprecedented opportunities for novel applications. Our technologies have a fundamental role in shaping society and addressing the major challenges humanity faces today.

However, key questions need to be addressed, including AI and data ethics, data transparency, personal privacy versus collective security, and sustainability. Answers to those questions, as well as others posed by the pervasive use of our technologies, must be given by considering a broad multi-disciplinary perspective. If elected, I will work together with the ACM executive committee and the many volunteers and leaders in ACM to make sure that ACM has a central role in fostering discussions and initiatives to answer those questions as well as others posed by society concerning our technologies. I will also focus on important matters, such as broadening diversity in our field, supporting younger researchers, open access to data and publications, role of conferences vs journals, industry engagement, large-scale research infrastructures, and last but not least making sure that ACM is technically and globally relevant by organizing workshops and conferences on new emerging technologies and applications.