edaa
european design and automation association

Press Release

EDAA Achievement Award 2024 goes to Ingrid Verbauwhede

The Achievement Award is given to individuals who made outstanding contributions to state of the art in electronic design, automation and testing of electronic systems in their life. To be eligible, candidates must have made innovative contributions that impacted how electronic systems are being designed.

Past recipients have been Kurt ANTREICH (2003), Hugo DE MAN (2004), Jochen JESS (2005), Robert BRAYTON (2006), Tom W. WILLIAMS (2007), Ernest S. KUH (2008), Jan M. RABAEY (2009), Daniel D. GAJSKI (2010), Melvin A. BREUER (2011), Alberto L. SANGIOVANNI-VINCENTELLI (2012), Peter MARWEDEL (2013), Rolf ERNST (2014), Lothar THIELE (2015), Giovanni DE MICHELI (2016), C. L. David LIU (2017), Mary Jane IRWIN (2018), Jacob ABRAHAM (2019), Luca BENINI (2020), Georges GIELEN (2021), Edward A. LEE (2022), and Jason Cong (2023).

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Dr. Ingrid Verbauwhede is currently a full professor in the research group COSIC at KU Leuven and an adjunct professor at UCLA. She is recognized as a pioneer in hardware security. She is an expert in interdisciplinary research linking design for security with novel technologies and circuits as well as in investigating the requirements of novel cryptographic algorithms on secure hardware and HW/SW co-design. Her ability to cross the gap between cryptographic algorithm and protocol development, and actual implementation in hardware, software, and embedded systems has been widely recognized. In fact, she has made outstanding contributions, resulting in highly cited work, in several key aspects of EDA: electronic design for security, design automation and integration of security in digital EDA design flows, and test for security, with a focus on attacks and countermeasures to resist side-channel and fault attacks. Her work's application covers ASICs, FPGAs, and embedded microcontrollers. She has more than 450 publications in international journals and conferences and, according to Google Scholar, she has more than 30000 citations and an overall H-index of 90.

Professor Verbauwhede holds a master's and PhD degrees from KU Leuven. She started her academic career in 1998 as an associate professor at UCLA. In 2003, she moved to KU Leuven and became a full professor in 2007. She held a visiting post-doctoral researcher and lecturer position at UC Berkeley and a research assistant position at IMEC. Besides academia, she has worked in different companies in Silicon Valley.

Prof. Verbauwhede is a recipient of an IEEE Computer Society Technical Achievement Award (2017). She also received the IEEE 2023 Don Pederson Award of the Solid State Circuit Society,

and is a two times ERC advanced grant winner (2021, 2016), a fellow of IEEE (2013), a fellow of IACR (2021), and a Member of the Royal Flemish Academy KVAB, (2011). She has given many invited presentations and tutorials. In particular, she recently gave the keynote at the ACM CCS 2019 and the 2022 IACR Distinguished Lecture at EUROCRYPT 2022.

Prof. Verbauwhede's work has consistently fostered the EDA and testing community development in Europe. She published 25 papers at the DATE conference between 2004 and 2023, was the program chair of DATE 2022, and introduced the topic of security at DATE. Security is now one of the fields that attracts the most attention at DATE. Her most cited work is a DATE paper and is in the top 10 of most cited DATE papers ever.

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EDAA is a non-profit association. Its purpose is to operate for educational, scientific and technical purposes for the benefit of the international electronics design and design automation community. The Association, in the field of design and design automation of electronic circuits and systems, promotes a series of high-quality technical international conferences and workshops across Europe and cooperates actively to maintain harmonious relationships with other national and international technical societies and groups promoting the purpose of the Association. EDAA is the main sponsor of DATE, the premier Design, Automation and Test Conference and Exhibition in Europe.