Ahmed Shalaby

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Short Bio

Dr. Ahmed Shalaby is an Associate Professor in the Computer Science Department at Benha University and an Adjunct Professor at Alamein International University. He earned his B.S. and M.S. degrees in Electrical Engineering from Alexandria University and his Ph.D. from Egypt-Japan University of Science and Technology (E-JUST). His professional experience includes roles at Mentor Graphics and Intel Mobile Communications, as well as research fellowships at E-JUST and the National University of Singapore. Dr. Shalaby has developed and taught courses in Embedded Systems and has published over 60 research papers in areas such as hardware security, low-power circuit design, and high-performance VLSI circuits. Additionally, he has been an active member of the IEEE Alexandria Student Branch and IEEE Young Professionals, contributing to various educational programs and events.

Introduction

Dr. Ahmed Shalaby is an Associate Professor in the Computer Science Department at Benha University and an Adjunct Professor in the Computer Science Department at Alamein International University. He obtained his B.S. and M.S. degrees in Electrical Engineering from Alexandria University, Egypt, in 2005 and 2010, respectively. During his master's studies, he joined the Questa Team at Mentor Graphics in 2007 and later worked at Intel Mobile Communications as a PHY layer Digital/DSP Engineer from 2008 to 2010.

In 2013, he earned his Ph.D. from Egypt-Japan University of Science and Technology (E-JUST). During his Ph.D. studies, he completed an internship at the National Institute of Informatics (NII) in Tokyo, Japan, from October 2012 to April 2013. He continued his research at E-JUST as a research fellow until October 2016. After that, he moved to the Computer Science Department at the Faculty of Computers and Informatics, Benha University, as an Assistant Professor until May 2019. He then moved to the National University of Singapore as a research fellow in the Computer Science Department from June 2019 to November 2021.

Throughout his academic career, he has demonstrated a commitment to excellence in teaching. He has successfully developed and delivered courses related to Embedded Systems, including Logic Design, Computer Architecture, Embedded Systems, Internet of Things, Digital Signal Processing, and Computer Networks.

In the realm of research, his work has been published in reputable journals and conferences. He has over 60 publications, and his research interests encompass hardware security, on-chip interconnect architectures, low-power circuit design, high-performance implementations for video coding standards, and related circuit-level issues in high-performance VLSI circuits.

On the volunteering front, he has been an active member of the IEEE Alexandria Student Branch (AlexSB) and IEEE Young Professionals (YP) since 2002. Over the years, he has participated in various teams and committees at the Egypt Section level, contributing to programs and events organized for YP Egypt Affinity and AlexSB. He has been awarded the IEEE Region 8 Young Professionals Exceptional Volunteer in 2016.