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Roel is listed as inventor on 5 patents, has co-authored over 30 papers in high-ranking international security venues and has published a book on the topic of PUFs. He has served on the editorial boards of the IACR Transactions of Cryptographic Hardware and Embedded Systems (TCHES) and the Journal of Cryptographic Engineering (JCEN) and is a recurring program committee member at scientific venues such as DATE (EDAA) and CARDIS.

Roel holds a MEE (2007) and PhD (2012) degree from University of Leuven (Belgium).