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Sommario/riassunto	<p>It is our great pleasure to welcome you to the Fourth Workshop on Attacks and Solutions in Hardware Security 2020 (ASHES 2020), a post-conference satellite workshop of the ACM Conference on Computer and Communications Security 2020 (CCS 2020). For the first time, ASHES was held completely virtual. ASHES deals with all aspects of hardware security, and welcomes any contributions to this area. Besides being a forum for mainstream hardware security research, its mission is to specifically foster new concepts, solutions, and methodological approaches, and to promote new application scenarios. This includes, for example, new attack vectors on secure hardware, the merger of nanotechnology and hardware security, novel designs and materials, lightweight security hardware, and physical unclonable functions (PUFs) on the methodological side, as well as the internet of things, automotive security, smart homes, supply chain security, pervasive and wearable computing on the applications side. ASHES thereby aims at giving researchers and practitioners a unique opportunity to share their perspectives with others on various emerging aspects of hardware security research.</p>