Preface

This book contains the contributions which were selected for publication at the third edition of the Distributed Ledger Technology Workshop (DLT 2020), which has been held in conjunction with ITASEC20 at Ancona, on February 4, 2020. This event follows the first two editions of the workshop held at Perugia in 2018 and at Pisa in 2019, respectively, and represents the annual meeting of the Italian DLT group.

The last years have witnessed an impressive and increasing interest around Distributed Ledger Technology. A huge number of application fields, including finance, academics, IoT, industries, just to mention some of the most popular ones, are experiencing the advantages of reliable and unalterable information storage and exchange without any trusted third party. Despite this, several issues are still open and deserve discussion in the scientific and professional community. Among them, a prominent role is played by privacy and security. While some security properties (e.g., countering double spending in cryptocurrencies) have been extensively studied, other aspects need to be deepened, ranging from software security to scalability, dependability, up to new challenges, like post-quantum blockchains. Similarly for privacy, where the DLT paradigm also has to coexist with current regulations.

The DLT workshops are meant as a forum for researchers, developers, and users to discuss issues related to Distributed Ledger Technology and its adoption in research and business scenarios. The primary goal is to foster discussion and cross-fertilisation of ideas among experts in different fields related to DLTs, and thus advance the national and international state-of-the-art. Research, applications, case studies, and experiences concerning DLT are debated.

Similarly to the previous editions, the DLT 2020 workshop solicited two kind of contributions: research papers and oral communications. Both types of contribution entailed an oral presentation at the workshop, but only the former ones are reported in this book. In particular, the workshop accepted 9 research papers and 12 oral contributions.

We would like to express our thanks to the authors who submitted their papers to the workshop, and to the members of the Technical Program Committee for their valuable work in evaluating the submitted papers.

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