

Proceedings

CoronaDef 2021

**Innovative Secure IT Technologies
against COVID-19 (CoronaDef)
Workshop**

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Virtual

Hosted by the





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Message from the Program Co-Chairs

It is our great pleasure to welcome you to the CoronaDef Workshop. This workshop is organized to contribute to new and innovative secure technologies against COVID-19. The current worldwide spread of the COVID-19 pandemic confronts human societies with entirely new challenges that have not existed in this form in the digital age. Strategies to combat the spread of the pathogen are therefore largely based on “traditional” measures such as behavioral recommendations, restrictions to free movement of persons, the shutdown of schools, organizations and companies, and the identification and quarantine of infected people based on medical testing. Modern digital technologies provide promising opportunities to complement the above-mentioned measures and increase their effectiveness, e.g., by enabling quarantine measures to target potentially infected people faster and in a more focused manner. Indeed, due to the current quarantine situation, the Internet and its services constitute “the” information gateway for many societies. Digital technologies can aid the vaccination in terms of providing information systems for managing vaccination processes, vaccination passports as well as logistical and tracking services. However, these technologies are faced with a variety of security and privacy challenges which they need to tackle to build trust and acceptance in our societies.

In response to the call for papers of CoronaDef, 10 papers were submitted. Each paper received at least three reviews. The program committee selected seven papers to be presented at the Workshop. These papers cover a different topic, ranging from contact tracing techniques to cybersecurity tools to allow small businesses to assess their online workflows. The workshop includes two expert keynote speakers who provide their view on the security and privacy problems of contact tracing schemes as well as on experiences in supporting FEMA/HHS COVID task force. The workshop closes with an expert panel on various challenges to encounter in fighting the pandemic.

The organization of a workshop requires the collaboration of many individuals. First, we would like to thank the authors for submitting to the Workshop. Second, we thank the program committee members for their efforts in reviewing the papers and providing valuable feedback to authors.

We hope that you will find this program interesting and that the Workshop will provide you with a valuable opportunity to interact with other researchers and practitioners in this field.

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