

KM2022 Conference
Pre-Conference Industry Day
Wednesday, 29 June 2022, University of Maribor,
Faculty of Criminal Justice and Security, Ljubljana, Slovenia
Themes: Knowledge Management, Cybersecurity, Learning, and Information Technology
<https://iiakm.org/conference/>

Invited Talk
Automotive cybersecurity: challenges and (some) solutions

Prof. Dr. Gianluca Dini

Director of the University Centre in Logistics Systems, Dept. of Information Engineering, University of Pisa, Pisa, Italy

Abstract:

Connected cars are part of the Internet of Things (IoT). While digitalization opens to new opportunities and services it also extends the attack surface with respect to a traditional vehicle. The presentation will initially introduce the cybersecurity issue in connected cars. It will present threats, the related risks, and real attacks. In the second part, the presentation will focus on the research activity on automotive cybersecurity at the University of Pisa with particular attention to attacks on keyless opening systems and securing over-the-air firmware/software update.

About the Speaker:

Prof. Dr. Gianluca Dini (male). Gianluca Dini is Full Professor of Computer Engineering at the Department of Information Engineering of the University of Pisa. His research interests are in the field of distributed computing systems with particular reference to cybersecurity. He has published 150+ papers in international conferences, books, and journals. He has participated to many projects funded by the Italian Government, private companies, and the Commission of the European Community (from FP6 to H2020), where he has also played roles of coordination. He teaches “Foundations of Cybersecurity” in the MS program in Computer Engineering of the University of Pisa and “Applied Cryptography” in the post-graduate Master in Cybersecurity of the same University. In 2016, he founded the post-graduate Master in Cybersecurity of which he used to be the director for five years. Finally, since 2018 he is the Director of the University Centre in Logistics Systems of the University of Pisa.

