Smart Cars and Cybercrime

Blaž Markelj, Ph.D., Assistant Professor, Faculty of Criminal Justice and Security, University of Maribor, Slovenia. E-mail: blaz.markelj@fvv.uni-mb.si

Gašper Školc, M.A., Faculty of Criminal Justice and Security, University of Maribor, Slovenia. E-mail: gasper.skolc@student.um.si

Vanja Ida Erčulj, M.A., Lecturer, Faculty of Criminal Justice and Security, University of Maribor, Slovenia. E-mail: vanja.erculj@fvv.uni-mb.si

Sabina Zgaga, Ph.D., Advisor to the Constitutional Court of the Republic of Slovenia and Assistant Professor, Faculty of Law, University of Ljubljana, Slovenia. E-mail: sabina.zgaga@us-rs.si

In the past, cars were considered only as means of transport, which centers were the driver, cars, and their interaction with traffic. For achieving safety, the driver's capability to drive in various conditions and the technical perfection of the cars were of utmost importance. However, with developing technology, the car has become a part of the Internet of things. It has become the means, which connects to cyber-space, functions on the basis of data, acquired from the environment and it connects to other smart devices, such as the wide variety of mobile devices. With such development, the car has become vulnerable to cyber-criminality as well, and while connecting to cyber-space, the car has become vulnerable to cyber-threats. The aim of the paper is to present the security of smart car user's data, to emphasize the awareness of this topic with smart car users (both private and business) as well as to point to certain criminal law issues relative to this topic. The first part of the paper includes information security issues regarding smart cars, which relate to criminal law elements, and threats, which could result in cyber-crime, are described. The second part of the paper discusses previous research in this area, which shows how well the participants are aware of information security of smart cars.