Mobility in Information Technology

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Information technology is increasingly permeating all areas of daily life (Dufva and Dufva 2019). Mobility applications are also supported by various forms of information and communication systems (Inac and Oztemel 2022). This year's conference focussed on digitisation driving mobility. This could be performed in different ways. From an IT perspective the focus could be on data or on systems. The following four contributions show this common ground in these areas. They relate mobility to digitisation, from digital forensics to a working method supported by geo-information systems and digital offerings from general practitioners.

Open-source data from social media was examined by Philipp Rosenkranz and Wilfried Honekamp. In a study they observed public users in five different social media applications. Depending on the activity of the users and the quality of the entries they show, that social media are suitable for creating movement profiles. Instagram, Snapchat and Facebook offer the best possibilities.

Ivonne Honekamp and Pia Niemann investigated, how far digitization has progressed in the practices of general practitioners in Germany and how important digital offerings are for patients. In a survey they questioned the current and future use of digital offers. The study showed, that personal contact with the doctor is still important for most respondents. In addition, only a few primary care physicians currently offer digital services. Only online appointments are relatively widespread.

Technical tools and possibilities for a forensic evaluation of automotive electronic systems are presented by Heiko Polster and Dirk Labudde. They investigated data from the internal bus system, the infotainment systems and the key responders. With different analysis tools for data acquisition, it is demonstrably possible, among others, to determine position data, stored routes, telephone data, error messages, time stamps and mileage.

Roman Povalej and Dirk Volkmann describe, how the police forces of the German states are dealing with the increasing flood of data. They discuss the use of Geographic Information Systems and the planning method Building Information Modeling for solving future tasks of police work and process flows and show chances and potentials. In particular, the transformation of analogue knowledge via digital knowledge transfer by means of the BIM working method would harmonise processes considerably and thus optimise time management.

The contributions show the breadth of mobility in information technology. That digitisation drives mobility is heavily demonstrated.

References

Dufva, T; Dufva, M. (2019): Grasping the future of the digital society. Futures, Futures 107, pp. 17-28.

Inac, H.; Oztemel, E. An Assessment Framework for the Transformation of Mobility 4.0 in Smart Cities. Systems 2022, 10, 1.