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Cyber forensics & automobile electronics

Modern vehicles contain computer systems that enable navigation, communication and entertainment. These units have the potential to generate evidence for a criminal or civil investigation. Research work undertaken thus far looks at applying digital forensic data recovery techniques to a number of automobile systems, both original equipment manufacturer and aftermarket. A number of challenges are faced by the community and are presented along with case studies, data analysis and suggestions for future work.

Biography

Gareth Dafydd Owen Davies is a Senior Lecturer (Digital Forensics) and Researcher in the Faculty of Computing, Engineering and Science at the University of South Wales. The main focus of his research is the forensic analysis of physical data storage technologies, in particular data recovery of malfunctioning hardware such as hard disk drives and memory chip-based devices. Over the past 5 years, he has built a name for himself as a Consultant and Investigator on incident response, forensic and evidential recovery cases. His clients include Hi-Tech Crime Units, The National Crime Agency, the Ministry of Defense, Government and large commercial organizations. He is also registered as an expert in forensic data recovery on the National Crime Agency Database. He holds three Adjunct Lecturer positions; one with the Security Research Institute Centre at Edith Cowan University, Western Australia, the second with The Centre for Cyber Security, Longwood University, Virginia, USA, and in the UK, Cranfield University, The UK Defense Academy. He is also a Committee Member of the Association of Digital Forensics, Security and Law based in the USA with equal responsibilities. He has also been awarded the Welsh Livery Company (London City Company) Gold Award for 2015, for significant contribution in his area of technology.

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Notes:

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