

PRIVACY RISK MANAGEMENT IN CRITICAL INFRASTRUCTURES

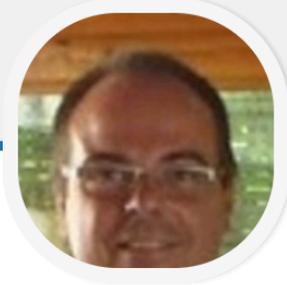
In recent years, the majority of the world's critical infrastructures (CIs) have evolved to become more flexible, cost efficient and able to offer better services and conditions for business opportunities. Towards this evolution, utilities, operators and suppliers offering CI services have had to adopt many of the recent advances of the field of information and communication technologies (ICTs). The adoption of such technologies, however, has often been conducted without considering the impact of ICTs on infrastructures where the private management of the collected data is of utmost importance. In the case of public health institutions, for example, guaranteeing the security of the infrastructure as well as patients' privacy, while simultaneously providing fast and reliable services is a must.

TRACK TOPICS

This track is intended to serve as venue for researchers and industry practitioners to exchange and discuss ideas around privacy risk management in CIs. Topics of interest include:

- Measurement and quantification of privacy and security risks
- Privacy and anonymity models
- Protocols and architectures for risk management
- Identity access management
- Trust and reputation systems
- Database and stream data anonymization
- Information leakage, data correlation and generic attacks to privacy
- Policy languages and tools for privacy
- Transparency enhancing tools
- Empirical studies of privacy in real-world systems
- Usable security and privacy
- Privacy and security architectures and solutions applied to different CI domains

TRACK CO-CHAIRS



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Jordi Forné received the M.S. and the Ph.D. in Telecommunications Engineering from the Universitat Politècnica de Catalunya (UPC). He is with the SISCO (Smart Services for Information Systems and Communication Networks) research group, leading the research team on data privacy.

Currently, he is an Associate Professor at the Telecommunications Engineering School in Barcelona - ETSETB . From 2014 he is in possession of the Advanced Research Accreditation and the Full Professor Accreditation.



Javier Parra Arnau

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Javier Parra-Arnau received the M.S. and Ph.D. degrees in Telematics Engineering from the Universitat Politècnica de Catalunya (Technical University of Catalonia, UPC), Barcelona, Spain, in 2009 and 2013 respectively. During his doctoral studies, he was a visiting researcher at NEC Laboratories Europe in Heidelberg, Germany, and also a lecturer of a course on telematics and communication networks.

From 2014 to 2015, he worked as a postdoctoral researcher with the Privatics Team, at INRIA Grenoble, Rhône-Alpes, France. Since December 2015, he is a Juan de la



Cierva postdoctoral fellow with the CRISES research group at the Dept. of Computer Science and Mathematics, Universitat Rovira i Virgili, Tarragona, Spain. His research attempts to leverage mature concepts and techniques amply utilized in information theory, convex optimization and stochastic estimation, to tackle the increasingly controversial problem of privacy in information systems from a perspective that is mathematically systematic and adheres to the principles of engineering optimization.

Among other honors, he received the prize to the Best Ph.D. Thesis on Information and Communication Technologies in Banking, from the Official College of Telecommunication Engineers (COIT) and Banco Sabadell; he has been awarded the competitive postdoctoral fellowship "Juan de la Cierva - Formación" from the Spanish Ministry of Economy and Competitiveness (MINECO); he has received the prize Data Protection by Design 2016, by the Catalan Data Protection Authority; and he has recently been awarded the competitive postdoctoral fellowship "Juan de la Cierva - Incorporación" from the MINECO.