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## Trust and reputation management in distributed and heterogeneous systems

Prof. Félix Gómez Mármol. NEC Laboratories Europe, Germany

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Facultad de Informática

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*entrada libre hasta completar el aforo*

### resumen:

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Trust and reputation management has arisen in the last years as a novel and efficient way to deal with some security threats emerging in several distributed and heterogeneous systems, especially in the absence of a central entity monitoring the behaviour of the entities composing such systems. An accurate, robust, scalable and efficient trust and reputation management aims to guide and assist end users to take smarter decisions when selecting amongst a pool of available service providers. Incentive mechanisms can be also incorporated in order to foster cooperation, while hindering and discouraging selfish behaviour. Trust and reputation management has been applied in a variety of scenarios and environments such as P2P networks, wireless sensor networks, vehicular ad hoc networks, mobile app stores, Internet of Things, etc. Nevertheless, there is a set of security threats specifically applicable to trust and reputation models which cannot be neglected or underestimated. Fortunately, there exist as well a set of countermeasures to combat each one of those threats, as well as a number of design recommendations to develop resilient and robust trust and reputation models. Trust and reputation management is a widely spread topic, capturing the interest both from the industry and academia. It is indeed an appealing, promising and trending research field with lot of challenges waiting to be solved.

### Sobre Félix Gómez:

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Félix Gómez Mármol received an MSc in Computer Science from the University of Murcia (Spain) in 2006 and a PhD in Computer Science from the same university in 2010, rewarded with the best PhD award. His research interests include authorization, authentication and trust and reputation management in distributed and heterogeneous systems, security management in mobile devices and design and implementation of security solutions for mobile and heterogeneous environments. He has collaborated in several national and European research projects focused on security in computer networks, such as SWIFT, Florence, IoT-A, SENSEI, HBB-Next, Semiramis, Seiscientos, etc. He has also developed several open-source software projects like TACS or TRMSim-WSN. He has published several articles in distinguished journals and conferences, like Computer Networks, Computers & Security, IEEE Communications Magazine, Journal of Networks and System Management or IEEE International Conference on Communications (IEEE ICC), and he holds two patents in the field of security in distributed networks. He has collaborated as a TPC member in more than 20 international conferences and participates as a reviewer in several high quality journals. He is member of the editorial board of the Elsevier Computers & Electrical Engineering journal, Elsevier Computer Standards & Interfaces and Advances in Network and Communications journal. During his doctoral studies, he performed a couple of research internships at NEC Laboratories Europe, in Heidelberg (Germany), where he is currently working as a senior researcher within the security group.