

Seminari di Divulgazione Scientifica

Aula A3 "Antonella Fiacca"
Dipartimento di Matematica e Informatica
Università degli Studi di Perugia

26 Giugno 2018
Ore 13.00

"THE BEAUTIFICATION OF SECURITY CEREMONIES"

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SUNTO: I contributed to devising "Beautiful security", a paradigm stating that security mechanisms should contribute to a beautiful user experience. Pairing this requirement with the assumption that people will be attracted to such an experience strengthens the overall security. The paradigm was defined at a fairly abstract level, and I am going to specify that by following an innovative methodology. The first step is to appeal to crowd-sourcing via both explicit and metaphorical questions aimed at distilling out general concepts underpinning people's attitudes to real-world security mechanisms. The answers can then be analysed to derive general design principles of beautiful security, which are, in turn, adopted to redesign and reinterpret existing security ceremonies. The final step leverages crowd-sourcing again to validate whether the reviewed ceremonies are found to be more beautiful than the original ones. I will demonstrate the methodology over four case studies: Italian voting, user-to-laptop authentication, password change and EU premises access. The findings are in part surprising though always enlightening.

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