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Presents the Spring 2013 EECS Seminar Series

Prof. Hossam Afifi
Institut Mines Télécom

"Trust Management in a Cloud Distributed Environment"
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ABSTRACT

The idea of the work is to use distributed trust evaluation of remote peers to rank servers in a cloud architecture. The clients execute code remotely and evaluate the correctness of the code. An algorithm based on Peron is used to evaluate and discover bad cloud servers. We show how several attacks can be discovered using this distributed algorithm and propose some game theory mechanisms to improve the system.

BIOGRAPHY

Hossam Afifi is professor at Institut Mines Télécom with Télécom SudParis Engineering School. He works with a team at Saclay south of Paris on wireless systems, smart grids networks and security. He has a Ph.D. from INRIA Sophia Antipolis and has been largely involved in protocol design from the early nineties. Today, his research projects cover some performance aspects in multimedia realtime delivery, vehicular communication and cloud security. Hossam is also active with the IEEE 802.11 standards groups where he collaborates on working groups items.

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