



# Hamilton Institute

Noninterference Analysis of  
Delegation Subterfuge in  
Distributed Authorization Systems

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**Abstract:** A principal carrying out a delegation may not be certain about the state of its delegation graph as it may have been perturbed by an attacker. This perturbation may come about from the attacker concealing the existence of selected delegation certificates and/or injecting new delegation certificates. As a consequence of this delegation subterfuge the principal may violate its own policy that guides delegation actions.

This talk considers the verification of the absence of subterfuge in systems that accept and issue delegation certificates. It is argued that this absence of subterfuge is not a safety property and a non-interference style security-property based interpretation is outlined.

**Venue:** Seminar Room, Hamilton Institute, Rye Hall, NUI Maynooth

**Time:** 2.00pm - 3.00pm

Travel directions are available at [www.hamilton.ie](http://www.hamilton.ie)