

# Università degli Studi di Salerno

Dipartimento di Studi e Ricerche Aziendali

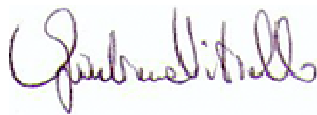
Corso di dottorato di Ricerca in "SCIENZE E TECNOLOGIE DELL'INFORMAZIONE, DEI SISTEMI COMPLESSI E DELL'AMBIENTE"

Ciclo XII

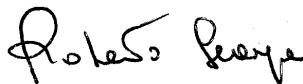
## Tesi di dottorato in:

A FRAMEWORK TO ASSESS RISKS AND DERIVE REQUIREMENTS FOR A COMPLEX SYSTEM

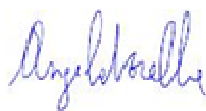
Tutor: Professoressa Giuliana Vitiello



Coordinatore: Professore Roberto Scarpa



Dottorando: Angela Vozella



Anno Accademico 2014

## ABSTRACT

This thesis provides an innovative framework, based on the risk assessment methodology, to support the design of a pioneering complex system, strongly ICT based, whose failures could threaten people, environment and society so it is safety critical.

Beyond the technical risks, the study identifies possible concerns of the society raised by the use of new technology (complementary measures), which have to be managed to guarantee a sustainable adoption.

The framework is applied to a case study in the aviation domain.