

1. Specify Research Question

How IT governance, IT risk management and IT compliance could be integrated?

2. Developing Review Protocol

Background	Today, enterprise processes have become so complex, Information Technology (IT) is more than just a technical issue. IT with its importance in an enterprise involves a governance layer which is steered by IT risk management and IT compliance. These disciplines (IT governance, IT risk management and IT compliance) are commonly dealt separately. From the business world comes a paradigm, referred as „GRC“, which covers all the three disciplines of governance, risk management and compliance. The main challenge is to have an approach as integrated as possible to improve efficiency and effectiveness of the three disciplines (Mayer & Barafort & Picard & Cortina, 2015)
Research question	Main question: How IT governance, IT risk management and IT compliance could be integrated? Sub-questions: <ul style="list-style-type: none">• What is current state of the art of IT GRC?• What is current state of the art of integrating IT GRC?

2. Developing Review Protocol

Strategy for search	<p>Sources and query:</p> <ul style="list-style-type: none"> • ACM Library: acmdlTitle:((grc OR (governance AND risk AND compliance)) AND (it "information technology")) recordAbstract:((grc OR (governance AND risk AND compliance)) AND (it "information technology")) • IEEEExplore ((governance AND risk AND compliance AND "information technology" AND NOT granular) OR (governance AND risk AND compliance AND IT AND NOT granular) OR (GRC AND IT AND NOT granular) OR (GRC AND "information technology" AND NOT granular)) • SpringerLink '(governance AND risk AND compliance OR GRC) AND (IT OR "information technology")' within General Issues Information Systems and Applications SWE English
Study selection criteria Study selection procedures	<ul style="list-style-type: none"> • Include if type is journal or proceeding. • Exclude if type is magazine paper, doctoral dissertation, preface for conference/workshop, book, poster. • Include if <u>title</u> includes GRC, OR governance AND risk management AND compliance. • Exclude if <u>title</u> includes granular computing or network. • Include if <u>abstract</u> includes governance, risk AND compliance. • Exclude if <u>abstract</u> has wrong acronym of GRC or the abstract indicates the paper is not about GRC interation.

2. Developing Review Protocol

Study quality assessment checklists and procedures

Quality criteria	Empirical study(survey, case study, experiment)
Research problem statement,	0,5p
Research questions	0,5p
Research method presentation	1p
Discussion/analysis	1p
Related work	1p
Conclusion,	0,5p
Are research questions answered?	0,5p
Result presentation	0,5p
Result analysis	0,5p
Threats to validity	1p

2. Developing Review Protocol

Data extraction strategy

Data item	Value	Note
Statistic info		
Date of extraction		
Extractor		
Title		
Quality score		
Contextual info		
Which processes have been defined for IT GRC?		
What roles of people are involved for IT GRC?		
What strategy is used for IT GRC?		
What is considered as technology for IT GRC?		

2. Developing Review Protocol

Project timetable

Task	Deadline
Creating a plan for the thesis	14.10.2015
Developing a protocol for the systematic review	21.10.2015
Validating the protocol	28.10.2015
Create a report for Seminar of Enterprise software	11.11.2015
Presentation for Seminar	03.12.2015
Conducting the review	27.01.2016
Writing the review report	20.03.2016
Empirical study on the results/validate report	27.04.2016