

Proposals for Master's Theses
2011/2012 de
INGE

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Prof. Per AGRELL (UCL/LSM/CESCM) proposes the following subjects for Master's Theses during 2011/12.

Ref topic	Students	Promoter
PJA12/01	I	Prof. AGRELL, UCL/LSM/CESCM
Domain	Lang	Internship
SCM	EN	
Title		
Coordination between OEMs and Contract Manufacturers for ICT product and process development under asymmetric information and upstreams competition		
Outline		
OEMs (e.g. Apple) delegate the production (assembly) to contract manufacturers (CM) for products with short life cycles and stochastic demand. The CM or upstream suppliers must undertake specific (potentially shared) investments to assure sufficient capacity. This project aims at developing an investment model for coordinating capacity investments when the OEM cannot validate costs and there are multiple OEMs drawing on the same CM and suppliers.		
Main references		
Agrell P J and P Bogetoft (2011) Coordination, Delegation And Organization Of Shared Supply Chain Investments Under Asymmetric Information. LSM WP.		
Data		

Ref topix	Students	Promoter
PJA12/02	I	Prof. AGRELL, UCL/LSM/CESCM
Domain	Lang	Internship
SCM	EN	
Title		
Risk-sharing in the Three-stage Supply Chain		
Outline		
<p>Most results for the coordination literature in supply chain management are developed for two-stage (dyadic) models. However, since supply chains typically involve multiple stages, these models may be of limited value when facing more complex settings. This project aims at developing a model for contractual coordinating of a three-stage supply chain when the three stages have different profiles and cost structures. The modelling approach is setting is similar to that in Agrell, Lindroth and Norrman (2004), but now with different base contracts.</p>		
Main references		
<p>Agrell, P J, Lindroth, R and A Norrman (2004) Risk, Information and Incentives in Telecom Supply Chains. International Journal of Production Economics 90(1), pp. 1-16.</p>		
Data		

Ref topix	Students	Promoter
PJA12/04	I	Per AGRELL, UCL/LSM/CESCM
Domain	Lang	Internship
DEA	EN	
Title		
Scientific productivity, promotion and retention in the academic world : the ACADEA follow-up		
Outline		
<p>In Agrell-Steuer (2000) a model was presented to assess the consistency between academic performance and salary increases for faculty members at the Department of Management at the University of Georgia. This study aims at determining the link between promotion, augmentation and productivity and retention for the same dataset, now with updates 2008-2010.</p>		
Main references		
<p>Agrell, P J and R Steuer. (2000) ACADEA - A Decision Support System For Faculty Performance Reviews. Journal of Multi-Criteria Decision Analysis, 9, pp. 191-204.</p>		
Data		
Exists : salaries for all UGA faculty members 2008-2010		

Ref topix	Students	Promoter
PJA12/04	I	Per AGRELL, UCL/LSM/CESCM
Domain	Lang	Internship
DEA	EN	
Title		
Productivity, efficiency and environment : a longitudinal study in Danish district heating plants 1999-2009.		
Descriptif		
In Agrell and Bogetoft (2004) a series of efficiency models were developed for the Danish district heating sector. This study aims at a longitudinal study to investigate the productivity development of the sector and its environmental impact in line with the European 2020 targets.		
Main references		
Agrell, P J and P Bogetoft (2004) Economic and Environmental Efficiency of District Heating Plants. Energy Policy, 33(10), pp. 1351-1362.		
Data		
Detailed plant-level data for 1999-2009 exists.		