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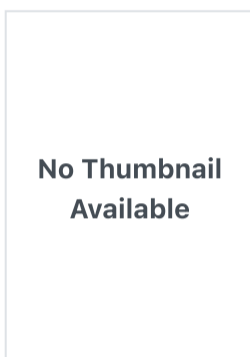
### [Probabilistic Seismic Hazard Analysis for Nuclear Power Plant Sites in Finland](#)

(2024-05-21) Vehmas, Juhana

Perustieteiden korkeakoulu | Master's thesis

Probabilistic seismic hazard analysis (PSHA) is a method used to estimate the likelihood of earthquake induced ground motions at a particular location. These estimates are then used to evaluate the risk to a structure such as a nuclear power plant (NPP). The latest PSHA for a Finnish NPP site located

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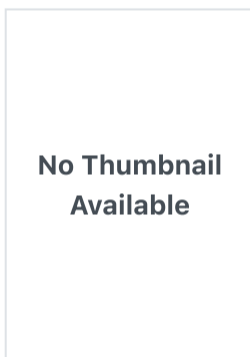
### [Macroeconomic Calibration Methods in Loss Given Default Modelling](#)

(2024-03-12) Lyly, Andrea

Perustieteiden korkeakoulu | Master's thesis

Financial institutions are required to perform credit loss provisioning under the International Financial Reporting Standard 9 (IFRS 9) accounting standard by calculating expected credit losses (ECL). ECL is calculated using three risk parameters: the probability of default (PD), loss given default (LGD)

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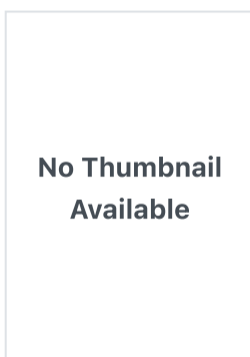
### [Stochastic Modelling Approaches for Commodity Prices](#)

(2024-01-24) Hämäläinen, Tatu

Perustieteiden korkeakoulu | Master's thesis

Commodity prices play an essential role in the development of macroeconomic variables such as inflation, interest rates, foreign exchange rates, and gross domestic product. In many industries, they also affect the direct and indirect costs of companies, as well as investment decisions. Thus, robust com

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### [Optimization of learning paths for individualized phishing training](#)

(2024-01-23) Taarna, Miio

Perustieteiden korkeakoulu | Master's thesis

Phishing emails are a common form of cybercrime, usually with the aim of stealing sensitive information, such as user credentials, by making victims do some form of unsafe action. Organizations have been increasing their spending on technical cybersecurity solutions, which has left phishing emails as a lu

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### [Models for Solving Multi-Agent Decision Problems](#)

(2023-12-12) Aunula, Jerry

Perustieteiden korkeakoulu | Master's thesis

Several ways of solving multi-agent decision problems, e.g., complete information game theory and adversarial risk analysis, have been proposed in the literature. Most approaches, however, cannot accommodate constraints spanning the entire problem or situations in which earlier decisions cannot be rec

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### [Forecasting of Zonal Power Transfer Distribution Factors in Flow-Based Market Coupling](#)

(2023-12-12) Andersson, Mika

Perustieteiden korkeakoulu | Master's thesis

This thesis focuses on forecasting the Zonal Power Transfer Distribution Factor (PTDF) in the context of Flow-Based Market Coupling (FBMC). The growing share of renewable energy in European energy sector has brought challenges to electricity markets and accurate forecasting of price. The FBMC m

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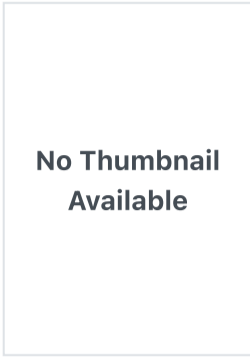
### [Assessing marginal abatement cost of bioplastics with an integrated assessment model](#)

(2023-08-23) Mattlar, Tuukka

Perustieteiden korkeakoulu | Master's thesis

This thesis studies the climate change mitigation potential of replacing conventional plastics production with bio-based plastics. The approach covers primarily the economic potential with varied climate policies. To achieve this system-level conception, an integrated assessment tool (IAM) called SuCCE

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### [Feasibility of a Reinforcement Learning Based Market Maker without Using Limit Order Book Data](#)

(2023-08-22) Savela, Joonas

Perustieteiden korkeakoulu | Master's thesis

This thesis investigates the performance of a deep reinforcement learning (DRL) based market maker trained solely on features calculated from realized trades, without using limit order book (LOB) data. A simulated exchange environment is developed to facilitate the training and evaluation of DRL-based m

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### [Modeling Non-Maturity Deposit Balances for Stress Testing](#)

(2023-06-13) Turtiainen, Lauri

Perustieteiden korkeakoulu | Master's thesis

Non-maturity deposits (NMDs) are of great importance to banks, but an inherently tricky phenomenon to model accurately. This thesis aims to model NMDs for a bank's stress testing by answering the research question - which predictive model is the most suitable for predicting daily NMD balances? Per

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### [Comparative Assessment of a Collaborative ModelOps Platform](#)

(2023-06-12) Katvio, Henri

Perustieteiden korkeakoulu | Master's thesis

Many software platforms are dedicated to making computer model creation more straightforward and accessible to wider user groups. Enabling collaboration between different types of users and accessing the models in a continuous fashion, however, has remained a challenge. ModelOps-term has been coin

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### [Suomalaisten päivälehtien omistuksen keskittyminen](#)

(2023-06-12) Airiola, Oula

Perustieteiden korkeakoulu | Master's thesis

Tämän diplomityön tarkoituksena oli tutkia suomalaisten päivälehtien omistuksen keskittymistä vuosina 2011–2021. Lisäksi tutkimuksessa selvitettiin omistuksen keskittymisen syitä ja seurauksia.

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### [Modelling of Uncertainties in Wind Power Forecasts](#)

(2023-05-16) Säskilähti, Lauri

Perustieteiden korkeakoulu | Master's thesis

The share of intermittent wind power generation is increasing in the power system. As weather-dependent, stochastic, non-dispatchable resource accurate forecasts of wind power production are necessary for efficient operation of both power system and electricity markets. There are several providers of st

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### [Calibration of European Option Pricing Models Using Neural Networks](#)

(2023-05-16) Luotonen, Peetu

Perustieteiden korkeakoulu | Master's thesis

An accurate modeling of option prices is important for many financial applications, such as hedging, or estimation of the underlying asset return distribution. For European options in particular, there exist many parametric pricing models. Many of these models have been developed in an attempt to impr

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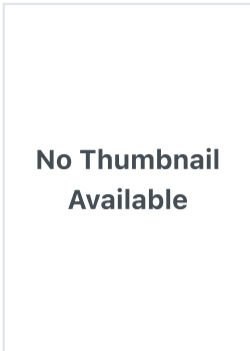


## [Regime-Based Black-Litterman Model for the Strategic Asset Allocation of Institutional Investors](#)

(2023-01-24) Huuhka, Toni  
Perustieteiden korkeakoulu | Master's thesis

The strategic asset allocation of institutional investors is the most important factor affecting portfolio returns. Nonetheless, mean-variance optimization is broadly used for strategic asset allocation among investment professionals despite its well-documented drawbacks regarding the estimates of expected r

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## [Margin of Conservatism in Credit Risk Models](#)

(2023-01-24) Rasa, Joonas  
Perustieteiden korkeakoulu | Master's thesis

Credit risk models rely on estimates which involve prediction errors. These models calculate the minimum capital requirement for institutions to avoid cash shortages in economic downturns. To overcome the effects of uncertainty cost by inaccurate variables, regulators require institutions to estimate the

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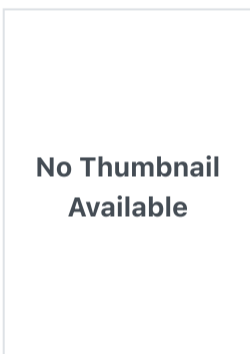


## [Scenario Selection in Probabilistic Cross-Impact Analysis](#)

(2023-01-24) Elfving, Vikke  
Perustieteiden korkeakoulu | Master's thesis

Cross-impact analysis (CIA) is a quantitative method for constructing scenarios from combinations of uncertainty factors that characterize possible future developments. Expert judgements can be elicited to characterize interdependencies between the outcomes of different uncertainty factors and their m

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## [Estimating the Effectiveness of Depression Care Pathways: A Process Mining and Survival Analysis Approach](#)

(2023-01-24) Mäkinen, Johannes  
Perustieteiden korkeakoulu | Master's thesis

Recurrent Depressive Disorder is a chronic mental illness whose treatment can span multiple years. The care pathways followed by patients need to be effective in preventing the patients from ending in work disability. This thesis aims to uncover the pathways that have been taken, and then to estimate and

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## [A Deep Learning Model for Filtering Unusable Visual Data](#)

(2023-01-24) Saastamoinen, Severi  
Perustieteiden korkeakoulu | Master's thesis

In this Master's Thesis, we study the creation of a classification model using deep learning neural networks for visual data. The purpose of the Thesis was to automatically filter out unusable pictures in defect recognition at a steel plant in order to streamline daily operations.

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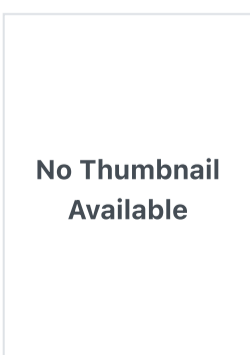


## [Value-at-Risk Analysis of EU Emission Allowance Options](#)

(2022-10-18) Vauhkonen, Ilmari  
Perustieteiden korkeakoulu | Master's thesis

The financial situation of electricity companies heavily depends on the value of energy assets in their portfolios, and more recently, on the price of emission allowances. To protect themselves from large price fluctuations, companies seek to hedge their portfolios with financial products. EU emission allow

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## [Improving the Interaction Between Policymakers and Researchers – Case Study in Demand Response in Finland](#)

(2022-10-10) Niemi, Anni  
Sähkötekniikan korkeakoulu | Master's thesis

The whole energy sector is undergoing a historic transformation which puts pressure on both supply and demand as generation is distributed, sectors are integrated and the need for flexibility grows increasingly. In this setting, there is a need for the interpretation of the evidence and cooperation be-tween r

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### [Elevator packing with various objects using cyclic placement method and quadratic line search](#)

(2022-06-14) Jokinen, Lauri  
Perustieteiden korkeakoulu | Master's thesis

In this Master's thesis, we will develop an algorithm for packing an elevator with various objects. For simplicity, our model is two-dimensional and we model the objects as capsules and rectangles and their combinations. The objects will arrive from an elevator door one by one until no more can be fitted. The  $\epsilon$

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### [Decision Programming Formulations for Optimal Asset Portfolio Management Under Uncertainty](#)

(2022-06-14) Olander, Leevi  
Perustieteiden korkeakoulu | Master's thesis

The management of physical infrastructure assets is crucial to the operation of modern societies. For example, environmental concerns and increasing competition means that decision makers need to consider multiple non-trivial causal relationships. Thus, mathematical modeling may bring substantial bene

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### [Sensitivity analysis of a seismic hazard assessment for a Finnish nuclear power plant](#)

(2022-06-14) Visakorpi, Vili  
Perustieteiden korkeakoulu | Master's thesis

Probabilistic seismic hazard analysis (PSHA) seeks to determine the frequency of occurrence of seismic events where ground movement exceeds a given threshold. It is a common first step in calculating seismic risk and engineering earthquake-resistant structures. Due to many uncertain parameters and

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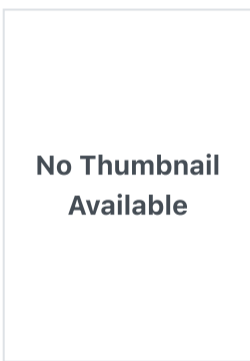


### [Optimization of information structures in influence diagrams](#)

(2022-06-14) Terho, Topias  
Perustieteiden korkeakoulu | Master's thesis

Since mid 1980s, influence diagrams have been used widely in decision analysis. Traditionally, influence diagrams have a predetermined structure and the no-forgetting property, which means that earlier decisions can be recalled when making later decisions. The main focus in the literature on influence dia

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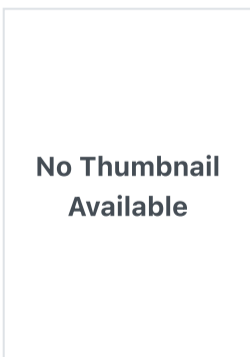


### [Price verification of interest rate options under market uncertainty](#)

(2022-06-14) af Björkesten, Emil  
Perustieteiden korkeakoulu | Master's thesis

A financial institution needs to keep the balance sheet valuations of their assets and liabilities consistent with the market. This is done by regularly comparing each valuation with other independently formed valuations and sets of pricing parameters. This thesis presents a framework for assessing when the

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### [Characterizing the winning bid features in multidimensional bidding](#)

(2022-03-22) Sihvonen, Roni  
Perustieteiden korkeakoulu | Master's thesis



### [Mittausepätkätyön määrittäminen radantarkastusvaunun validointitestauksessa](#)

(2022-01-25) Axelsson, Elias  
Perustieteiden korkeakoulu | Master's thesis

Raiteen asentoa mitataan säännöllisesti radantarkastusvaunulla, jotta turvallisuuden kannalta haitalliset poikkeamat huomataan mahdollisimman nopeasti. Radantarkastusvaunulle tehdään ennen käyttöönottoa validointitestausta, johon sisältyvillä testiajoilla pyritään varmistamaan, että vaunun suorituskyl

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## [Active management, investment style and mutual fund performance - Evidence from the Nordic market](#)

(2021-12-14) Vikelä, Janne  
Perustieteiden korkeakoulu | Master's thesis

This thesis examines the impact of active management and investment style on mutual fund performance in the Nordic market. Both active management and investment style have been investigated separately in other markets, but in the Nordic context, little previous research exists.

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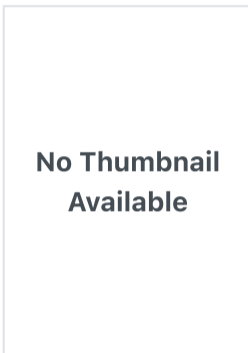


## [Verification and Validation of Passive Heat Removal Systems' Simulation Models](#)

(2021-12-13) Zein, Topias  
Sähkötekniikan korkeakoulu | Master's thesis

Deterministic safety analyses are performed in the nuclear industry to ensure that the plant in question can withstand certain postulated events. To study how the plant is affected by such transients or accidents, analyses are made using specialised software. This computer simulation program, a model of

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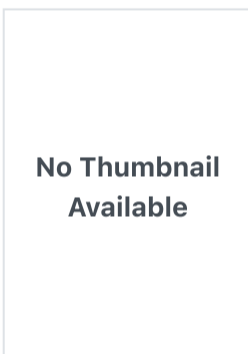


## [A credit scoring model for peer-to-peer consumer lending](#)

(2021-10-19) Nyman, Elin  
Perustieteiden korkeakoulu | Master's thesis

Credit scoring refers to the process of assigning a loan applicant a score according to the risk of them defaulting on their loan payments. The credit score is used for the decision of granting or not granting a loan to the applicant and for deciding the size of the loan and the interest rate. Accurate credit scoring

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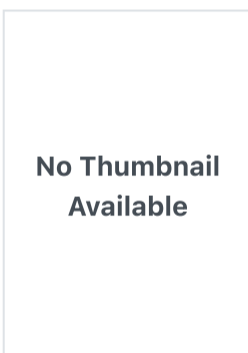


## [Modelling the Joint Distribution of Risk Factors in Financial Markets](#)

(2021-10-19) Hännikäinen, Hilikka  
Perustieteiden korkeakoulu | Master's thesis

The underlying entities, such as interest rates or foreign currency exchange rates, of financial derivatives are called risk factors. They represent the financial risk involved in the prices of the derivatives. The exposure to financial risk is in general estimated statistically from the distribution of profits and losses:

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## [Modelling Uncertainties in the Multistage Selection of Energy Projects](#)

(2021-08-24) Jiang, Bingzhen  
Perustieteiden korkeakoulu | Master's thesis



## [Optimization of logistics service provider's parcel network](#)

(2021-06-14) Leskinen, Juuso  
Sähkötekniikan korkeakoulu | Master's thesis

In this thesis, the mathematical modelling of parcel networks is studied. Especially, the focus is set on service network design problems, a class of optimization problems, where the problem is to design a service network and flow over this network. Furthermore, a specific part of the parcel network, namely the

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## [Default-implied asset correlations for Finnish small and medium-sized enterprises](#)

(2021-03-17) Ryhänen Rodellas, Marcos  
Perustieteiden korkeakoulu | Master's thesis

Default-implied asset correlation plays a critical role in determining regulatory capital and in measuring credit risk. Modelling correlations between default events is one of the biggest challenges in credit risk modelling. The Basel committee aims to strengthen the capital market by specifying the asset correlation

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### [Risk assessment of dynamic interdependencies based of sectoral survey data](#)

(2021-03-16) Saikkonen, Otto

Perustieteiden korkeakoulu | Master's thesis

In this thesis we conduct an exploratory analysis of risk propagation on a network of vital sectors to a National Emergency Supply Agency. The objective of the National Emergency Supply Agency is to secure continuity of production and infrastructure vital to the Finnish society. Mitigating the risk of disruption:

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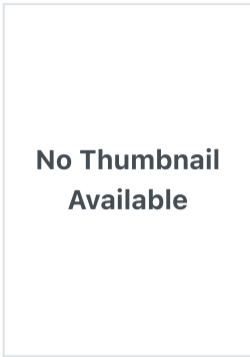
### [Valuing Pharmaceutical Assets During Clinical Development - A Thread-Oriented Method](#)

(2021-03-15) Pärssinen, Tuomas

Perustieteiden korkeakoulu | Master's thesis

The valuation of pharmaceutical companies' clinical pipelines during various development phases is a complex task. Traditionally, the valuation task is conducted with models which are better suited for company valuation than the valuation of clinical pipelines. The traditional valuation methods lack important v

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### [Customer loyalty in the sales of engine spare parts](#)

(2021-01-26) Sallinen, Iiro

Perustieteiden korkeakoulu | Master's thesis

Spare parts are in a key role in many industries because the lack of spare parts can lead to extremely costly downtime of industrial equipment. At the same time, manufacturing companies have shifted their focus towards the customer because providing spare parts and services can be more lucrative th

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### [Feasibility of a Reinforcement Learning Based Stock Trader](#)

(2020-08-18) Wilkman, Markus

Perustieteiden korkeakoulu | Master's thesis

Managing stock investments well is essential for both institutional and individual investors. The task is, however, so challenging that often a passive index may perform better than actively hand-picking the stocks to invest in. Machine Learning, which has successfully been applied to solve complex problem

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### [Strategic Asset Allocation Using Robust Covariance Estimation and Portfolio Optimization Methods](#)

(2020-06-17) Reinikainen, Kati

Perustieteiden korkeakoulu | Master's thesis

Strategic asset allocation is the single most important determinant of portfolio returns. While the drawbacks of using mean-variance optimization and the sample covariance matrix for strategic asset allocation are well-documented in the literature, they are still broadly applied among investment professionals

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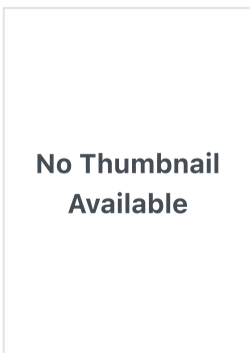
### [Identifying tactical asset allocation signals for US and European equities](#)

(2020-06-17) Vaskikari, Valtteri

Perustieteiden korkeakoulu | Master's thesis

Extensive research has been done to discover historically profitable tactical asset allocation strategies. Researchers have found a wide range of different market signals; valuation levels, company fundamentals, macroeconomic variables, sentiment indicators and seasonal patterns have been sugges

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### [Demand Driven Material Requirements Planning for Electronic Components](#)

(2020) Norrbäck, Jessica

Perustieteiden korkeakoulu | Master's thesis

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### [Assessment of cyber risk for energy utilities](#)

(2019-06-18) Kantala, Tommi  
Perustieteiden korkeakoulu | Master's thesis

Cyber risk assessment of industrial control systems and organizations using them is a challenging topic in risk analysis. In this Thesis, an approach to cyber risk assessment of energy utilities is proposed. The risk assessment is provided by a cyber security vendor for energy utilities. The aim of the approach

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### [A Structured Method for Identifying and Visualizing Scenarios](#)

(2018-06-19) Seeve, Teemu  
Perustieteiden korkeakoulu | Master's thesis

To retain their competitive edge, companies and other organizations must develop methods to increase their understanding of changes in the future operational environment. These changes can be characterized with a set of scenarios, which provide plausible depictions of the future. Scenarios can be mod

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### [An activity-based model of travel demand using an open-source simulation framework](#)

(2017-12-12) Väänänen, Touko  
Perustieteiden korkeakoulu | Master's thesis

As self-driving cars, mobility as a service and other new transport services start to shape the future of travel, decision makers need to have accurate and well-justified information about the possibilities and consequences of their decisions. With the emerging travel modes, we face novel situations and

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### [Pricing regulatory capital in over-the-counter derivatives](#)

(2017-10-03) Lanne, Joonas  
Perustieteiden korkeakoulu | Master's thesis

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### [Train driver rostering in Finland considering driver satisfaction](#)

(2017-10-03) Porokka, Aleksi  
Perustieteiden korkeakoulu | Master's thesis

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### [An Adaptive Recommender System for News Delivery](#)

(2017-08-22) Selonen, Katri  
Perustieteiden korkeakoulu | Master's thesis

Modern news websites contain plenty of constantly changing content. To better cater for different user types, the content shown needs to be personalised. This thesis presents the development of a recommender system for a large media company. The recommender system generates suggestions for news ar

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### [Capabilities, structural change and climate policy](#)

(2017-06-06) Landström, Mariko  
Perustieteiden korkeakoulu | Master's thesis

In order to hold the global warming below 2 degrees Celsius, also developing countries are required to urgently limit their greenhouse gas emissions. However, developing countries tend to fear that climate policy measures could harm their development.

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### [An Evaluation Model for a Ride-Sharing Problem](#)

(2017-04-04) Sallila, Markus

Perustieteiden korkeakoulu | Master's thesis

Cars often utilise only a fraction of their capacity. Ride-sharing utilises the excess capacity by connecting the drivers and the passengers. This Thesis develops a model to evaluate the performance of a ride-sharing platform. The objective of the model is to create performance estimates to see if a ride-shari

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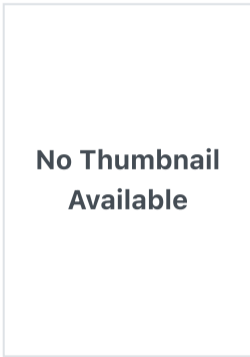
### [Predicting service contract churn with decision tree models](#)

(2017-01-17) Pohjalainen, Ville

Perustieteiden korkeakoulu | Master's thesis

Customer attrition is a central problem in sectors, whose revenue depend on customer relationships and it is more costly to acquire new customers than it is to retain current ones. Thus, targeted approaches are useful to reduce customer churn, given that the churning customers are correctly identified earl

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### [Sellun markkinahinnan ennustemalli](#)

(2016-12-13) Kanerva, Joonas

Perustieteiden korkeakoulu | Master's thesis

Sellu on muuttunut metsäteollisuudessa paperin raaka-aineesta myytäväksi välituotteeksi, kun sellu- ja paperiteollisuus ovat eriytyneet maantieteellisesti. Sellun hinta määräytyy kuukausittain myyjien ja ostajien välillä käytävissä hintaneuvotteluissa. Sen markkinahinnat vaikuttavat metsäteollisuusyritysten j

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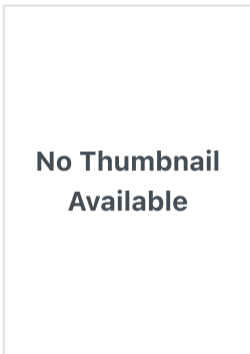
### [Henkilöstön strateginen mitoitus kokonaislukuoptimoinnilla](#)

(2016-10-25) Klemetilä, Santtu

Perustieteiden korkeakoulu | Master's thesis

Työntekijäkustannukset muodostavat suuren osan useiden alojen kokonaiskustannuksista, minkä vuoksi työvoimaresurssien tehokas käyttö ja oikeanlainen hankinta on tärkeää. Työvoiman käyttöä voidaan tehostaa hyvällä työvuorosuunnittelulla. Suunnittelua on perinteisesti tehty käsin, mutta tietotekniil

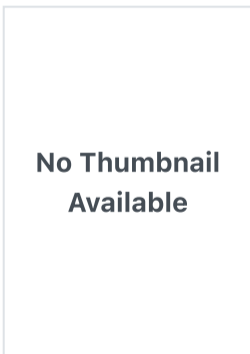
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### [Procurement Contracts under Uncertain Demand](#)

(2016-10-25) Anttonen, Turkka

Perustieteiden korkeakoulu | Master's thesis



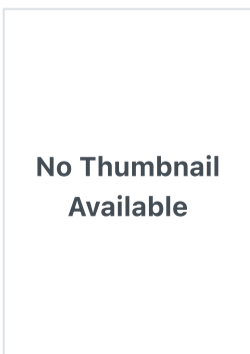
### [Strategisen toimitilamallinnuksen tarkkuustason määrittäminen](#)

(2016-10-25) Metsärinne, Saku

Perustieteiden korkeakoulu | Master's thesis

Strateginen toimitilamallinnus on organisaation strategian mukaisen toiminnan vaatimien tilojen mallintamista. Se on asiakkaan toiminnan asettamien tila ja ominaisuusvaatimusten kuvaamista ja luodun tilaohjelman kustannusten arvioimista erilaisiin tarkoituksiin.

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### [Total Valuation Adjustment with Collateralisation for Interest Rate Derivatives](#)

(2016-08-23) Reinval, Jaakko

Perustieteiden korkeakoulu | Master's thesis





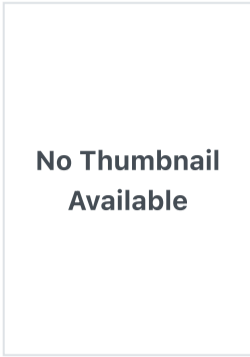
### [A Recommender System for an Online Auction](#)

(2016-08-23) Myrberg, Jesse

Perustieteiden korkeakoulu | Master's thesis

The development of recommender systems arise from the observation that individuals often rely on recommendations provided by others. Recently, new electronic business services with massive amount of information for users to filter, have caused a pressing need for recommender systems. Yet, displ

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### [Network Optimization of Drives Service Workshops](#)

(2016-08-23) Vähä-Pietilä, Ilari

Perustieteiden korkeakoulu | Master's thesis

In this master's thesis, we forecast demand and optimize the service workshop network of a global electronic equipment manufacturer. The existing workshop structure originates from a country based setup of the service support, which is most likely suboptimal for a global manufacturer providing support

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### [Simulation support for medium-term production planning at an energy utility](#)

(2016-06-14) Ojala, Vili

Perustieteiden korkeakoulu | Master's thesis

This thesis was made for the energy company Vantaan Energia (VE). VE uses a production schedule optimization program to estimate how much power they will produce in the next 1-48 months. The program's inputs among other things are the hourly spot price curve, hourly temperature curve and fuel cc

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### [Recognizing Transportation Modes by Multivariate Clustering of Accelerometer Data](#)

(2016-06-14) Ilomäki, Juuso

Perustieteiden korkeakoulu | Master's thesis

The dawn of the Quantified Self movement suggests that people are increasingly interested in collecting and analyzing data from their everyday lives. Data can be recorded by using specially designed 'life logging' devices, but a regular smart phone suits for the task as well. Smart phones are often carrier

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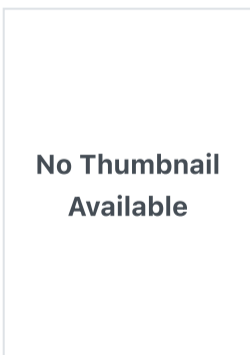
### [Optimised Strategies for Dynamic Asset Allocation](#)

(2016-06-14) Tuovila, Henri

Perustieteiden korkeakoulu | Master's thesis

Modern portfolio theory is a widely used framework in the financial industry. It has a solid theoretical background, and has been successfully employed by the practitioners for decades. Traditional models based on Harry Markowitz's portfolio theory, and its further improved versions, have one significant

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### [A Large-Scale Optimization Model for Tactical Wood Procurement Planning](#)

(2016-06-14) Lehtonen, Eero

Perustieteiden korkeakoulu | Master's thesis

Large-scale wood sourcing requires complex planning processes that are often supported by optimization models. This thesis focuses on tactical wood sourcing at a large Finnish forest industry company. The company is building a new planning system in order to improve upon the current process that in

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### [Energy-climate-forest modelling for integrated policy analysis](#)

(2016-04-05) Siljander, Riikka

Perustieteiden korkeakoulu | Master's thesis

Increased concern about global warming has led to an intensified search for new and efficient means to reduce greenhouse gas emissions (GHG). So far, forests have been part of climate policies mainly as a source of bioenergy which can substitute for fossil fuels. However, forests constitute also significant

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### [Importance Sampling for Simulating Risk Contributions of Corporate Loan Portfolios](#)

(2016-02-16) Kunnas, Janne

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The Basel II regulatory framework offers a simplified approach for quantifying credit risk of corporate loan portfolios. It is insufficient for banks and financial institutions as it does not take specific portfolio characteristics into consideration. Therefore, internal models are needed. Risk management practices

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### [Predicting Pilot Fatigue in Commercial Air Transportation](#)

(2016-02-16) Levo, Antti

Perustieteiden korkeakoulu | Master's thesis

Fatigue is a major human factor related cause of aviation accidents and currently subject to increased discussion by aviation authorities and professional pilots. Reducing fatigue and minimizing the risk of fatigue induced errors requires predicting the alertness state of crew members and identifying possible factors

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### [Imuohjautuva tuotantosysteemi epävarman kysynnän vallitessa](#)

(2016-01-19) Kaivosoja, Joonas

Perustieteiden korkeakoulu | Master's thesis

Toimitussysteemien on joustettava asiakaskysynnän muuttuessa. Yksi tapa lisätä joustavuutta on käyttää systeemissä imuohjausta. Imuohjatussa systeemissä tuotteiden valmistusta ohjataan toteutuneen asiakaskysynnän mukaan kysyntäennusteiden sijaan. Kysyntäennusteita käytetään sen sijaan strategisesti

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### [Lasten erikoissairaanhoidon tuottavuuden mittaaminen ja vertailu](#)

(2015-11-03) Siitonen, Susanna

Perustieteiden korkeakoulu | Master's thesis

Työssä tutkitaan tuottavuuden mittaamista ja vertailua erikoissairaanhoidossa Terveystieteiden ja hyvinvoinnin laitoksen tekemän Sairaaloiden tuottavuus 2012 – raportin hoitajaksotuottavuuslukujen perusteella. Tarkemmassa tarkastelussa on Turun yliopistollisen keskussairaalan lasten erikoissairaanhoidon, jota verrataan

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### [Quality Assessment Methods for Traffic Incident Information](#)

(2015-09-29) Käsäkangas, Teemu

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Road incidents are a significant factor in traffic delays. In Finland, approximately 65 % of traffic delays are connected to different types of incidents. While incidents themselves are difficult to eliminate altogether, their impact can be diminished with precise incident reporting.

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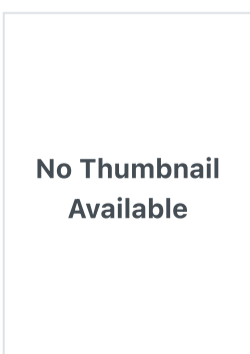
### [Loviisan ydinvoimalaitoksen käytettävyyssanalyysi huomioiden suuret riskit](#)

(2015-09-29) Koskenranta, Jukka

Perustieteiden korkeakoulu | Master's thesis

Loviisan ydinvoimalaitos kuuluu ydinvoimalaitosten parhaaseen neljännekseen käyttökertoimella mitattuna. Tästä syystä tavanomaisen vuoden käytettävyyttä on vaikea parantaa. Käyttökerroin on tämän työn päämittari käytettävyydelle. Käyttökertoimessa verrataan tuotettua energiaa tuotettavissa olevaan energiaan

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### [Turvatoimintoanalyysi yliopistollisen sairaalan lääkehoidon riskienhallinnassa](#)

(2015-06-09) Kajovaara, Jussi Joonas

Perustieteiden korkeakoulu | Master's thesis

Sairaaloissa tapahtuvista hoitovirheistä noin puolet aiheutuu lääkehoidossa. Suomessa lääkehoidossa tapahtuvista virheistä on alettu raportoida 2000-luvun aikana. Raportointikulttuuri on siis vielä kehityksensä alkuvaiheessa. Suomalaisissa sairaaloissa laajasti käytössä oleva HaiPro-järjestelmä asettaa tällaisia

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## [Demand and wind power scenarios for predicting power prices in a transmission-constrained system](#)

(2015-05-12) Rintamäki, Tuomas  
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Vaihteleva tuulivoimatuotanto on kasvanut merkittävästi Pohjois-Euroopassa viime vuosikymmenenä. Toinen sääriippuva tekijä alueen sähkömarkkinoilla on lämpötilariippuva kulutus. Koska tuulivoima- ja kulutusennusteet ovat epävarmoja, tässä työssä rakennetaan todennäköisyyspohjaisia skenaarioita, joi-

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## [Simulating artillery fire in forest environment](#)

(2015-03-31) Roponen, Juho  
Perustieteiden korkeakoulu | Master's thesis

Indirect fire provided by artillery and mortars is one of the most powerful weapons available to Finnish Army. Effective use of indirect fire requires as accurate as possible information about its effects on different targets. Military modeling is one possible way of obtaining information that can be used to support

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## [Market impacts of storage in a transmission-constrained power system](#)

(2014-12-02) Virasjoki, Vilma  
Perustieteiden korkeakoulu | Master's thesis

During the past few decades, electricity markets have been deregulated and standards for sustainability have increased. Consequently, producers with varying degrees of market power and transmission system operators (TSOs) aim to secure and balance electricity supply with fluctuating demand while coping

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## [Optimal Generation of Bent Plates in a Software Product](#)

(2014-12-02) Paavilainen, Tuomo  
Perustieteiden korkeakoulu | Master's thesis

Due to advances in information technology, Computer Aided Design (CAD) and Building Information Modelling (BIM), designers and architects are nowadays willing to design more complicated steel structures than before, which often containing geometrically complex solids. A support for bent and curved met-

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## [Post-processing wind speed forecasts with the extended logistic regression method for energy production](#)

(2014-11-04) Pönni, Outi  
Perustieteiden korkeakoulu | Master's thesis

Wind speed forecasts are used to forecast wind electricity production. More accurate wind speed forecasts reduce uncertainty in electricity production forecasts and therefore also balancing costs. In this thesis, we investigate the extended logistic regression (ELR) method for forecasting wind speeds by

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## [Ajasta riippuvien tekijöiden vaikutuksen arviointi todennäköisyyspohjaisessa riskianalyysissä](#)

(2014-09-30) Kleinberg, Raul  
Perustieteiden korkeakoulu | Master's thesis

Ydinvoimalaitosten todennäköisyyspohjaisessa riskianalyysissä laskennan perustulos on ajasta riippumaton keskimääräinen arvio laitoksen sydänvauriotaajuudelle. Ajasta riippuvat analyysit tutkivat riskitason ja sydänvauriotaajuuden muutosta ajan funktiona ja pyrkivät määrittämään hetkellistä riskiä nost-

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## [The impacts of forecast quality on an energy company](#)

(2014-09-30) Jussila, Tomi  
Perustieteiden korkeakoulu | Master's thesis

The de-regulation of the Nordic electricity markets has increased the volatility of the price of electricity and due to the increased uncertainty, forecasting has become more important for the companies that operate on the market. These companies need forecasts of the prices of electricity and fuel among c

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### [Exposure Estimation of Interest Rate Derivatives with Affine Term Structure Models](#)

(2014-09-30) Nikoskinen, Tuomas  
Perustieteiden korkeakoulu | Master's thesis

The financial crisis of 2007-2008 with the failures of prestigious large financial institutions has put the management of counterparty credit risk (CCR) in the spotlight. Enormous over-the-counter (OTC) derivatives market and increases in the regulation of economic capital related to OTC derivatives further

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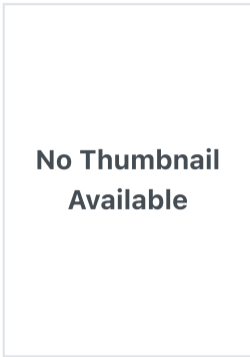


### [Analyses of Online Advertising Performance Using Attribution Modeling](#)

(2014-08-19) Rentola, Olli  
Perustieteiden korkeakoulu | Master's thesis

The importance for data-driven planning in online advertising has become a significant factor for marketers. Advancements in data collection technologies have provided marketers the prerequisites for thorough analyses of the impacts of online marketing activities and most often attribution models are us

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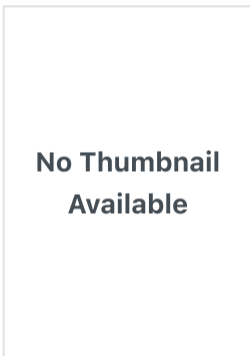


### [Statistical Learning Based Classification of Rare Events in Predictive Maintenance](#)

(2014) Mäkelin, Harri  
Perustieteiden korkeakoulu | Master's thesis

The detection and correct classification of rare events is a common problem encountered in diverse fields such as fraud prediction, network intrusion detection, churn analysis, medical diagnosis, and predictive maintenance. In the field of predictive maintenance, anticipating when a piece of equipment w

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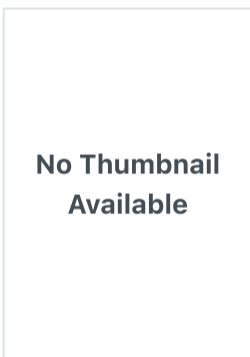


### [Statistical modeling of ice-induced loads on a research vessel](#)

(2014) Kotilainen, Mikko  
Perustieteiden korkeakoulu | Master's thesis

Interest in arctic natural resources and possibility of new ship routes have made navigation in ice covered waters, and safety of such vessels, a current topic. One concern when designing these vessels is to know the forces they are subjected to when they operate in ice. Because ice is a very inconsistent

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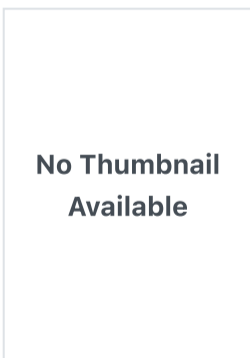


### [Evaluating Options for International Software Expansion within a Partner Channel Model](#)

(2014) Forsman, Jimmy  
Perustieteiden korkeakoulu | Master's thesis

The primary international distribution channel for enterprise software vendors is to have partners deploy their software. This makes their operations more cost-effective and scalable because the partner is responsible for the more labour-intensive tasks of software deployment. In addition, partners with local c

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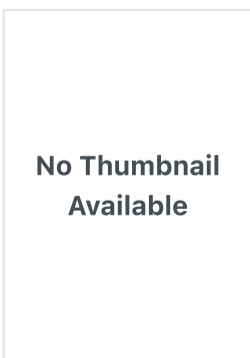


### [Joukkoliikenteen käyttäjämäärien estimointi matkakorttineistosta](#)

(2014) Koponen, Ville  
Perustieteiden korkeakoulu | Master's thesis

Efficient and well organized public transport is a requirement for smooth traffic and sensible urban structure. Traffic planning requires extensive data of travel behavior. The use of public transport can be examined with data collected from smart cards. Smart card data has many benefits over traditional data

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### [Customer Churn Modeling Using Sales System Data](#)

(2014) Ylilammi, Kimi  
Perustieteiden korkeakoulu | Master's thesis

Acquiring new customers is more expensive and challenging than retaining existing customers. Therefore, companies should take care of their existing customers in order to retain them. These so-called retaining actions should only be used for unsatisfied customers who are about to transfer their busine

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### [Development and Communication of Short Term Sales Forecasts](#)

(2013) Nysten, Tony  
School of Science | Master's thesis

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### [A short-term price forecast model for the Nordic electricity markets](#)

(2013) Kännö, Juha  
Perustieteiden korkeakoulu | Master's thesis

The Nordic countries have a common wholesale electricity market, where the price of electricity is determined by principles of supply and demand. The electricity exchange, Nord Pool Spot, calculates each day wholesale, or spot prices for each hour of the day ahead. Price forecasts are used by electricity proc

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### [The effect of experience on knowledge extraction from accident reports](#)

(2013) Hyttinen, Noora  
School of Science | Master's thesis

Databases built from information that is attained from existing accident reports are needed for accident research.

These databases can be used for instance to build mathematical models of accident cau:

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### [Product development process model for producing and maintaining market specific standard configurations](#)

(2013) Östring, Lars  
School of Science | Master's thesis

The purpose of this thesis is to create a software development process model for developing packaged software products that enables efficient deployment and maintenance of standard solutions at Enoro Oy.

The aim of the developed process is to produce packaged market-specific solutions whic

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### [Value-at-Risk Analysis of Credit Portfolios](#)

(2013) Parkkila, Kaisa  
School of Science | Master's thesis

During the past few years, the importance of credit risk management has increased due to tightened regulation and more severe financial implications.

To determine the economic capital required for credit operations, the probability distribut

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### [Predicting Complex Events in Sensor Data](#)

(2013) Kolehmainen, Jussi  
School of Science | Master's thesis

Complex event processing (CEP) analyzes data streams and detects complicated situations in real-time.

Domain experts write effective EPL (event processing language) queries to define complex events that are detected.

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### [Modeling of Seaborne Forward Freight Rates](#)

(2013) Viitasaari, Ville  
School of Science | Master's thesis

In this thesis, we analyze the market for dry bulk forward freight agreements.

The main topics to be discussed are seasonality and short-term hedging from the point of view of a trader minimizing the variance of a sales-driven portfolio.

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### [Estimation of human error probabilities based on operating experience from a nuclear power plant](#)

(2013) Hotakainen, Rasmus  
School of Science | Master's thesis

Power production based on nuclear energy involves certain risks, which have to do with the usage of radioactive materials.

Therefore, the safety of nuclear power plants is an important issue.

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### [A Consumer Choice Model in Retailing of Health Products](#)

(2012) Nuutinen, Juha Risto  
School of Science | Master's thesis

In recent years, the amount of detailed information on consumers' purchasing behaviour has increased through the automated recording of sales transactions, the widespread use of customer loyalty cards and the increasing popularity of e-commerce.

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### [Adaptive Emotion Based Decision Model for a Social Robot](#)

(2012) Sutinen, Martti  
Perustieteiden korkeakoulu | Master's thesis

This thesis introduces a computational model of emotions and decisions for a robot, which interacts meaningfully in a social context. The decision making framework is based on multi-attribute utility theory, but it contains a dynamic and adaptive emotional model which basically acts as a preference and p

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### [Statistical Regression Models for Ship Performance Analysis](#)

(2012) Vesterinen, Heikki  
School of Science | Master's thesis

High fuel prices and environmental regulations are forcing shipping companies to pay more attention on the energy efficiency of their vessels.

Hull and propeller fouling is a significant reason for decreased energy efficiency.

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### [Histogram based signatures for detecting warranty fraud](#)

(2012) Mansikkamäki, Ilkka  
Perustieteiden korkeakoulu | Master's thesis

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### [Using environmental value stream mapping for reducing energy consumption in manufacturing](#)

(2012) Ahlbäck, Karin  
School of Science | Master's thesis

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### [Palveluntuottajien tehokkuusvertailu suun terveydenhuollossa](#)

(2012) Hynninen, Yrjänä  
Master's thesis

The ageing population, the skewed dependency ratio and the increasing demand of services force health care service providers to seek ways to improve their operational efficiency. Identifying the essential processes and analyzing their efficiency is a prerequisite for improving the operations. Based on the effi

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[Reliability analysis for passive autocatalytic hydrogen recombiners of a nuclear power plant](#)

(2012) Silvonen, Taneli

School of Science | Master's thesis

This Thesis develops a framework of how to incorporate reliability analysis of a safety function or a device into a probabilistic safety assessment (PSA) of a nuclear power plant.

The framework is applied to a passive autocatalytic re-combiner (PAR) system which is d

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[Spill estimation of chemical tanker collisions in the Gulf of Finland](#)

(2012) Sormunen, Otto-Ville

School of Science | Master's thesis

This thesis analyses the risk caused by chemical tanker traffic in the Gulf of Finland with regard to spill volumes due to ship-ship collisions.

The Gulf of Finland experiences heavy marine traffic in dangerous conditions due to e.g.

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[The use of multilevel models to evaluate the effects of pay secrecy](#)

(2012) Alahuhta, Jari

School of Science | Master's thesis



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### [Short Term Load Forecasting with Analytic and Seasonal Time Series Methods](#)

(2012) Talvikoski, Lauri

School of Science | Master's thesis

Successful operation of an electrical utility requires good forecasts of the electricity demand. This thesis studies ways to create short term forecasts of the electricity demand based on historical data. The methods and models used in this thesis are generic enough so that not much needs

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### [Risk importance measures and common cause failures in dynamic flowgraph methodology](#)

(2011) Tyrväinen, Tero

Master's thesis

Vikapuuanalyysi on perinteisesti ollut johtava menetelmä monimutkaisten järjestelmien luotettavuusanalyysissä. Vikapuilla ei kuitenkaan aina pystytä kuvaamaan järjestelmien dynaamisia ominaisuuksia riittävän tarkasti. Dynaamista luotettavuusanalyysiä on tutkittu laajasti 1990-luvulta lähtien. Dynaamisia las

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### [Comparing Road Pavement Maintenance Strategies Using Simulation Model](#)

(2011) Junes, Janne

School of Science | Master's thesis

Increasing traffic volume and decreasing maintenance budget force road agencies to develop new strategies for the road maintenance.

This thesis studies road pavement maintenance strategies by mathematical modeling.

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### [Emergency medicine services simulation and optimization model](#)

(2011) Luukkonen, Teppo

School of Science | Master's thesis

The daily workload of an ambulance crew can be significant if there are several medical emergencies during the day.

However, the workload can also be low if there are few emergency calls.

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### [Assessment of risks and cost-efficiency of national greenhouse gas abatement actions in Finland](#)

(2011) Hast, Aira

School of Science | Master's thesis

According to the EU climate and energy package Finland should reduce greenhouse gas (GHG) emissions in national, non-trading sectors (non-ETS) at least 16 % below 2005 levels by 2020.

In order to meet this target Finland has to implement GHG abatement activities.

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### [Tactical forecasting of arrivals to call centers](#)

(2011) Nurmentaus, Joni

School of Science | Master's thesis

Time series models are a common approach to the forecasting of arrivals to call centers.

The purpose of forecasting is to achieve improved financial efficiency while maintaining an acceptable service level in a call center.

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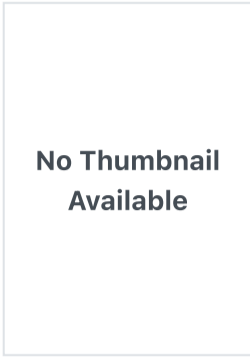


### [Acceleration of Innovation Processes in the ICT Sector](#)

(2010) Taajamaa, Mauno  
School of Science | Master's thesis

The goal of this thesis is to study the acceleration and success factors of business model innovation processes within a network of companies in the ICT sector.

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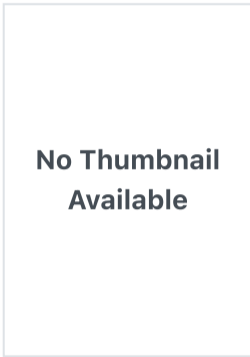


### [Identification of behavioural changes from large-value payment systems data](#)

(2010) Nummelin, Tuomas  
School of Science | Master's thesis

Payment systems represent some basic infrastructure for the modern financial markets. The turnover of such systems is enormous. For instance, the Eurosystem's large-value payment system TARGET2 settles the worth c

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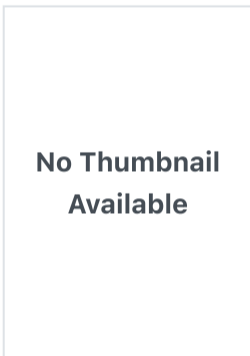


### [Risk Follow-up in Regulatory Control of Nuclear Safety](#)

(2010) Laitonen, Janne  
School of Science | Master's thesis

This thesis examines risk follow-up in the framework of regulatory control of nuclear safety. In Finland, the power companies are obliged to report all operational events to the Radiation and Nuclear Safety Authority (STUK).

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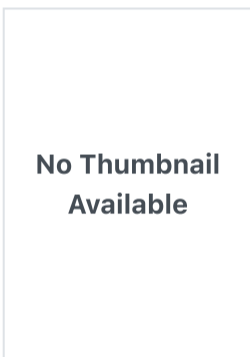


### [Scenario Testing in Managing the Market Risk of an Interest Rate Derivatives Portfolio](#)

(2010) Pekkala, Timo  
School of Science | Master's thesis

This thesis develops a method for market risk measurement of an interest rate derivatives portfolio. The potential value loss of the portfolio is tested on a daily basis using market scenarios for interest rates and interest rate volatilities.

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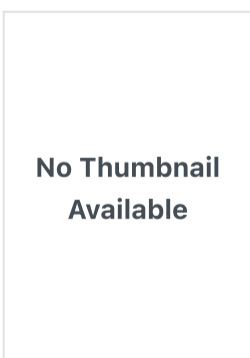


### [Cost-effective nutrient abatement in the Baltic Sea](#)

(2010) Ahlvik, Lassi  
School of Science | Master's thesis

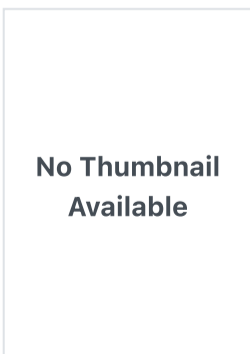
The Baltic Sea is threatened by numerous environmental problems, with eutrophication being the most visible to the public due to increased cyanobacterial blooms and decreased sight depth. It is a problem which is too widespread to be solved by unilateral actions and therefore re

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### [Analysis of the Retention and Acquisition Rates of Selected Mobile Phone Manufacturers](#)

(2010) Vesanen, Riina  
School of Science | Master's thesis



### [Hedging currency exposures in a multinational corporation](#)

(2010) Liede, Jari Antero  
School of Science | Master's thesis

Financial theory offers several rationales for financial risk management. Hedging enables firms to maintain their access to internal funds as well as reduces the costs of financial distress.

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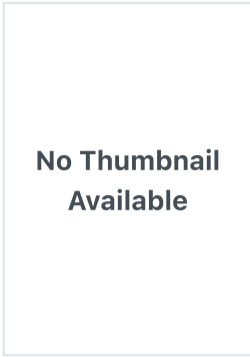
### [Modeling and Forecasting of Local Geomagnetic Activity](#)

(2010) Mattinen, Maija Katariina  
School of Science | Master's thesis

In this thesis, we study the modeling and forecasting of local geomagnetic activity and develop a local prediction model.

Many existing forecasting models predict global activity but in order to prevent harmful a

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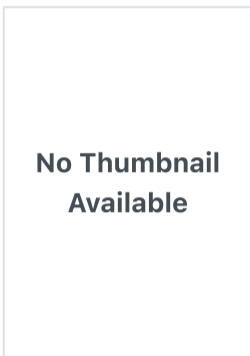
### [The effect of inaccurate calculation parameters on the assesment of radiation doses](#)

(2010) Guerfi, Reda  
School of Science | Master's thesis

Because of the existence of radioactive nuclei in the process of nuclear power production, there are various environmental risks related to the process.

Therefore, the objective of the nuclear industry is to conduct all operations of the nuclear

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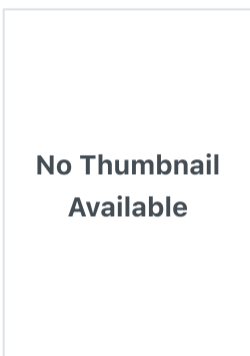


### [Capital structure and valuation - A cross-sectional analysis of Finnish companies](#)

(2010) Räsänen, Harri  
School of Science | Master's thesis

The objective of the thesis is to examine whether there exists a statistically significant cross-sectional relationship between Finnish companies' capital structures and commonly studied determinants of capital structure, namely, volatility, non-debt tax shields and costs of financial distress.

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### [Evaluation of Fire Risks for a Room in the Loviisa Nuclear Power Plant Using Two Methods](#)

(2009) Loimula, Mikko  
Helsinki University of Technology | Diplomityö

Fire initiated events account for a significant part of the core damage frequency in the nuclear power plants. In the Loviisa nuclear power plant the fire risks account for 15 % of the total risk of core damage.

Therefore, the analysis of fire risks plays an important role in minimizing the risks related

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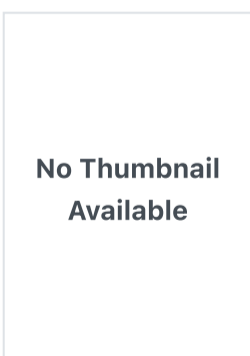
### [A Resource Allocation Model for Standardisation Activities in a Telecommunication Company](#)

(2009) Toppila, Antti  
Helsinki University of Technology | Diplomityö

Compatibility, interoperability, market growth and technology utilisation are key issues in competitiveness for a telecommunications company.

Standardisation can help to achieve these goals.

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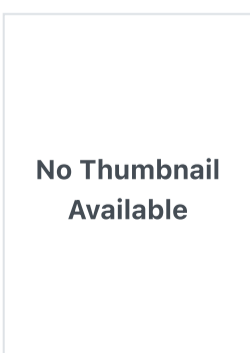
### [Estimating the Liquidity Premium of Equity Indices](#)

(2009) Niskanen, Ville-Veikko  
Helsinki University of Technology | Diplomityö

Hyvin toimivat pääomamarkkinat ovat tärkeitä eri maiden kansantalouksien kehitykselle.

Toimivilla markkinoilla sijoittajat pystyvät toteuttamaan suuria transaktioita lyhyessä ajassa vaikuttamatta hintoihin.

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### [Consideration of Major Uncertainties in the Risk Study of a Nuclear Power Plant](#)

(2009) Helander, Juho  
Helsinki University of Technology | Diplomityö

Probabilistic risk assessment (PRA) is an important tool in assessing the safety of a nuclear power plant. Probabilistic approach allows the selection of plant modifications which efficiently decrease the plant total risk.

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### [The replicating portfolio technique for the asset-liability management in life insurance companies](#)

(2009) Liljeström, Kim  
Helsinki University of Technology | Diplomityö

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### [Efficiency analyses of interrelationships between university research groups and their funding sources](#)

(2009) Ollila, Matti Johannes  
Helsinki University of Technology | Diplomityö

National research and innovation policy contributes to nations' international success. In order to support chances for success, many countries have increased their research and development expenditures.

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### [Modeling of Phenomenological Uncertainties in Level 2 Probabilistic Safety Assessment of a Nuclear Power Plant](#)

(2008) Suopajärvi, Atso  
Helsinki University of Technology | Diplomityö

This Thesis surveys how phenomenological uncertainties are modeled in level 2 probabilistic safety assessment (PSA).

The methods are then applied to a study case of Loviisa nuclear power plant.

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### [Customer segmentation in retail banking](#)

(2008) Ryyänen, Erkki  
Helsinki University of Technology | Diplomityö

Koska tuotteiden erilaistaminen on vähittäispankkitoiminnassa vaikeaa, pankkien välinen kilpailu keskittyy pitkälti asiakastyytyvyyteen.

Siksi asiakkaille olisi tärkeää tarjota henkilökohtaista palvelua.

[Show more](#)



### [National sea transport demand and capacity forecasting with system dynamics](#)

(2008) Ruutu, Sampsa  
Helsinki University of Technology | Diplomityö

Suurin osa Suomen ulkomaankaupasta käyttää merikuljetuksia.

Tämän vuoksi satamilla on merkittävä osuus valtakunnallisessa kuljetusjärjestelmässä.

Viimeaikoina satamissa on ollut myös kasvava määrä transitokuljetuksia, jotka kulkevat Suomeen.

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### [Efficiency analysis of material input and nutritional values of foodstuffs](#)

(2008) Kauppinen, Tommi  
Helsinki University of Technology | Diplomityö

Työssä tarkastellaan Data Envelopment Analysis (DEA) menetelmän sopivuutta sellaisen kuluttajaindikaattorin muotoilemiseen, joka yhdistää elintarvikkeiden tuotannon ympäristövaikutukset muuhun tuotetietoon.

Lisäksi työssä arvioidaan DEA-menetelmän soveltuvuutta välineeksi, jolla julkishallinto ja tutkimusorganisaatiot voivat arvioida elintarvikkeiden tuotannon ympäristövaikutuksia.

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### [Forecasting the probability of corporate default](#)

(2008) Kovanen, Lauri  
Helsinki University of Technology | Diplomityö

Työssä muodostetaan erotteluanalyysiin perustuva malli suomalaisten pienten ja keskisuurten yritysten maksuhäiriötodennäköisyyden ennustamiseen.

Maksuhäiriötä ja siihen johtavaa prosessia tarkastellaan yritykselle luottoa myöntävän pankin näkökulmasta.

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### [Designing a global supply chain for a consumer product manufacturer](#)

(2008) Gylling, Michael  
Helsinki University of Technology | Diplomityö

Kansainvälinen kilpailu on lisääntynyt kaikilla markkinoilla. Tämän johdosta yritysten täytyy löytää yhä innovatiivisempia tapoja luoda arvoa asiakkailleen ja samanaikaisesti pienentää kustannuksia operaatioissa Globaalissa ympäristössä eri alojer

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### [Non-maturity deposit valuation and hedging](#)

(2008) Eronen, Tanja Susanne Elisabeth  
Helsinki University of Technology | Diplomityö

Usually non-maturity deposits form a considerable part of banks' assets and funding and thus hedging the interest rate risk of them is important. However, the available research addressing non-maturity deposit valuation is very limited

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### [Approaches to Group Decision Support in Robust Portfolio Modeling](#)

(2008) Vilkkumaa, Eeva  
Helsinki University of Technology | Diplomityö

Methods of multi-criteria decision analysis (MCDA) provide normative support for decision making processes. Out of these methods, Robust Portfolio Modeling (RPM) helps decision makers (DMs) to select the best possible subset or portfolio of available projects in the presence of scarce resources.

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### [Copula functions in pricing credit baskets](#)

(2008) Holma, Ville  
Helsinki University of Technology | Diplomityö

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### [Portfolio Analysis in the Cost-Effectiveness Evaluation of Weapon Systems](#)

(2008) Kangaspunta, Jussi  
Helsinki University of Technology | Diplomityö

Cost-ectiveness evaluation of weapon systems is needed to support acquisition planning of new systems to produce well-grounded allocation of resources to achieve the impact requirements. Evaluation of cost-ectiveness is often complicated by presence of multiple impact criteri:

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### [Cost-efficient reduction of agricultural load to water system](#)

(2008) Dufva, Mikko  
Helsinki University of Technology | Diplomityö

Tämä työ käsittelee maatalouden vesistökuormituksen vähentämistä. Käytettävissä olevan aineiston pohjalta lasketaan kuormitusta eniten vähentävä peltotoimenpiteiden jakauma ja perustettavien kosteikkojen määrä ottaen huomioon peltojen ominaisuudet.

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### [Analyses of Flight to Quality in Financial Markets](#)

(2008) Ehrnrooth, Markus  
Helsinki University of Technology | Diplomityö

From time to time prices of nancial instruments react strongly and simultaneously. These sharp market movements are generally symptoms of risk aversion among investors and are called ight to quality, because investors rush to buy safe assets during them.

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### [Pricing of exotic foreign exchange rate options](#)

(2008) Eloranta, Antti  
Faculty of Information and Natural Sciences | Master's thesis

The popularity of exotic foreign exchange rate options has grown rapidly during the past decade. High profit margins and rapid market growth have made the market particularly lucrative for the banks. On the other hand, the correct pricing of exotic options requires more sophisticated models than the traditio

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### [Development of Systematic Backtesting Processes of Value-at-Risk](#)

(2007) Lehikoinen, Kimmo  
Helsinki University of Technology | Diplomityö

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### [Identifying Undervalued Stocks with Multiple Financial Ratios](#)

(2007) Väyrynen, Olli  
Helsinki University of Technology | Diplomityö

Yrityksen nykyarvon määrittämisestä ovat kiinnostuneita lainsäätäjät, yrityksen johto, salkunhoitajat sekä myös yksityiset henkilöt.

On olemassa lukuisia tapoja määrittää yrityksen arvo ja toiset niistä ovat subjektiivisia ja t

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### [Forecasting in End-of-Life Spare Parts Procurement](#)

(2007) Käki, Anssi  
Helsinki University of Technology | Diplomityö

Huoltopalvelut ovat jatkuvasti kasvava tulojen ja asiakastyytyväisyyden lähde tuotantotaloudessa.

Hyvän palvelun takaamiseksi yritysten tulee varmistaa huollossa tarvittavien varaosien riittävyys jakelukeskuk-

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### [Calibration of a forward rate market model](#)

(2007) Salminen, Timo  
Helsinki University of Technology | Diplomityö

Diplomityön tarkoituksena on tutkia LIBOR Market Model (LMM) -korkomarkkinamallia, jota käytetään forward-

korkojen simuloimiseen.

Työn päätarkoitus on parhaan menetelmän löytäminen mallin kalibroimiseen nykyiseen m.

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### [Scenarios on the burden sharing of climate change mitigation](#)

(2007) Ekholm, Tommi  
Helsinki University of Technology | Diplomityö

Poliittinen keskustelu ilmastonmuutoksen hillinnästä on kasvanut kansainvälisesti, ja eräs avainkysymys on ol-

lut taakanjako, ts. kuinka paljon kukin valtio on oikeutettu tuottamaan kasvihuonekaasupäästöjä.

Tässä diplomityössä tarkastellaan päästövähennysten vaikutuksia TIMES-energiajärjestel-

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### [Risk-Informed Optimization of Allowed Outage Times of a Nuclear Power Plant](#)

(2007) Sirén, Sami  
Helsinki University of Technology | Diplomityö

Todennäköisyyspohjaisia menetelmiä käytetään yhä enemmän ydinvoimalaitosten turvallisuusteknisten käyt-

töehtojen parantamisessa.

Tässä diplomityössä esitetään menetelmä sallittujen korjausaikojen (AOT) riskitietoiseen c

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### [The Impact of Evaluation Information in Project Portfolio Selection](#)

(2007) Nissinen, Juuso  
Helsinki University of Technology | Diplomityö

Erilaisilla organisaatioilla on tyypillisesti enemmän hyviä ideoita ja hanke-ehdokkaita kuin mitä ne pystyvät rajallisten resurssiensa puitteissa käynnistämään.

Tällöin organisaation on pyrittävä tunnistamaan sellainen ja valitsemaan hanke-ehdokka

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### [Communication service provider's information requirements for yield management](#)

(2007) Brunila, Jenni  
Helsinki University of Technology | Diplomityö

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### [Project portfolio management in a R&D organization](#)

(2007) Korpiaho, Kalle  
Helsinki University of Technology | Diplomityö

Tässä diplomityössä tarkastellaan yksittäisen tutkimus- ja kehitysprojektin arvottamista ja T&K-projektijoukon hallintaa portfoliona.

Tutkimus- ja kehitysorganisaatioilla on ideoita uusiksi T&K-projekteiksi huomattavasti ene

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### [Assessment of customer profitability in a multinational paper company](#)

(2007) Kujamäki, Ilkka  
Helsinki University of Technology | Diplomityö

Asiakaslähtöisessä yrityksessä asiakaskannattavuuden mittaaminen on ensiarvoisen tärkeää.

Yksi suurimmista haasteista kannattavuuden ja asiakkuuksien arvon mittaamisessa on sopivan tiedon saatavuus.

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### [Portfolio Decision Making in Innovation Management](#)

(2007) Jalonen, Erkki  
Helsinki University of Technology | Diplomityö

Innovaatiojohtamisen portfoliopäätösten luonteenomaisia piirteitä ovat monimutkaisuus, immateriaalisuus ja tulevaisuussuuntautuneisuus.

Tavanomaisiin konkreettisiin valintaongelmiin verrattuna tämä luo ylimääräisiä vaatimuksi:

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### [Modelling the Volatility Risk of an Option Portfolio](#)

(2007) Malava, Antti  
Helsinki University of Technology | Diplomityö

Sijoitusportfolion riskienhallinta käsittää rahoitusriskien identifioinnin ja estimoinnin sekä position suojaamisen erityyppisiltä rahoitusriskeiltä.

Näistä markkinariski syntyy markkinakelpoisten rahoitusinstrumenttien, kuten osakkeiden

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### [The Electricity Sector in Russia - From Central Planning to Liberalized Markets](#)

(2006) Similä, Lassi  
Helsinki University of Technology | Diplomityö

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### [Multicriteria Analysis and Visualization of Location-Allocation Problems](#)

(2006) Suomalainen, Emilia  
Helsinki University of Technology | Diplomityö

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### [Construction of demand scenarios in paper industry](#)

(2006) Lehtinen, Hannele  
Helsinki University of Technology | Diplomityö

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### [Determining an optimal cut-off point in credit scoring](#)

(2006) Virtanen, Pasi  
Helsinki University of Technology | Diplomityö

Matemaattisista ja tilastollisista malleista on tullut erottamaton osa luottopäätöksen tekoa. Hyvä malli luoton hakijoiden arviointiin mahdollistaa luottopäätösten teon nopeammin, pienemmin kustannuksin ja luotettavammin.

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### [Foresight in a Research and Technology Organisation](#)

(2006) Pirttimäki, Antti  
Helsinki University of Technology | Diplomityö

Nopeutuvat tuotesykli, monimutkaistuva ja monipuolistuva teknologinen kehitys ja tutkimus- ja kehitystoiminnan pitkät aikajänteet pakottavat tulevaisuuden kehityspolkujen ennakoimiseen oikeiden valintojen tekemiseksi. Teollisuudessa tuotekehitysprosessi hallitaan usein erittäin hyvin, kun puolestaan toimint:

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### [Calibration of an Optimisation Model for Short-term Hydropower Production Planning](#)

(2006) Kerola, Mikko  
Helsinki University of Technology | Diplomityö

Sähkömarkkinoiden säännöstelyn purku on tuonut uusia haasteita kaikille sähköliiketoiminnan osapuolille. Nykyisessä tilanteessa sähköntuottaja kohtaa epävarman sähkön markkinahinnan. Tuotannonsuunnittelusta on tullut hintalähtöistä, ja optimaalinen tuotannonsuunnittelu on

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### [Analysis of Short-Term Hydro Power Production in the Nordic Electricity Market](#)

(2005) Javanainen, Timo  
Helsinki University of Technology | Diplomityö

Sähkön hinnan ennustaminen on kiinnostava asia vapailla sähkömarkkinoilla toimiville tuotantoyhtiöille, jotka pyrkivät optimoimaan tuotantonsa mahdollisimman tuottavasti.

Julkisen informaation tehokas hyödyntäminen sekä markkinafundamenttien ymmärtäminen

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### [Stochastic Warfare Modeling](#)

(2005) Kangas, Lauri  
Helsinki University of Technology | Diplomityö

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### [Cost-benefit analysis of rare products in metal processing](#)

(2005) Pöyliö, Jouni

Helsinki University of Technology | Diplomityö

Rare products give rise to various challenges and atypical cost elements in the metal processing industry. Rare products are often in the early stages of their product life cycle, thus posing challenges in production and requiring additional R&D expertise.

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### [Internet-based generation and multi-criteria screening of innovation ideas](#)

(2005) Brummer, Ville

Helsinki University of Technology | Diplomityö

Tässä diplomityössä esitellään uusi verkkopohjainen ennakointimenetelmä, joka kehitettiin tukemaan kauppa- ja teollisuusministeriön asettaman ennakointifoorumin pilotin kolmen aiheyrhmän työskentelyä.

Menetelmä koostuu neljästä vaiheesta; i) innovaatioaihioiden ideointi, ii) kommentointi ja i

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### [Development of load forecast models in an electrical utility](#)

(2005) Vuorinen, Matti Sakari

Helsinki University of Technology | Diplomityö

Nykyaikaiset energianhallintajärjestelmät mahdollistavat aikaresoluutioltaan entistä tarkempien vuosibudjettien laskennan.

Jotta järjestelmän laskentakyvystä saadaan täysi hyöty, pitää laskennan lähtötiedoissa an

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### [Risk-Informed Balancing of Allowed outage Times of a Nuclear Power Plant](#)

(2005) Kivirinta, Toivo

Helsinki University of Technology | Diplomityö

Tämä tutkimus on ensimmäisiä askelia laajemmassa tehtävässä, jossa Loviisan ydinvoimalaitoksen Turvallisuusteknisten käyttöehtojen (TTKE:n) kattavuus ja tasapainoisuus tarkastetaan PSA:n avulla.

Tässä diplomityössä esitetään yksi menetelmä sallittujen korjausaikojen (AOT) riskitietois

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### [Short-Term Procurement Optimisation in Deregulated Energy Markets](#)

(2005) Niemelä, Sami

Helsinki University of Technology | Diplomityö

Energiamarkkinoiden vapautuminen on asettanut uusia vaatimuksia energiayhtiöiden päätöksentekijöille.

Sähkön hinta määräytyy pörssissä ja hinnan heilahtelu saattaa olla hyvinkin voimakasta.

Energia-yhtiöiden täytyy pystyä käyttämään hyväkseen hintojen heilahtelut voidakseen tae

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### [Information Model of an Electricity Procurement Planning System](#)

(2005) Tuominen, Tero

Helsinki University of Technology | Diplomityö

Tasevastaava (TV) toimii sangen turbulenteilla vapautuneilla energiamarkkinoilla, ja kantaa taloudellisen vastuun oman tasealueensa fyysisestä energiataseesta.

Kulutuksen ja tuotannon - hankinnan ja toimitusvelvoitteiden - välisen tasapainon ylläpitä

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### [Intraday liquidity management in gross settlement system as a coordination game](#)

(2005) Hellqvist, Matti

Helsinki University of Technology | Diplomityö

Keskuspankin ylläpitämä reaaliaikainen bruttomaksujärjestelmä (RTGS järjestelmä) on yleisin suurten maksujen katteensiirtoihin käytetty järjestelmä rakenne.

Se mahdollistaa liikepankkien ja muiden rahoituslaitosten välisten rahasiirtojen toteuttami

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### [Systemic Modeling of Hierarchical Software Development in a Distributed Enterprise](#)

(2005) Lehmusvirta, Jukka Sakari  
Helsinki University of Technology | Diplomityö

Matkapuhelinteollisuus on kehittynyt osaksi yhdentyvää digitaalista teollisuudenalaa, jossa tuotevalikoimalta vaaditaan uusiutumisenopeutta kilpailukyvyn säilyttämiseksi.

Kilpailullinen paine lyhentää tuotekehityssykliä on asettanut vaatimuksia tuotekehityksen

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### [Analysis of the Continental European Electricity Market under Liberalization](#)

(2005) Ahvenniemi, Rasmus  
Helsinki University of Technology | Diplomityö

The European Union aims at attaining efficiency improvements in the electricity sector through deregulation accompanied by market integration.

The increased interdependence of national electricity markets brought by integration inci

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### [Risk-informed Classification of Systems, Structures and Components in Nuclear Power Plants](#)

(2005) Männistö, Ilkka  
Helsinki University of Technology | Diplomityö

Säteilyturvakeskuksen viranomaisohjeiden mukaan riskitietoa on syytä käyttää ydinvoimalaitosten komponenttien ja järjestelmien turvallisuustärkeyden määrittämisessä.

Turvallisuusluokituksen tulee perustua laitteen tärkeyteen turvallisuuden suhteen.

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### [Efficiency Determinants of Paper Machine Wet-End Performance](#)

(2004) Välimäki, Tommi  
Helsinki University of Technology | Diplomityö

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### [Optimization algorithm for securities settlement](#)

(2004) Nyholm, Teemu  
Helsinki University of Technology | Diplomityö

The objective of this Master's thesis is to define an optimizing settlement algorithm for a net settlement process of the Helsinki Exchange securities settlement system -HEX Clear.

The net settlement process is a designated time net settlement (DNS) procedure which is

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### [Multicriteria Portfolio Analysis for Strategic Resource Allocation](#)

(2004) Mild, Pekka  
Helsinki University of Technology | Diplomityö

This thesis is concerned with the problem of choosing a subset of projects, a project portfolio, from a large set of multi-criteria proposals subject to scarce resources.

The overall value of each project is modelled through an additive weighting model, and the

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### [Time Series Analysis of Demand Patterns in Supply Chains](#)

(2004) Salmi, Laura  
Helsinki University of Technology | Diplomityö

Tässä diplomityössä tarkastellaan toimitusketjun kysyntätiedon analyysissä käytettäviä menetelmiä.

Pääpaino on aikasarja-analyysissä mutta myös muita hyödyllisiä menetelmiä esitellään.

Työn tarkoituksena on kehittää systemaattinen lähestymistapa kysynnän analyysiin ja poh

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### [Simulation of Nonlinear Risk Measures for Hedge Funds](#)

(2004) Vatanen, Kari  
Helsinki University of Technology | Diplomityö

The main function of the risk management is to ensure the operational continuity of a mutual fund in any market conditions.

An accurate risk measurement is the prerequisite for the risk management.

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### [Measurement as a tool for developing dependable software products](#)

(2004) Koskela, Mika Juhani  
Helsinki University of Technology | Diplomityö

In this work the usefulness of software metrics and measurement is studied from the software dependability viewpoint.

Basic concepts and terminology of software measurement and software dependability are

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### [Electricity Offer Risk Management](#)

(2004) Ilmoniemi, Mika  
Helsinki University of Technology | Diplomityö

The deregulation of electricity markets has changed the position of electricity trading companies.

Their long-standing customers have now the possibility to compete the companies and change their electricity suppliers.

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### [Short Term Inflow Forecasting in the Nordic Power Market](#)

(2004) Laukkanen, Antti  
Helsinki University of Technology | Diplomityö

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### [Robust Multicriteria Optimization of Project Portfolios](#)

(2004) Liesiö, Juuso  
Helsinki University of Technology | Diplomityö

Projektiportfolio-optimoinnissa tavoitteena on valita projektiehdokkaiden joukosta osajoukko projekteja (eli portfolio), jolla on maksimaalinen arvo resurssirajoitusten toteutuessa.

Usein projekteja arvioidaan monen kriteerin suhteen ja nämä kriteerikohtaiset suoritustas

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### [Systematic Management of Technical Intelligence in a Small High-Tech Company](#)

(2004) Mether, Max  
Helsinki University of Technology | Diplomityö

Gathering technical intelligence helps a company to stay up-to date with the status in both technology and the industry in general.

It is especially important in fields where technological development is rapid, and where cl

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### [Efficiency analysis for paper machine wet end performance](#)

(2004) Vapaakallio, Satu  
Helsinki University of Technology | Diplomityö

The purposes of this thesis are (1) to analyze the relative efficiency of paper machine wet end operations and (2) to clarify the connection between wet end chemistry and malfunction incidents.

The aggregate performance of a system depends on the performance of its weakest part

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### [Advanced Case Studies in Risk Management](#)

(2004) Porthin, Markus  
Helsinki University of Technology | Diplomityö

The word risk is used to describe a situation that involves a possibility of something undesired to happen. The systematic process of identifying, evaluating and reducing risks is usually referred to as risk management (RM).

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### [Market valuation of executive stock options](#)

(2003) Kuosa, Nuutti  
Helsinki University of Technology | Diplomityö

The number of firms with employee stock option schemes has increased rapidly in Finland. 90 percent of Helsinki Stock Exchange listed companies had such a scheme in the beginning of 2003. Latest financial research argues that employee stock options are less valuable for employ

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### [Performance evaluation of a subscriber database with queuing networks](#)

(2003) Uljas, Heikki  
Helsinki University of Technology | Diplomityö

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### [A multi-criteria tool for the selection of web-based education technology](#)

(2003) Riski, Tuomas  
Helsinki University of Technology | Diplomityö

Diplomityössä on mallinnettu verkko-opetusohjelmistojen vertailun ja valinnan helpottamiseksi verkko-opetusteknologian monikriteerinen valintatyökalu, jota Suomen virtuaaliyliopisto voi hyödyntää portaalinsa yhteyteen toteutettavassa päätöksenteon tukiohjelmistossa.

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### [Comparative Analysis of Operational Decision-Making at Chinese and Finnish Paper Mills](#)

(2003) Dietrich, Jaakko  
Helsinki University of Technology | Diplomityö

Diplomityön tavoitteena oli analysoida operatiivista päätöksentekoa Changshun ja Kymin paperitehtailla. Erityisesti työn tarkoituksena oli tunnistaa ja verrata päätöksentekokäytäntöjen kriittisiä osa-alueita ja eroja tehtaiden välillä valituissa ongelmatilanteissa.

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### [Forecasting the Term Structure of Interest Rates with Stochastic Models](#)

(2003) Beletski, Taras  
Helsinki University of Technology | Diplomityö

The objective of this thesis is to provide a life insurance company with a stochastic model for the term structure of interest rates.

The term structure of interest rates affects the structure of an optimal portfolio and the c

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### [Uses of Ordinal Preference Information in Interactive Decision Support](#)

(2003) Punkka, Antti  
Helsinki University of Technology | Diplomityö

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[Innovation Incentives in Enterprise Networks: A Game Theoretic Approach](#)

(2003) Jarimo, Toni

Helsinki University of Technology | Diplomityö

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[Output-Oriented Benchmarking of Product Platform Development](#)

(2003) Pelkonen, Jarno

Helsinki University of Technology | Diplomityö

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[Stochastic Optimization in Dynamic Asset and Liability Management](#)

(2003) Lågland, Tomas

Helsinki University of Technology | Diplomityö

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[Comparative analysis of risk management strategies for electricity retailers](#)

(2002) Ojanen, Otso

Helsinki University of Technology | Diplomityö

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[Portfolio Management of Strategic Investments in Metal Products Industry](#)

(2002) Martikainen, Juha

Helsinki University of Technology | Diplomityö

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[Bandwidth Derivatives under Network Arbitrage](#)

(2002) Arte, Kai

Helsinki University of Technology | Diplomityö

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Teknologisen kehityksen ennakointi on tärkeä osa kansallisten teknologiaohjelmien strategista suunnittelua. Suurista epävarmuuksista johtuen ennakointi on kuitenkin haastavaa, ja siksi sen tueksi tarvitaan toimintamalleja ja työkaluja.

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Biotekniikkaan, erityisesti sen lääketeollisiin sovelluksiin, kohdistuu merkittäviä odotuksia.

Viime vuosina biolääkeyritysten määrä onkin lähtenyt nopeaan kasvuun, mutta merkittävät tuotekehitysriskit tekevät yritysten menestyksestä epävarmaa.

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