

# Theses

## Licentiate of Science in Technology

### 2000

*Cristescu, Razvan*

Applications of independent component analysis in telecommunications and image processing

*Malaroiu, Simona*

Applications of independent component analysis

*Vesanto, Juha*

Using SOM in data mining

### 2001

*Hakulinen, Aimo*

Riippulukkoleimojen automatisoitu visuaalinen laaduntarkastus (Automated visual quality control of padlock stamps)

## Master of Science in Technology

### 2000

*Aksela, Matti*

Handwritten character recognition: A palm-top implementation and adaptive committee experiments

*Engdahl, Kim*

Avainhallinto usean korttien liikkeellelaskijan yleisöpuhelinmaksamisessa (Key management in public payphone payment systems with multiple card issuers)

*Eriksson, Mika*

Ortokuvien ja rasterikarttojen Internet jakelu (Internet distribution of orthoimages and raster maps)

*Haanaho, Ismo*

Frequency estimation of radiosonde signal

*Inki, Mika*

Topographic independent component analysis: Theory and applications

*Koivulainen, Jani*

Implementation of the type system for OTNSDL, an object-oriented SDL-variant

*Laakso, Sami*

Implementation of content-based WWW image search engine

*Leppänen, Jaakko*

A uniform web profiling system

*Lybeck, Christer*

Routing of partially protected routes in a transmission network management system

*Mikkeli, Petri*

Metsien kaukokartoitus ERSI SAR -tutkakuvilla (Remote sensing of forests using ERSI SAR -radarimages)

*Mikkola, Topi*

Algorithm library for large scale vehicle routing

*Mäkinen, Tommi K.*

Intelligent supplementary services for electronic information browsers

*Nousiainen, Sami*

Simulation methods for UMTS network

*Ostrovskij, Jori*

Software unit testing

*Pantsar, Tuomas*

Detection of surface cracks and pipe joints in digital sewer images

*Parviainen, Jukka*

Data mining for finding surface defects in steel strips

*Pirskanen, Janne*

Automaattisen viantunnistusjärjestelmän kehittäminen (Developing automatic recognition of hardware failures)

*Pitkänen, Anna*

Methods for improving spectrum efficiency in fixed radio networks

*Puittinen, Mikael*

Implementing project management tools in a world wide web based engineering data management system

*Rinta-Koski, Olli-Pekka*

Calculating margin requirements for derivative clearing accounts

*Saarela, Antti*

Paperin ja metallin pintavikakuvien analysointi (Analysis of surface defects in paper and metal)

*Siponen, Markus*

Automaattisia jälkitulkintamenetelmiä hierarkisen tietoaineiston tutkimiseen itseorganisoivan kartan avulla (Post processing tools for self-organising map and hierarcial data structures)

*Siren, Juuso*

Adaptiivinen menetelmä kuvalevystä luetun röntgenkuvan parantamiseen (Adaptive image enhancement method for CR images)

*Syrjälähti, Mikko*

Analyzing organizational emergence with self-organizing maps

*Venna, Jarkko*

Menetelmä moniulotteisen tietoaineiston kasaumarakenteiden havainnollistamiseksi värien avulla (A method for visualizing the cluster structure of multidimensional data using colours)

## 2001

*Ahola, Jussi*

Analysis of mechanical properties of hot rolled steel strips using SOM-based data mining

*Alaluusua, Juha*

Adaptive multi-rate wideband speech codec in 3G media gateway

*Bäckström, Tom*

Development of and analysis environment for clinical analysis of continuous speech

*Girdziusas, Ramunas*

Discriminative on-line recognition of isolated handwritten characters

*Halinen, Jussi*

Algorithm for the correction of ECG baseline

*Honkela, Antti*

Nonlinear switching state-space models

*Korhonen, Ilkka*

Porting operating system to mobile communication device: case study using EPOC operating system and ARM processor

*Nirhola, Marko*

Modeling of speech coding effects in an acoustic echo canceller of a 3G mobile network

*Parviainen, Olli*

Ennakoivaan simulointiin perustuva panostuotannon optimointi (Batch production optimization by evolutionary computation and predictive simulation)

*Peltonen, Jaakko*

Self-organizing maps in learning metrics

*Raiko, Tapani*

Hierarchical nonlinear factor analysis

*Reunanen, Juha*

Feature selection for classification of metal strip surface defects

*Sundell, Jonne*

Implementing tandem free operation over an IP based network