

Courses

Courses given by the Laboratory of Computer and Information Science.

Spring Semester 2006

Code	Course	Lecturer	Course Assistant
T-61.124	Special Project in Computer Architecture	S. Haltsonen	A. Sorjamaa
T-61.152	Seminar on Computer and Information Science	A. Honkela	
T-61.3010	Digital Signal Processing and Filtering	O. Simula	J. Parviainen, T. Similä, A. Sorjamaa
T-61.3020	Principles of Pattern Recognition	E. Oja	T. Raiko, M. Aksela
T-61.3030	Principles of Neural Computing	K. Raivio	J. Venna, M. Aksela
T-61.5010	Information Visualization	K. Puolamäki	A. Ukkonen
T-61.5020	Statistical Natural Language Processing	T. Honkela, T. Hirsimäki	S. Virpioja
T-61.5040	Learning Models and Methods	P. Pajunen	V. Viitaniemi
T-61.5070	Computer Vision	J. Laaksonen	R. Rautkorpi
T-61.5090	Image Analysis in Neuroinformatics	R. Vigário, J. Särelä	
T-61.6020	Special Course II: <i>Reinforcement Learning – Theory and Applications</i>	V. Kōnönen	
T-61.6030	Special Course III: <i>Independent Component Analysis</i>	J. Karhunen	M. Harva
T-61.6060	Special Course VI: <i>Data Analysis and Environmental Informatics</i>	J. Hollmén, M. Sulkava	H. Heikinheimo
T-61.6070	Special Course in Bioinformatics I: <i>Computational Modeling Methods in Bioinformatics</i>	S. Kaski	M. Oja

Fall Semester 2006

Code	Course	Lecturer	Course Assistant
T-61.2010	From Data to Knowledge	E. Oja, H. Mannila, J. Seppänen	U. Remes, J. Parviainen
T-61.3040	Statistical Signal Modeling	P. Pajunen	V. Viitaniemi
T-61.5030	Advanced Course in Neural Computing	J. Karhunen	J. Peltonen
T-61.5080	Signal Processing in Neuroinformatics	R. Vigário, J. Särelä	
T-61.5100	Digital Image Processing	J. Laaksonen	M. Sjöberg
T-61.6010	Special Course I: <i>Gaussian Processes for Machine Learning</i>	A. Honkela	S. Hanhijärvi
T-61.6040	Special Course IV: <i>Variable Selection for Regression</i>	A. Lendasse	E. Liitiäinen
T-61.6050	Special Course V: <i>Data Mining in Telecommunication</i>	K. Raivio	M. Multanen
T-61.6080	Special Course in Bioinformatics II: <i>Data Integration and Fusion in Bioinformatics</i>	J. Nikkilä	L. Lahti
T-61.6090	Special Course in Language Technology: <i>Finnish-Swedish Machine Translation Challenge</i>	T. Honkela M. Creutz	
T-61.6900	Individual Studies: <i>Reading Circle on Bayesian Theory</i>	S. Kaski	

Spring Semester 2007

Code	Course	Lecturer	Course Assistant
T-61.152	Seminar on Computer and Information Science	A. Honkela	
T-61.2020	From Data to Knowledge, Exercise Project		J. Parviainen
T-61.3010	Digital Signal Processing and Filtering	O. Simula	J. Parviainen, N. Reyhani T. Similä
T-61.3020	Principles of Pattern Recognition	E. Oja	T. Raiko, M. Aksela
T-61.3030	Principles of Neural Computing	K. Raivio, M. Koskela	M. Pöllä, M. Aksela
T-61.5010	Information Visualization	K. Puolamäki	A. Ukkonen
T-61.5020	Statistical Natural Language Processing	T. Honkela, T. Hirsimäki, M. Creutz	S. Virpioja
T-61.5040	Learning Models and Methods	P. Pajunen	V. Viitaniemi
T-61.5050	High-Throughput Bioinformatics	J. Nikkilä	M. Oja
T-61.5070	Computer Vision	J. Laaksonen	M. Sjöberg
T-61.5090	Image Analysis in Neuroinformatics	R. Vigário, J. Särelä	
T-61.6020	Special Course II: <i>Machine Learning: Basic Principles</i>	K. Puolamäki	M. Korpela
T-61.6030	Special Course III: <i>Introductory Elements of Functional Data Analysis</i>	F. Corona A. Lendasse	E. Liitiäinen
T-61.6060	Special Course VI: <i>Decision Support with Data Analysis</i>	M. Sirola	G. Lampi
T-61.6070	Special Course in Bioinformatics I: <i>Modeling of Biological Networks</i>	S. Kaski	A. Klami

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T-61.2010	From Data to Knowledge	E. Oja, H. Mannila, J. Seppänen	U. Remes, V. Viitaniemi
T-61.3040	Statistical Signal Modeling	J. Peltonen	V. Viitaniemi
T-61.3050	Machine Learning: Basic Principles	K. Puolamäki	A. Ukkonen
T-61.5060	Algorithmic Methods of Data Mining	H. Mannila, K. Puolamäki	N. Vuokko
T-61.5080	Signal Processing in Neuroinformatics	R. Vigário	J. Ylipaaval- niemi
T-61.5100	Digital Image Processing	J. Laaksonen	M. Sjöberg
T-61.5110	Modeling Biological Networks	S. Kaski, P. Auvinen	A. Klami
T-61.5120	Computational Genomics	S. Hautaniemi	K. Nousiainen
T-61.5130	Machine Learning and Neural Networks	J. Karhunen	M. Pöllä
T-61.6040	Special Course IV: <i>Information Networks</i>	G. C. Garriga	N. Tatti
T-61.6050	Special Course V: <i>Nonlinear Dimensionality Reduction</i>	A. Lendasse F. Corona	K. Nybo
T-61.6080	Special Course in Bioinformatics II: <i>Prior Knowledge and Background Data in Computational Inferenceproteomic and Metabolic Data</i>	J. Nikkilä	L. Lahti
T-61.6090	Special Course in Language Technology: <i>Emergence of Cognition, Communication and Language: from Humans to Machines</i>	K. Lagus T. Honkela	O. Kohonen

