

SUPPLEMENT TO THE DEGREE CERTIFICATE ISSUED IN LAPPEENRANTA 26.09.2008

Martynov Ivan

120482-165E

Decree: Decree 2005
 Degree: Master of Science
 Degree programme: Information Technology
 Major subject: Technomathematics
 Minor subject: Information Technology



Accepted to complete the degree of Master of Science degree: 29.03.2006
 Date of graduation: 26.09.2008

MASTER'S THESIS/ INFORMATION TECHNOLOGY:

Name: Computing the persistent homology of range images with alpha shapes
 Accepted: 10.09.2008 Grade: 4 Credits: 30.00 cr
 Examiner(s): Haario Heikki and Kauranne Tuomo

COMPLETED COURSES

Basic studies		Credits	Grade	Date
Ki7119000	Academic Seminar for International Programs	6.00 cr	H	17.09.2007
Ti5414300	Differential Equations	5.00 cr	H	14.02.2008
Ko4000300	Introduction to M.Sc. Studies	1.00 cr	H	23.11.2006
Ti5414700	Linear Algebra and Normed Spaces	3.00 cr	4	24.10.2006
Ti5414400	Logic and Discrete Methods	4.00 cr	4	16.05.2007
Ti5319500	Research Methods	3.00 cr	1	21.12.2006
Total number of credits		22.00 cr		

Major subject: Technomathematics		Credits	Grade	Date
BM20A3800	Advanced Mathematical Methods	5.00 cr	4	06.08.2008
Ti5417800	Case Study Seminar	6.00 cr	H	30.05.2007
BM20A3400	Design of Experiments	3.00 cr	3	06.05.2008
Ti5416400	Discrete Optimization	4.00 cr	4	15.05.2007
Ti5416700	Fuzzy Engineering	6.00 cr	3	11.05.2007
Ti5416600	Fuzzy Sets and Fuzzy Logic	6.00 cr	5	20.12.2006
K1	Maturity test	0.00 cr	H	22.08.2008
Ti5414200	Simulation	4.00 cr	4	16.11.2006
BM20A3000	Statistical Analysis in Modelling	4.00 cr	3	11.02.2008
Ti5414100	Statistics II	3.00 cr	5	28.03.2007
1137D	Master's Thesis/ Information Technology	30.00 cr	4	10.09.2008
Total number of credits		71.00 cr		
Weighted mean		3.89		
Overall grade		Very good		

Minor subject: Information Technology		Credits	Grade	Date
CT20A6300	Evolutionary Algorithms	5.00 cr	4	20.05.2008

CT20A2500	Object-Oriented Programming Techniques	5.00 cr	4	09.05.2008
CT30A7000	Parallel Computing	6.00 cr	4	01.12.2007
Ti5216000	Pattern Recognition	7.00 cr	4	09.08.2007
Total number of credits		23.00 cr		
Weighted mean		4.00		
Overall grade		Very good		

Elective studies

		Credits	Grade	Date
Ki7110401	Activation of English Skills	3.00 cr	H	04.05.2007
Ki7189100	Finnish for Foreigners 1	2.00 cr	5	10.01.2007
Ki7189200	Finnish for Foreigners 2	2.00 cr	3	18.01.2007
FV15A1200	French 1	3.00 cr	H	11.01.2008
BM20A9000	Mathematics of Epidemiology	3.00 cr	5	01.03.2008

Total number of credits 13.00 cr

Summary of completed studies

Total number of credits 129.00 cr
 Weighted mean 3.87
 Overall grade Very good



Jaana Friari
 Student Affairs Officer



Courses completed by 31 July 2005 are measured in credit units (cu). Starting 1 August 2005, courses are measured in ECTS credits (cr). The studies are shown in their original scope. One credit unit refers to an average of 40 hours and an ECTS credit to 26 hours full-time work by the student, including lectures, case studies, term papers, homework and examinations.

The major and minor subjects are given an overall grade on the scale excellent, very good, good, very satisfactory, satisfactory or passed.

The numbers corresponding to the grades are 5 = excellent, 4 = very good, 3 = good, 2 = very satisfactory, 1 = sufficient and H = passed.

The weighted grade averages only include courses graded with a number.

The level of proficiency in the other official language of Finland (Finnish or Swedish, whichever is not the student's native language) is graded good (H) or satisfactory (T).

Substituted studies in the other official language are graded H = passed.