Degree certificate

Albert-Ludwigs-Universität Freiburg

UNI FREIBURG

Technische Fakultät

Farooq Ahmed Zuberi

born on December 1, 1990

completed the degree program

Master of Science (M. Sc.)

in

Computer Science

on April 4, 2017

with the final grade of

excellent (1.4)

and has earned 120 ECTS credits.

Master's Thesis: excellent (1.5)

Title: CloudSeg: Semantic Segmentation of 3D Point Clouds Using Deep Learning

Freiburg i. Br., May 22, 2017

Prof. Dr. Ulrich Egert

Chair of the Examination Committee

ID 4174785

EXA 257s(e) (03/2017)

Albert-Ludwigs-Universität Freiburg

Technische Fakultät

Transcript of records

for

Farooq Ahmed Zuberi

born on December 1, 1990

Degree program: Master of Science (M. Sc.), Computer Science, Major, 2011

	Grade/Status	Credits	Remark
Mandatory Modules M.Sc. Informatik (PO-Version 2011)	1.4	70	SS 2017
Master Module	1.5	30	SS 2017
Master's Thesis Topic: CloudSeg: Semantic Segmentation of 3D Point Clouds Using Deep Learning	1.5	25	WS 2016/17
Presentation of the Master's Thesis	BE	5	SS 2017
Core field in Computer Science	1.7	6	SS 2015
Grundlagen der Künstliche Intelligenz / Foundations of Artificial Intelligence - Examination	1.7	6	SS 2015
Master project	1.0	16	WS 2015/16
Project	1.0	16	WS 2015/16
Laboratory	BE	6	WS 2014/15
Laboratory in the research field "Machine Learning"	TRE	6	WS 2014/15
Deepening in Computer Science	1.8	12	WS 2016/17
Maschinelles Lernen / Machine Learning - Examination	2.0	6	WS 2016/17
Systeminfrastruktur für Data Science / System Infrastructure for Data Science - Examination	1.7	6	WS 2014/15
Elective Modules Master of Science in Computer Science	1.2	50	SS 2016
Application Area Biology	1.2	18	SS 2016

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	Grade/Status	Credits	Remark
Computational Neuroscience	1.2	18	SS 2016
Computational Neuroscience- Modulteil 1	BE	4	SS 2016
Neuroscience - The Basics: Basic and Systems Neurobiology - Studienleistung	BE	4	SS 2016
Computational Neuroscience - Modulteil 2	1.0	7	SS 2016
Models of Neurons and Networks - Prüfung	1.0	7	SS 2016
Computational Neuroscience - Modulteil 3	BE	5	SS 2016
Simulation of Biological Neuronal Networks- Studienleistung	BE	5	SS 2016
Computational Neuroscience - Modulteil 4	2.0	2	SS 2016
Current Research Topics in Systems Neuroscience (S1)	2.0	2	SS 2016
Current Research Topics in Systems Neuroscience- Prüfung	2.0		SS 2016
Specialization in M.Sc. Computer Science PO-Version 2011	1.3	32	SS 2015
Kognitive technical Systems - Specialization	1.3	32	SS 2015
Seminar in the research field "Foundations of Artificial Intelligence"	2.0	4	SS 2015
Seminar in the research field "Social Robotics and Human-Robot Interaction"	0.0	4	SS 2015
Kognitive technical Systems - Specialization in Computer Science I	1.3	12	WS 2014/15
Handlungsplanung / Artificial Intelligence Planning - Examination	1.7	6	WS 2014/15

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	Grade/Status	Credits	Remark
Mensch-orientierte Robotik / Human-Oriented Robotics - Examination	1.0	6	WS 2014/15
Kognitive technical Systems - Specialization in Computer Science II	1.3	12	SS 2015
Einführung in die Mobile Robotik / Introduction to Mobile Robotics - Examination	1.3	6	SS 2015
Statistische Mustererkennung / Statistical Pattern Recognition - Examination	1.3	6	SS 2015

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for

Farooq Ahmed Zuberi

born on December 1, 1990

Overall ECTS credits:	120
Final Grade for Degree Program:	1.4
Completion of Degree Program:	April 4, 2017

Freiburg i. Br., May 22, 2017

Prof. Dr. Ulrich Egert

Chair of the Departmental Examination Committee

BE passed TRE regular attendance confirmed

Transcript of Records – Explanations

According to the Examination Regulations of the University of Freiburg for the Master's Program in "Computer Science" – Academic regulations 2011

1. Information's and abbreviations

„Grade/Status"	Note value:	Grading of the Modules/Examinations
	BE:	pass; Modules, which are credit-only and are graded as "BE" if successfully completed.
„ECTS-Points"	Point value:	The sum of the credit for the course examined is given in ECTS (European Credit Transfer and Accumulation System). ECTS-Points are awarded for each Module, which approximately correspond to the scope of the course in each case. 1 ECTS-Point stands for 30 working hours
„Grader"	Name:	The Examination Committee appoints the graders of an Examination/ a Module.
„Remark"	Accreditation:	A period of study completed at another university or other equivalent institute of tertiary education, which is acknowledged as being equivalent to this program.

2. Grading of Examinations/Modules and the Bachelor's Thesis

1.0/1,3	very good/ excellent	an excellent level of achievement
1.7/2.0/2.3	good	a level of achievement lying considerably above the average requirements
2.7/3.0/3.3	satisfactory	a level of achievement fulfilling the average requirements
3.7/4.0	sufficient	a level of achievement which, despite certain deficiencies, still fulfils the requirements

3. Calculation of the Module Grade

The module grade is build from the ECTS-point weighted average (weighted arithmetic mean) of the partial examinations.

4. AwardedFinal Grades

With an average of up to 1.5:	excellent/very good
With an average of 1.6 to 2.5:	good
With an average of 2.6 to 3.5:	satisfactory
With an average of 3.6 to 4.0:	sufficient

5. Overall assessment „with distinction"

If the grade for all the modules is 1.3 or better, the overall assessment of "with distinction" will be awarded.