Rheinische Friedrich-Wilhelms-Universität Bonn



Bonn-Aachen International Center for Information Technology

Master Programme

Life Science Informatics (LSI)

Notification

Topic of Master's Thesis

Last/first name: _	Shreya Kap	oor				
Matrikel #: 320	0588	E-Mail:	s0shkapo@uni-bonn.de			
Address:4	Address: 402, Am Jesuitenhof 1, Bonn 53117					
requests the follo	wing topic for her/	his Master's Tl	nesis in Life Science Informatics:			
Extracting most predictive subgraphs from models of human brain						
connectivit	ty					
1 st reviewer: Prof. Dr. Thomas Schultz						
2 nd reviewer: Prof. Dr. Holger Fröhlich						
Short description	of the envisaged	computer scier	nce content of thesis:			
Classification based on graphs derived from MRI scans to identify						
subregions in the brain that show differences in connectivity between						
different subje	ects. The goal	is to derive	the most explanatory			
subgraph from	m whole-brain	connectivity	that has high discriminatory power			
and also enco	odes important	t biological p	properties.			

Short description of the envisaged life science content of thesis: ———————————————————————————————————						
The subgraphs derived from the classification problem can help identify						
ROIs and connections in the brain important for classification of subjects.						
Connectomics remains the basis of the graphical representations;						
one aim is to be able to	backtrack results to the cor	responding				
fiber tracts and study them in detail.						
Begin (date): 22.05.2020						
The thesis must be delivered within 6 months after the above date, unless this period has been explicitly prolonged by the examination board. A written application for prolongation is possible. If accepted, the deadline for submission may be extended up to 6 weeks.						
	Shre	yntajoog				
1 st reviewer 's signature	Studer	nt's signature				
2 nd reviewer 's signature						
Is the topic of the Master Thesi (mandatory information)?	s potentially subject to intellectu	al property rights issues				
Yes	No Property No.					
Date of deadline for submission	of Master's thesis:					
Approved:						
Арргоveu.						
Prof. J. Bajorath Head of the LSI Exam Board	Prof. M. Hofmann-Apitius Member of the LSI Exam Board	Prof. T. Berlage Member of the LSI Exam Board				
All mandatory courses have been successfully completed						
Full credit points in all modules have been obtained						

Addendum to the Notification about the Topic of the Master's Thesis

The above mentioned Master's Thesis will be carried out at an institution outside of the University of Bonn.

Name of the Institute		
Address of the Institute		
The contact person at the Inst	itute at which the Master's Thesi	s is carried out
is:		
Phone:		
Fax:		
e-mail:		
Approved:		
Prof. J. Bajorath Head of the LSI Exam Board	Prof. M. Hofmann-Apitius Member of the LSI Exam Board	Prof. T. Berlage Member of the LSI Exam Board