Other Dissertation participants

PCM687   Zarathustra Amadeus Goertzel

Activity	Type of exam	Fixed subjects	Administrative office	ECTS points
NDAA93062E	Thesis		Datalogisk Institut	30

Contract No.	68298
Contract status	Klar til godkendelse
Dissertation start	02.06.2017
Location - only students at IVA	
Language	engelsk
Open to public	Ja
Annex open to public	Ja
Externaly prepared	Nej
External partners	
Residence abroad (months). Check local guidance	0
Hand in deadline	
Hand in date	

Title	Offer Networks Simulation and Dynamics
Other information - Cf. local guidance	
Statement of dissertation	I will run experiments simulating automated transaction suggestions in a moneyless market. The set-up is a network where users upload pairs of tasks they will offer in exchange for requested tasks, which has been called an offer network. I will use either graph or SAT based optimization to find potential transactions, which can be cycles among more than two users. Then I will analyze the network dynamics and performance. If time permits, more features will be experimented with. Additional Information: An offer network instance can be represented as a graph where tasks are nodes and directed links represent (offer, request) pairs, in which case potential transactions are cycles. Thus finding optimal transaction is a maximum vertex cycle problem. The problem can also be framed in terms of weighted boolean optimization.

Supervisor name	Administrative office	Priority
Christian Wulff-Nilsen, koolooz@di.ku.dk, responsible supervisor, 75%		1
Christina Lioma, c.lioma@di.ku.dk, internal co-supervisor, 25%		2

Faculty / institution   Supervisor