



# INDIVIDUELL STUDIEPLAN I FORSKARUTBILDNINGEN

Senast uppdaterad: 2008-12-12

## DEL 1. ADMINISTRATIVA UPPGIFTER

### Personuppgifter

<i>Doktorandens namn</i>	Aneta Vulgarakis
<i>Personnummer</i>	821105-4328
<i>Institution</i>	IDE - Institutionen för Datavetenskap och Elektronik
<i>Datum då forskarutbildningen påbörjades</i>	2006-10-01
<i>Forskarutbildningsämne</i>	Datavetenskap
<i>Huvudhandledare</i>	Ivica Crnkovic, ivica.crnkovic@mdh.se
<i>Biträdande handledare</i>	Paul Pettersson, paul.pettersson@mdh.se Cristina Seceleanu, cristina.seceleanu@mdh.se
<i>Planeringssamtal med doktoranden har hållits</i>	<p>2006-10-18 Ivica Crnkovic, Séverine Sentilles, Aneta Vulgarakis          2006-10-25 Ivica Crnkovic, Séverine Sentilles, Aneta Vulgarakis          2006-12-11 Ivica Crnkovic, Séverine Sentilles, Aneta Vulgarakis          2007-03-19 Ivica Crnkovic, Aneta Vulgarakis          2007-03-29 Ivica Crnkovic, Paul Pettersson, Cristina Seceleanu, Aneta Vulgarakis          2007-04-13 Ivica Crnkovic, Séverine Sentilles, Aneta Vulgarakis          2007-06-04 Ivica Crnkovic, Séverine Sentilles, Aneta Vulgarakis          2007-06-18 Ivica Crnkovic, Paul Pettersson, Cristina Seceleanu, Aneta Vulgarakis          2007-09-11 Paul Pettersson, Cristina Seceleanu, Aneta Vulgarakis          2007-09-12 Ivica Crnkovic, Séverine Sentilles, Aneta Vulgarakis          2007-10-10 Ivica Crnkovic, Paul Pettersson, Cristina Seceleanu, Aneta Vulgarakis          2007-11-14 Paul Pettersson, Cristina Seceleanu, Aneta Vulgarakis          2007-11-20 Paul Pettersson, Cristina Seceleanu, Aneta Vulgarakis          2007-11-21 Cristina Seceleanu, Aneta Vulgarakis          2007-11-29 Paul Pettersson, Cristina Seceleanu, Aneta Vulgarakis          2007-12-05 Paul Pettersson, Cristina Seceleanu, Aneta Vulgarakis          2007-12-11 Paul Pettersson, Cristina Seceleanu, Aneta Vulgarakis          2008-01-24 Paul Pettersson, Cristina Seceleanu, Aneta Vulgarakis          2008-01-30 Paul Pettersson, Cristina Seceleanu, Aneta Vulgarakis          2008-02-14 Paul Pettersson, Cristina Seceleanu, Aneta Vulgarakis          2008-02-25 Cristina Seceleanu, Aneta Vulgarakis          2008-04-10 Ivica Crnkovic, Séverine Sentilles, Aneta Vulgarakis          2008-05-08 Paul Pettersson, Cristina Seceleanu, Aneta Vulgarakis          2008-05-20 Paul Pettersson, Cristina Seceleanu, Aneta Vulgarakis          2008-05-22 Paul Pettersson, Cristina Seceleanu, Aneta Vulgarakis          2008-06-04 Paul Pettersson, Cristina Seceleanu, Aneta Vulgarakis          2008-06-10 Paul Pettersson, Cristina Seceleanu, Aneta Vulgarakis          2008-06-19 Ivica Crnkovic, Paul Pettersson, Cristina Seceleanu, Aneta Vulgarakis          2008-07-14 Cristina Seceleanu, Aneta Vulgarakis          2008-09-19 Paul Pettersson, Cristina Seceleanu, Aneta Vulgarakis          2008-09-25 Ivica Crnkovic, Paul Pettersson, Cristina Seceleanu, Aneta Vulgarakis          2008-09-26 Paul Pettersson, Cristina Seceleanu, Aneta Vulgarakis          2008-10-07 Cristina Seceleanu, Aneta Vulgarakis          2008-11-19 Paul Pettersson, Cristina Seceleanu, Aneta Vulgarakis          2008-11-27 Paul Pettersson, Cristina Seceleanu, Aneta Vulgarakis</p>

	2008-12-03 Ivica Crnkovic, Paul Petersson, Cristina Seceleanu, Aneta Vulgarakis 2008-12-08 Paul Petersson, Cristina Seceleanu, Aneta Vulgarakis
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## Finansiering

<i>Doktorand vid MdH (DTJ)</i>	Mälardalens Högskola, Progress research centre
<i>Finansieringsplan specat per tidsperiod</i>	Autumn 2006-2011 financed by Progress Research Centre

## Examen

<i>Licentiatexamen</i>	Ja, planerad till: vt 2009 Fodrad poäng inom kursbundna studier: 30 Fodrad poäng inom avhandlingsarbete : 50 Examensbeteckning: teknologie
<i>Doktorsexamen</i>	Ja, planerad till: vt 2011 Fodrad poäng inom kursbundna studier: 50 Fodrad poäng inom avhandlingsarbete : 110 Examensbeteckning: teknologie

## Aktivitet för hela forskarutbildningen

		<i>Fullgjord del av examen (%)</i>		<i>Aktivitetsgrad för forskarutbildningen (%)</i>			<i>Institutionstjänstgöring eller liknande (%)</i>		
		<i>Planerad</i>	<i>Faktisk</i>	<i>Planerad</i>		<i>Faktisk</i>	<i>Planerad</i>		<i>Faktisk</i>
2006	ht	10	10	ht	80	80	ht	20	20
2007	vt	20	20	vt	80	80	vt	20	20
	ht	30	27	ht	80	80	ht	20	20
2008	vt	40	35	vt	80	80	vt	20	20
	ht	50	43	ht	80	80	ht	20	20
2009	vt	60		vt	80		vt	20	
	ht	70		ht	80		ht	20	
2010	vt	80		vt	80		vt	20	
	ht	90		ht	80		ht	20	
2011	vt	100		vt	80		vt	20	

Ingen avvikelse från planerad aktivitet

## Kurser i forskarutbildningen

<i>Planerade kurser</i>	<i>Tillgodosäkrade samt avklarade kurser</i>
Modelling, Specification, and Verification of Distributed Systems 5pts	System Software spring 2005 5pts Distributed Computer Systems spring 2005 5 pts PhD school autumn 2006 3pts Advanced cbse spring 2007 5pts Formal languages and finite automata 5pts Research planning spring 2007 3pts Software Engineering spring 2007 3 pts Research methodology autumn 2007 5pt Progress course autumn 2006 5pts

## DEL 2. PLANERING AV FORSKARUTBILDNINGEN

### Plan för avhandlingsarbetet

<p><i>Beskrivning av forskningsuppgift och inriktning</i></p> <p>Identification and specification of component model(s) for embedded systems is a significant part of the grand PROGRESS project. Since the domain of embedded systems includes a large variety of systems and requirements, there is a need for different component models that provide support for providing solutions that meet these requirements. There is a challenge to identify a Progress component model that addresses these requirements. The goal of the research includes enriching the model with a general resource usage framework which will provide information about the resource allocation within the Progress components and the composed system itself.</p>
<p><i>Detaljerad beskrivning av planerat avhandlingsarbete det närmaste året</i></p> <p>Building CBD framework          Building a component model for Embedded Systems          Building Component Based Resource Usage Framework for Embedded Systems modeling and analysis          Defining the semantics for the component model</p>
<p><i>Fullgjorda moment /avvikelser från planering och orsak till detta</i></p> <p>published papers:</p> <p>A Component Model Family for Vehicular Embedded Systems, Tomas Bures, Jan Carlson, Séverine Sentilles, Aneta Vulgarakis, The Third International Conference on Software Engineering Advances, IEEE, Sliema, Malta, October, 2008</p> <p>A Component Model for Control-Intensive Distributed Embedded Systems, Séverine Sentilles, Aneta Vulgarakis, Tomas Bures, Jan Carlson, Ivica Crnkovic, Proceedings of the 11th International Symposium on Component Based Software Engineering (CBSE2008), p 310-317, Springer Berlin, Karlsruhe, Germany, Editor(s): Michel R.V. Chaudron and Clemens Szyperski, October, 2008</p> <p>Embedded Systems Resources: Views on Modeling and Analysis, Aneta Vulgarakis, Cristina Secleanu, 1st IEEE International Workshop On Component-Based Design Of Resource-Constrained Systems (CORCS 2008), IEEE CS, Turku, Finland, July, 2008</p> <p>A Classification Framework for Component Models, Ivica Crnkovic, Michel Chaudron (Technical University Eindhoven), Séverine Sentilles, Aneta Vulgarakis, Proceedings of the 7th Conference on Software Engineering and Practice in Sweden, Göteborg, Sweden, October, 2007</p> <p>A Model-Based Framework for Designing Embedded Real-Time Systems, Séverine Sentilles, Aneta Vulgarakis, Ivica Crnkovic, Proceedings of the Work-In-Progress (WIP) track of the 19th Euromicro Conference on Real-Time Systems (ECRTS 2007), Pisa, Italy, July, 2007</p> <p>REMES: A Resource Model for Embedded Systems, Cristina Secleanu, Aneta Vulgarakis, Paul Pettersson, MRTC report ISSN 1404-3041 ISRN MDH-MRTC-232/2008-1-SE, Mälardalen Real-Time Research Centre, Mälardalen University, October, 2008</p> <p>ProCom - the Progress Component Model Reference Manual, version 1.0, Tomas Bures, Jan Carlson, Ivica Crnkovic, Séverine Sentilles, Aneta Vulgarakis, MRTC report ISSN 1404-3041 ISRN MDH-MRTC-230/2008-1-SE, Mälardalen Real-Time Research Centre, Mälardalen University, June, 2008</p> <p>Progress Component Model Reference Manual - version 0.5, Tomas Bures, Jan Carlson, Ivica Crnkovic, Séverine Sentilles, Aneta Vulgarakis, MRTC report ISSN 1404-3041 ISRN MDH-MRTC-225/2008-1-SE, Mälardalen Real-Time Research Centre, Mälardalen University, April, 2008</p> <p>Towards Component Modelling of Embedded Systems in the Vehicular Domain, Tomas Bures, Jan Carlson, Séverine Sentilles, Aneta Vulgarakis, MRTC report ISSN 1404-3041 ISRN MDH-MRTC-226/2008-1-SE, Mälardalen Real-Time Research Centre, Mälardalen University, April, 2008</p>

*Planerad utformning av avhandlingen*

Planned Licentiate thesis in June 2009.

### Plan för handledning

*Omfattning*

Continuous supervision and common work with the supervisors.

*Tillgänglighet*

Continuous availability on daily bases;  
monthly discussions planned with all supervisors

*Former för handledning*

Contact via phone, e-mail, personal meetings, etc

### Forskarutbildningens innehåll

*Pedagogisk utbildning och annan utbildning*

Involvement in teaching and development of courses. Planned training by attending a pedagogical course.

*Forskningsetik*

Attended Research methodology course

*Vetenskapsteori och kunskapsteori*

Attended Research methodology course

*Förmåga att använda relevanta IT-verktyg*

Educated in Computer Science

*Projektledning*

Attended a Software Engineering Course that includes Project management

*Forskningsfinansiering*

Attended PhD school course

*Samarbetsförmåga*

High abilities obtained during hard training in the schools

*Språkfärdighet på svenska och engelska*

Studying Swedish, Excellent proficiency in English

*Miljöaspekter inom utbildningen*

According to standards and policies of the university

*Kommunikation med ickespecialister*

Planned as a part of research

*Förmåga att arbeta interdisciplinärt*

Attended Research Methodology Course

*Kännedom om karriärvägar utanför högskolan*

Planned as a part of research

*Arbetsplats och materiella resurser*

According to standards and policies of the university

Övrigt

Efter att du läst färdigt ISP:n ovan, kan du stänga det här fönstret och godkänna ISP:n genom att klicka på "Skicka till Studierektorn"-ikonen (✉) som finns bredvid namnet på doktoranden på din startsida (under "Administrera"-kolumnen).