PERSONAL INTRODUCTION

QUICK OVERVIEW

MASTER 1 ICE, 2017-2018

BENOIT COMBEMALE PROFESSOR, UNIV. TOULOUSE, FRANCE

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Background

Positions

•	Since 2017 Full Professor in Software Engineering, University of Toulouse		in Software Engineering, University of Toulouse - Jean Jaurès	
		Teacher in the	Department of Mathematics and Computer Science	
		Researcher in t	he MACAO group, joint to CNRS/IRIT	
•	2009 - 2017 Associate Professor in Software Engineering, University of Rennes 1		essor in Software Engineering, University of Rennes 1	
		Teacher in the	engineering school ESIR (+ Master in SE)	
		Researcher in the DiverSE group, joint to CNRS/IRISA and Inria		
		2017	Visiting Professor at McGill University, CA	
		2013-2016	Research Scientist at Inria (on leave from UR1)	
		2010-2015	Regular visiting professor at CSU, USA	
•	2008-2009	Postdoc fellow	Postdoc fellow, Inria	
•	2005-2008	Research asso	Research associate (PhD student) at ENSEEIHT (grant, French government)	

Education

•	2015	HDR in Computer Science, University of Rennes 1
•	2008	PhD in Computer Science, University of Toulouse
•	2005	MSc in Computer Science, ENSEEIHT, Toulouse
•	2004	IUP NTIE, UT2J, Toulouse (software engineer at INEO SCLE)
•	2002	IUT in Computer Science, UT2J (Blagnac), Toulouse





Complex Software-Intensive Systems

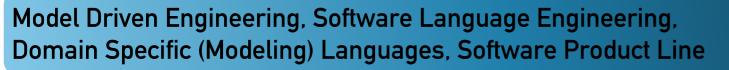












Combemale Internet of Things

Cyber-Physical Systems,

Agility and Safety for Wild Software



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Validation and Verification (formal methods, simulation, model-based testing)



Full Professor at University of Toulouse (UT2J) PhD and Habilitation in Computer Science

Department of Mathematics and Computer Science Research team MACAO (IRIT lab)



VANCOUVER 2017





Latest tweets

RT @andwor: Next: A Systematic Mapping Study on Modeling for Industry 4.0 with @bcombemale and @barais in empirical studies #models17

1 day ago

RT @richpaige: Best #sosym editorial board meeting ever #models17

https://t.co/vTWZeytMkx

2 days ago

SLE'17 program is now online:

https://t.co/KLnTdZkPTX cc @sleconf

3 days ago

RT @richpaige: @bcombemale "Programming is a special case of executable modelling."

#exe17 #models17

5 days ago

RT @richpaige: Benoit: "Would standardisation hinder innovation?" #exe17 #models17



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WE WANT YOU!

Round table

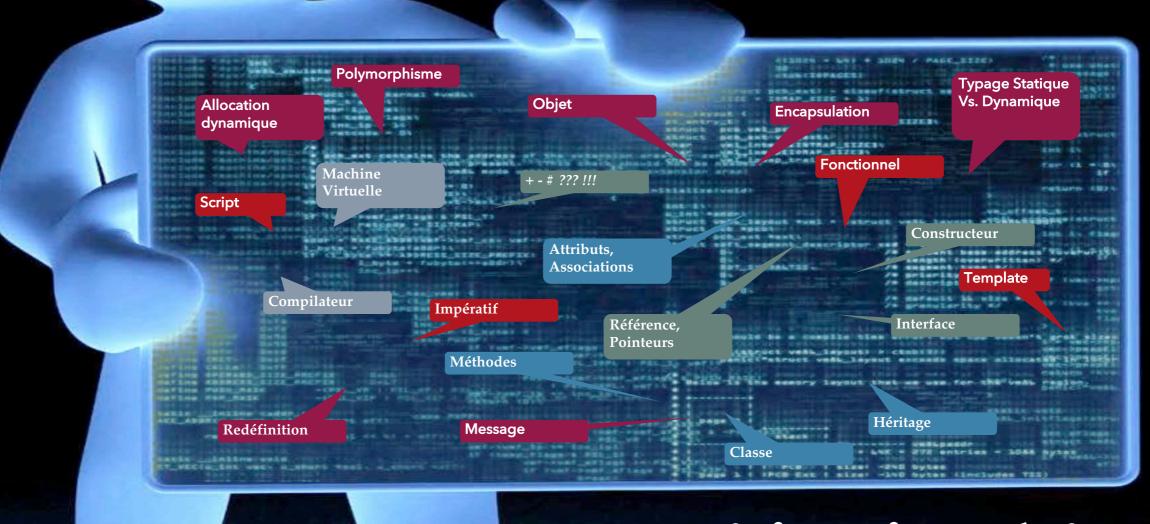


background? business project? expectations for the future? ...









... oriéntée objet!

Software Engineering: Definition

The pro"duction of operational software satisfying defined standards of quality...

... includes programming, but is more than programming!

The five components of Software Engineering [Meyer]:

- Describe: requirements, design, specification, doc...
- Implement: programming
- Assess: testing and other V&V techniques
- Manage: plans, schedules, communication, reviews
- Operate: deployment, installation...





Our Courses: A Long Path Together ©

Master 1 ICE

- Génie Logiciel (GL):
 - ► GLa: Validation & Vérification P
- Environnement Collaboratif (EC):
 - ECa: Méthodes de développement
 P1
 - ECb: Ingénierie des systèmes
 P1/P2
 - ECc: DevOps P1
- Ingénierie Dirigée par les Modèles (IDM)
 P2/P3
- Projet de développement collaboratif (PDC) P3/P4/P5

Master 2 ICE

Projet collaboratif tuteuré (PCT)P2/P3/P4





Course Organization

- Lectures, tutorials and labs have to be <u>interactive</u>
- Lectures, tutorials and labs are all <u>mandatory</u>
- Laptops (and others mobile devices) are useless during lectures => prohibited
- Disclaimers:
 - my slides are a mix of French and English
 - most of the time, just in time published (and might be outdated before)





How to reach me

- Preferably at the end of a lectures/tuto/labs
- Otherwise by sending an email with:
 - Your academic email (or a comprehensible one)
 - An explicit object starting with "[ICE1-XX] ...", where XX is the course related to the email
 - A full signature including your name, group/partners, etc.
 - A comprehensible description of your issues
 - ► The **related files** (diagrams, source code...)
 - Rq: to export an Eclipse project, use the dedicated facility (Project's contextual menu (by right clicking) > export > Archive File...)

compliance_with_these_rules => a_guaranteed_response





Course Materials

- Slides of the courses
- Complementary materials on the course websites
 - http://people.irisa.fr/Benoit.Combemale/teach/
- Textbooks and books (see slides)



Ingénierie Dirigée par les Modèles : des concepts à la pratique, by Jean-Marc Jézéquel, Benoit Combemale, Didier Vojtisek, Références sciences, ellipses (Eds.). 2012.



Engineering Modeling Languages: Turning Domain Knowledge into Tools, by Benoit Combemale, Robert B. France, Jean-Marc Jézéquel, Bernhard Rumpe, Jim R.H. Steel, and Didier Vojtisek. Chapman and Hall/CRC, pp.398, 2016. Companion website: http://mdebook.irisa.fr

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 - https://www.cybrhome.com/topic/engineering-blogs-of-companies



