



GEA Tianjin / 中国民航大学中欧航空工程师学院

CS41: VERIFICATION & VALIDATION





Course objectives - Rules of engagement

- By the end of this course you should know:
  - The main engineering processes supporting Verification&Validation
  - Modeling techniques and their application
  - SysML for modeling, simulation and verification of systems

- Rules of engagement
  - Participate.
  - One person speaks at any given time.
  - Keep discussion and question to the point.
  - Turn off your cell phones.
  - Be prompt returning from break.

Your trainer

Alain KERBRAT

Owner at CollESys

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25 years of experience in embedded systems design and system engineering, for the telecommunication, automotive and aerospace domains.

Has followed a complete path from research to industry. As a researcher in the Verimag laboratory, he has contributed to an Automated Test Generation tool for Telecommunication. He moved to the company Verilog (acquired by Telelogic, then IBM) to industrialize this tool. He later worked on the development of SDL and UML 2.0 toolsets.
In 2003, he moved to the aeronautical service company Aeroconseil, where he has been leading for 7 years the System Engineering department, before becoming the Information Systems Director for the company.

He is now the owner of CollESys, a company supporting industrial projects for their engineering and marketing needs.

He is engaged for 10 years in AFIS as a contributor to the requirements engineering group and as member of the board. He is currently leading the Model Based System Engineering technical Committee.
He lectures System Engineering in academic and industrial programs.

He holds a PhD in computer science and a Mastere in Business Administration.

Agenda week 13

Day	Lecture	Case study		
		Gr. PR	Gr. AV	Gr. SM
Monday	Module Presentation System Engineering			
Tuesday	Model Based System Engineering Requirements Engineering 1	System Analysis 1		
Wednesday	Requirements Engineering 2 Introduction to SysML		System Analysis 1	
Thursday	Verification&Validation Test & simulation	System Analysis 2	System Analysis 2	System Analysis 1 System Analysis 2
Friday	Industrial feedback 1	System modeling 1 System modeling 2	System modeling 1	System modeling 1

Agenda week 14

Day	Lecture	Case study		
		Gr. PR	Gr. AV	Gr. SM
Monday	Industrial feedback 2	System Modeling 3	System Modeling 2	System Modeling 2
Tuesday		System Modeling 4	System Modeling 3	System Modeling 3
Wednesday			System Modeling 4	System Modeling 4