

# MISS-ABMS 2014

## Multi-platform International Summer School on Agent-Based Modeling & Simulation for Renewable Resources Management

Sept. 8 – 19, 2014 – Montpellier (France)  
Program first week

	Monday 8 <sup>th</sup>	Tuesday 9 <sup>th</sup>	Wednesday 10 <sup>th</sup>	Thursday 11 <sup>th</sup>	Friday 12 <sup>th</sup>
9:00	Welcome session	Conceptual model Designing the structure with UML	Participants present a project of prototype model (Participants' Prototype Models - PPMs)	Participants' Prototype Models (PPMs)	Validation of models
	REHAB Ice-breaking role-playing game	Exercises UML class diagram	<i>Benchmark Model</i> UML description	Demonstration of GAMA specificities	Participants' Prototype Models (PPMs)
		Introducing <i>Benchmark model</i> - Natural language description	<i>Benchmark Model</i> Demonstration of implementation with CORMAS	Demonstration of CORMAS specificities	
12:30					
14:00	Introduction to computational models of socio-ecosystems	<i>Benchmark model</i> Exercise UML class diagram	<i>Benchmark Model</i> Demonstration of implementation with NETLOGO	Demonstration of NETLOGO specificities	Coding practice
	Introduction to multi-agent systems and agent-based simulation	Conceptual model Specifying the processes With UML	<i>Benchmark Model</i> Demonstration of implementation with GAMA	General discussion on platforms	
		<i>Benchmark Model</i> Exercise UML activity diagram	Calibration of models Sensitivity analysis Analysis of simulation outputs	Coding practice (on separate platforms)	
17:30	Discussion on the program				

Plenary session ■  
Platforms demo ■

Plenary lecture (methodology) ■  
Plenary lecture (case study) ■

Individual exercise ■  
Group exercise ■

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	<b>Monday 15<sup>th</sup></b>	<b>Tuesday 16<sup>th</sup></b>	<b>Wednesday 17<sup>th</sup></b>	<b>Thursday 18<sup>th</sup></b>	<b>Friday 19<sup>th</sup></b>
<b>9:00</b>	Case study: Wat-a-Game	Case study: a project with the CORMAS platform	Case study: a project with the GAMA platform	Case study: Asymmetric distributed simulation	Preparation of PPMs presentation & demonstration
	Participants' Prototype Models (PPMs)	Participants' Prototype Models (PPMs)	Participants' Prototype Models (PPMs)	Participants' Prototype Models (PPMs)	Presentation & demonstration of PPMs
<b>12:30</b>					Final debriefing
<b>14:00</b>	Coding practice	Coding practice	Coding practice	Documentation of ABMs	
	Participants' Prototype Models (PPMs)	Participants' Prototype Models (PPMs)	Participants' Prototype Models (PPMs)	Participants' Prototype Models (PPMs)	
<b>17:30</b>					

**Summer school diner**