

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 8th	Tuesday 9th	Wednesday 10th	Thursday 11th	Friday 12th
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
12:30	REHAB Ice-breaking role-playing game	Exercises UML class diagram	Benchmark Model UML description	Demonstration of GAMA specificities	Participants' Prototype Models (PPMs)
14:00	Introduction to computational models of socio-ecosystems	Benchmark model Exercise UML class diagram	Benchmark Model Demonstration of implementation with NETLogo	Demonstration of NETLogo specificities	Coding practice
17:30	Introduction to multi-agent systems and agent-based simulation	Conceptual model Specifying the processes With UML	Benchmark Model Demonstration of implementation with GAMA	General discussion on platforms	Coding practice (on separate platforms)
	Discussion on the program	Benchmark Model Exercise UML activity diagram	Calibration of models Sensitivity analysis Analysis of simulation outputs		

Plenary session
 Platforms demo

Plenary lecture (methodology)
 Plenary lecture (case study)

Individual exercise
 Group exercise

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 Program second week

	Monday 15th	Tuesday 16th	Wednesday 17th	Thursday 18th	Friday 19th
9:00	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	
				Final debriefing	
12:30					
14:00	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)	
17:30					

Summer school dinner