

# Numerical Analysis AND Optimization Days (JANO'13)

## Khouribga, February 22-24, 2021

### MS11. Dynamical Systems and Stochastic Processes.

Organizers: **Abderrahim Azouani** (Sultan Moulay Slimane University, Morocco )

**Tuesday, February 23, 2021 (11h30--13& 15h--16h15)**

n°	Title and Authors	Time table
1	<b>M. EL Hassnaoui</b> , S. Melliani and M. Oukessou : A system coupled of nonlinear impulsive fuzzy integro-differential equations	11h30-11h40
2	<b>H. Kadraoui</b> , A. Merbouha and H. Elmaroufy: Bayesian Methods for Stochastic Differential Equations.	11h45-11h55
3	<b>N. Ourkiya</b> and B. EL Asri: BSDEs with two Reflecting Barriers and Mixed Zero-Sum Stochastic Differential Game.	12h00-12h10
4	<b>A. Hajar</b> and Ait Elbhira: Diffusion equation with highly oscillatory forcing terms	12h15-12h25
5	<b>A. EL Mfadel</b> , S. Melliani, M. Elomari: Mittag-Leffler stability of intuitionistic fuzzy nonlinear fractional differential equations	12h30-12h40
6	<b>A. Settar</b> , N. I. Fatmi: On the computational estimation of the component GARCH model.	12h45-12h55
<b>LUNCH BREAK</b>		
7	<b>S. El Fadily</b> , K. Najib and A. Kaddar:	15h00-15h10

	Qualitative Analysis of a Delayed Mathematical Framework with Applications of Solow- logistic Model	
8	<b>S. EL Masmari:</b> Reflected Stochastic Differential Equations.	15h15-15h25
9	<b>S. Hero,</b> A. Nachaoui: Stability analysis of a Mathematical model for HIV/AIDS-cancer dynamics.	15h30-15h40
10	<b>M. Eddahbi,</b> A. Azzayani, A.Kaddar and H. T. Alaoui: The hopf bifurcation analysis of cobweb model with two time delays.	15h45-15h55
11	<b>E. Arhrrabi,</b> M. Elomari, S. Melliani, L.S Chadli: Random fuzzy fractional differential equation] On the initial value problem for random fuzzy fractional differential equation with Caputo-Katugampola fractional derivative.	16h00-16h10