

## CARI-2022 : Programme Tunisie

Périodes / horaires	Tunis	
24 sept. - 3 oct.	Ecole CIMPA	
<b>4 octobre</b>		
08H00 – 09H00	Accueil + Enregistrement	
9H00 – 10H00	Plénière : Ouverture	
10H00 – 10H30	Pause Café	
10H30– 11H30	Conférence spécialisée : <b>Taoufik Sari</b> The multipatch logistic equation.	
11H30 – 13H00	Tumor Growth	Inverse Problems
	Ben Essid Atef, Ben Abdejilil Slah Eddin and Mani-Aouadi Saloua. <i>A high-order WENO scheme of a tumor growth model for treated small cell lung cancer</i>	Mohamed Bensalah and Maatoug Hassine. <i>Identification of the spatial component in the source term of a space-time fractional diffusion equation</i>
	Maatoug Hassine and Emna Ghezaiel. <i>Thermography process and topological asymptotic formula for tumor detection</i>	Nadjib Boussetila and Tahar Bechouat. <i>Une variante de la méthode de Projection régularisée pour une classe d'équations intégrales de Fredholm de première espèce</i>
	Mohammed Benmir, Salma Chabbar, Rajae Aboulaich and Nabil Ismaili. <i>A Hybrid Model of Tumor Growth Under Chemotherapy Medicine</i>	Chaima Abid, Amel Ben Abda, Riadh Ben Fatma and Yosra Boukari. <i>Un algorithme de complétions de données via la représentation intégrale de l'opérateur Stecklov-Poincaré</i>
13H00 – 14H40	Pause Déjeuner	
14H40 – 15H40	Plénière : <b>Engelbert Mephu Nguifo</b> (Sciences de Données)	

15H40 – 16H00	<i>Pause-tasse de café</i>	
16H00 – 17H30	<b>Mini symposium invité</b>	<b>Maths du Vivant</b>
	<i>Asma Rouatbi. A new high order numerical approach for a nonlinear dispersive equation type,</i>	<i>Thamer Hmidhi and Radhouane Fekih-Salem. On a global stability of a two-step anaerobic digestion model</i>
	<i>Samira Labidi. A new conservative fourth-order accurate difference scheme for the nonlinear Schrodinger equation with wave operator,</i>	<i>Benaissa Dekhici, Boumediène Benyahia and Brahim Cherki. Dynamic mode decomposition with Control for Data-driven Modeling of Anaerobic Digestion Process</i>
	<i>Kaouther Ismail, A three-level linearized difference scheme for the two-dimensional Extended-Fisher-Kolmogorov equation.</i>	<i>Oumaima Laraj, Noha El Khattabi and Alain Rapaport. Mathematical Model Of Anaerobic Digestion With Leachate Recirculation</i>
<b>5 octobre</b>		
08H45 – 09H35	Conférence spécialisée : <b>Mohamed Mnif</b> Nonzero-sum stochastic impulse games with an application in competitive retail energy markets	
09H40 – 10H40	Plénière : Rym Assasi (CyberSécurité)	
10H40 – 11H00	<i>Pause-Café</i>	
11H00 – 12H30	<b>Biomedical</b>	<b>Partial Differential Equations</b>
	<i>Ben Abdejilil Slah Eddin, Ben Essid Atef and Mani-Aouadi Saloua. Analysis of tumor growth model including a PDE-ODE coupling with a nonlocal boundary condition</i>	<i>Siwar Saidani. Asymptotic behaviors for the eigenvalues of Schrodinger equations in the presence of small deformations</i>
	<i>Hamza Ammar, Moncef Mahjoub and Nejib Zemzemi. Global Lipschitz stability of multiple space dependent ionic parameters for the MEA/hiPSC-CM assays</i>	<i>Sousan Boujemaa. Asymptotic expansions for solutions of Maxwell's equations in domain with highly oscillating boundary</i>
	<i>Amina Hammoum, Tewfik Sari and Karim Yadi. Rozensweig-macArthur model with variable disappearance rate</i>	<i>Mohamed Lajili, Anis Theljani, Maher Moakher and Badreddine Rjaibi. Multimodal image registration based on geometric similarity term</i>
12H30-14H40	<i>Pause Déjeuner</i>	

14H40-15H40	Plénière : <b>Jérémy Buisson</b> (Ingénierie d'architecture virtuelles)	
15H45-16H45	Plénière : <b>Moncef Mahjoub</b> Problèmes inverses en électrophysiologie cardiaque	
16H45 – 17H00	<i>Pause-tasse de café</i>	
17H00 – 18H30	<b>Epidemiology &amp; EDP</b>	<b>Modélisation et étude de cas</b>
	<i>Stefana Fandresena Tsilefa and Angelo Raheirinirina. Study of the convergence of stochastic compartmental models in epidemiology</i>	Floris Kagho Donchi Khalil, Guy-De-Patience Ftatsi Mbetmi, David Jaurès Fotsa-Mbogne and Bonaventure Djeumako. <i>Modélisation et estimation de la fiabilité dynamique d'un évacuateur de crues</i>
	<i>Abdelkader Dellal, Abdelghani Ouahab and Henderson Johnny. Existence of solutions for Solitons type equations : Derrick's Problem with twice p-laplacian</i>	<i>Arno Roland Ngatcha Ndengna, Boniface Nkonga, Abdou Njifenjou and Raphael Onguene. Shear shallow water modeling of sediments transport flows</i>
	<i>Achouak Bekkai. Globally unsolvability of fractional evolution equations with exponential nonlinearity</i>	<i>Amira Bouhali, Walid Ben Aribi, Slimane Ben Miled and Amira Kebir. Optimal control applied to mathematical model of COVID 19</i>
<b>6 octobre</b>		
09H00 – 10H00	Plénière : <b>Grégoire Allaire</b> Optimisation topologique de structures construites par fabrication additive.	
10H05 – 10H35	<i>Pause-tasse de café</i>	
10H35 – 11H35	Plénière : <b>Flora Ponjou Tasse</b> (Intell Artif et Réalité augmentée)	

11H40 – 12H40	<b>Modélisation</b>	
	Tahani Mtar, Radhouane Fekih-Salem and Tewfik Sari. <i>Mathematical analysis of an interspecific density-dependent model with mutual inhibition and distinct removal rates</i>	Ibrahim soufi. On the existence of two solutions for a boundary value problem on the half-line
	Rezki Chemlal and Hacene Gharout. <i>Combining chaotic dynamical systems using the fuzzy logic XOR operator.</i>	
12H40 – 14H10	<i>Pause Déjeuner</i>	
14H10-16H30	<i>Meeting ASDS</i>	