



ICPAMS-2021

# CERTIFICATE OF PARTICIPATION

This is to certify that

**Kaouther Bouchama**

contributed by an oral presentation entitled

**Numerical solutions for linear fractional differential equations  
with dependence on the Caputo-Hadamard derivative of order  $\alpha$  using finite difference method**

During the

**INTERNATIONAL E-CONFERENCE ON PURE AND APPLIED  
MATHEMATICAL SCIENCES (ICPAMS-2021)**

**7-10 June 2021**

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DR. RAOUF FAKHFAKH  
General Conference

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DR. MOHAMED KHARRAT  
General Conference

**June 7, 2021 (Second Session) Chairs Men: Hassen Arfaoui, Abdeljabbar Ghanmi and Mohamed Kharrat**

**ZOOM Link :<https://us02web.zoom.us/j/84734705522>**

	<b>Hours (GMT)</b>	<b>Oral Presentation Speakers</b>	<b>Presentation Titles</b>
13:30 - 17:45 (GMT)	13:30 - 13:45	Rabha W. Ibrahim	Classes of analytic functions associated by a new fractional conformable differential operator
	13:45 – 14:00	Aziza Bachmar	A fractional contact problem with wear for thermoviscoelastic materials
	14:00 – 14:15	Kishor Kucche	$\Psi_k$ -Hilfer Fractional Derivative
	14:15 – 14:30	Vanithakumari Balsubra Amaniam	Sakaguchi-Type function defined by (p,q)-Fractional operator using Laguerre polynomials
	14:30 - 14:45	Abdelouahed Alla Hamou	Analysis and numerical simulations of fractional multi-order Covid-19 model
	14:45 – 15:00	Kaouther Bouchama	Numerical solutions for linear fractional differential equations with dependence on the Caputo-Hadamard derivative using finite difference method
	15:00 – 15:15	Mohamed Kharrat	Pricing options under Fractional Model
	15:15 – 15:30	Adel Lachouri	Existence and stability analysis for fractional differential equations with mixed nonlocal conditions
	15:30 - 15:45	Smail Kaouache	Combination anti-synchronization between identical fractional-order unified chaotic systems using active control method
	15:45 – 16:00	Ali Khalouta	Closed-form solutions to some nonlinear fractional partial differential equations arising in mathematical sciences
	16:00 – 16:15	Abdelkader Benali	Homotopy perturbation transform method for solving the partial and the time-fractional differential equations with variable coefficients
	16:15 – 16:30	Rima Faizi	An inverse problem for generalized time-fractional diffusion equation with nonlocal boundary and over-determination condition
	16:30 - 16:45	Karim Aggoun	On a class of time fractional problems with mixed boundary conditions
	16:45 – 17:00	Seham Al Roweathi	Pricing options under fractional Vasicek model
	17:00 – 17:15	Hadjer Zerimeche	Projective synchronization of Caputo fractional-order nonautonomous chaotic systems using a feedback controller
	17:15 – 17:30	Umar Muhammad Abubakar	Integral transforms and fractional calculus of the generalized Mittag-Leffler function
	17:30 – 17:45	Tahar Bouali	Two non-trivial Homoclinic solutions for fractional discrete p-Laplacian equations
17:45 – 18:00	Mohamed Amine Boubatra	Harmonic analysis problems associated with the fractional k-Hankeltransform on R	