

## Scientific Committee

1. **Benbachir Maamar, Co-ordinator**
2. Abbas Karim, Algeria
3. Abbas Moncef, Algeria
4. Adjabi Smail, Algeria
5. Aider Meziane, Algeria
6. Aissani Djamil, Algeria
7. Ait Haddadene Hacene, Algeria
8. Ali Ziane Tarik, Algeria
9. Alistair B. Forbes, UK
10. Barakat Haroon, Egypt
11. Benazza Amel, Tunisia
12. Benchouhra Mouffak, Algeria
13. Bendraouche Mohamed, Algeria
14. Benhamidouche Nouredine, Algeria
15. Bouchemakh Isma, Algeria
16. Boudhar Mourad, Algeria
17. Boudjemaa Redouane, Algeria
18. Boulaaras Salah, KSA
19. Bouroubi Sadek, Algeria
20. Bouzar Chikh, Algeria
21. Brahimi Brahim, Algeria
22. Chebana Fateh, Canada
23. Chellali Mustapah, Algeria
24. De Marchi Stefano, Italy
25. Desoneux Agnès, France
26. Diaf Moussa, Algeria
27. Diop Aliou, Senegal
28. Djebali Smail, KSA
29. Filali Mahmoud, Finland
30. Gane Samb, Senegal
31. Gordji Madjid Eshaghi, Iran
32. Guérékata Gaston M. N., United States
33. Hachama Mohammed, Algeria
34. Kaabar Mohammed K. A., Malaysia
35. Larabi Slimane, Algeria
36. Lupulescu Vasile, Romania
37. Madzvamuse Anotida, UK
38. Matar Mohammed M., Palestine
39. Medaghri Ahmed, Algeria
40. Mezerdi Brahim, KSA
41. Nouri F-Zohra, Algeria
42. Ouchenane Djamel, Algeria
43. Oukid Nadia, Algeria
44. Oukil Amar, Oman
45. Ourbih Megdouda, Algeria
46. Rassoul Abdelaziz, Algeria
47. Richard Frédéric, France
48. Samsul Ariffin Karim B. A., Malaysia
49. Skala Vaclav, Czech Republic
50. Taous Meriem, KSA
51. Worms Rym, France
52. Zaghdoudi Halim, Algeria
53. Zitikis Ricardas, Canada



## Organizers

### Honorary President:

Prof. Bezzina Mohammed  
(Rector of the University of Blida 1)

### General Chair:

Prof. Hachama Mohammed  
(University of Blida 1)

### Coordinators:

1. **Dr. Boudjemaa Redouane**
2. Mr. Boukhari Mohammed
3. Dr. Lamameri Abdelkader
4. Dr. Tami Omar (Head of Department)

## Contacts

Secretariat of ICMA'2021:  
Email: [icma21@sciencesconf.org](mailto:icma21@sciencesconf.org)



# International Conference on Mathematics and Applications (ICMA'2021)

<https://icma21.sciencesconf.org/>

**University of Blida 1**

**December 7 – December 8, 2021**

## Overview

Welcome to the 1<sup>st</sup> International Conference on Mathematics and Applications (ICMA'2021), an online event that will bring together professors, researchers, scholars and students in the field of Pure and Applied Mathematics from both academia and industry. This Conference will cover topics on Mathematical Analysis, Probability and Statistics, Operational research, Applied Mathematics, Modelling, and related fields. The conference is an ideal platform for exchanging the latest research results and the evaluation of emerging technologies for researchers, practitioners, and professionals from across the globe. ICMA'2021 will host talks by renowned speakers and oral presentations related to the topics dealt with the scientific program.

## Invited Speakers

ICMA'2021 will host talks by the following renowned speakers:

- Prof. Taous Meriem Laleg, KAUST, KSA
- Prof. Frédéric Richard, Aix-Marseille Université, France
- Prof. Boualem Djehiche, KTH Royal Institute of Technology, Sweden

- Prof. Stefano De Marchi, University of Padova, Italy
- Prof. Faouzia Rebbani, Ecole Supérieure de Technologies Industrielles ESTI Algeria
- Prof. Fatma Zohra Nouri, Badji Mokhtar - Annaba University, Algeria
- Prof. Mouffak Benchohra, Djillali Liabes University, Algeria
- Prof. Samsul Ariffin B A Karim, Universiti Teknologi Petronas, Malaysia
- Prof. Chikh Bouzar, University of Oran, Algeria
- Prof. Amar Oukil, Sultan Qaboos university, Oman
- Prof. Dalila Azzam-Laouir, University of Jijel, Algeria
- Dr. Loqmane Seridi, Johnson & Johnson Co, USA



## Schedule

### Tuesday, December 7

8:30 - 9:30 Opening Ceremony Online & Auditorium USDB

#### Online Invited Talk

9:30 - 10:00 **Prof. Taous Meriem Laleg,**  
*Mathematical modeling of the arterial stiffness: solitons-based model versus fractional order model*

10:00 - 10:30 **Coffee Break**

10:30 - 11:00 **Prof. Frédéric Richard,**  
*Anisotropic fractional Brownian fields: properties, simulation and estimation.*

11:00 - 11:30 **Prof. Boualem Djehiche,**  
*On a class of time-inconsistent optimal stopping problems*

11:30 - 12:00 **Prof. Stefano De Marchi,**  
*Variably Scaled Discontinuous Kernels*

12:00 - 13:00 **Lunch Break**

#### Online Parallel Sessions Presentations

13:00 - 15:00 **Parallel Sessions 1 - For details, please see the online program**

13:00 - 15:00 **Parallel Sessions 2 - For details, please see the online program**

#### Online Invited Talk (Parallel)

15:00 - 15:30 **Prof. Faouzia Rebbani,**  
*On some analytical and numerical aspects of some regularization methods applied to ill-posed problems in PDEs*

15:00 - 15:30 **Prof. Fatma Zohra Nouri,**  
*Mathematical modeling of multiphase flows*

#### Online Parallel Sessions Presentations

15:30 - 18:00 **Parallel Sessions 3 - For details, please see the online program**

15:30 - 18:00 **Parallel Sessions 4 - For details, please see the online program**

### Tuesday, December 8

#### Online Invited Talk (Parallel)

09:00 - 09:30 **Prof. Mouffak Benchohra,**  
*Semilinear Differential Equations: Existence, Stability and Controllability*

09:00 - 09:30 **Prof. Samsul Ariffin B A Karim,**  
*Cubic B-Spline Approximation for Solving Linear Two-Point Boundary-Value Problems*

09:30 - 10:00 **Prof. Chikh Bouzar,**  
*Spaces of multi-anisotropic ultradifferentiable functions*

09:30 - 10:00 **Prof. Amar Oukil,**  
*Ranking frameworks based on the integration of Data Envelopment Analysis and Ordered Weighted Averaging*

#### Online Parallel Sessions Presentations

10:00 - 12:00 **Parallel Sessions 5 - For details, please see the online program**

10:00 - 12:00 **Parallel Sessions 6 - For details, please see the online program**

12:00 - 13:00 **Lunch Break**

#### Online Parallel Sessions Presentations

13:00 - 15:00 **Parallel Sessions 7 - For details, please see the online program**

13:00 - 15:00 **Parallel Sessions 8 - For details, please see the online program**

#### Online Invited Talk (Parallel)

15:00 - 15:30 **Prof. Dalila Azzam-Laouir,**  
*Differential inclusions governed by maximal monotone operators*

15:00 - 15:30 **Dr. Loqmane Seridi,**  
*Gaining biological insights through mathematics*

#### Online Parallel Sessions Presentations

15:30 - 17:30 **Parallel Sessions 9 - For details, please see the online program**

15:30 - 17:30 **Parallel Sessions 10 - For details, please see the online program**

17:30 - 18:00 Closing Ceremony Online & Auditorium USDB