

The “13th International Conference on Applied Analysis and Mathematical Modeling” jointly organized by Biruni University and Siirt University will be held on 27-31 July 2026 in ISTANBUL, TURKEY. We would like to invite you to present a paper or a poster at the conference whose main theme is the topics presented below or general mathematics with applications.

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## Co-Chairs

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Hossein Jafari, University of South Africa, South Africa

Idris Dağ, Eskisehir Osmangazi University, Turkey

Jagdev Singh, JECRC University, India

Jordan Hristov, University of Chemical Technology, Bulgaria

## (Tentative) Invited Speakers

George Anastassios, USA  
 Dumitru Baleanu, Lebanon  
 J. Alberto Conejero, Spain  
 Mahmoud Abdel-Aty, Egypt  
 Jamal-Odysseas Maaita, Greece  
 Juan R. Torregrosa, Spain  
 Ali Akgul, Turkey  
 A.Cordero, Spain  
 Luis Vazquez, Spain  
 Amar Debbouche, Algeria

## (Tentative) Invited Speakers

Yeliz Karaca, USA  
 Mir Sajjad Hashemi, Iran  
 Sunil Dutt Purohit, India  
 Adem Kilicman, Malaysiya  
 Abdelsalam Gomaa Abdelsalam, Qatar  
 Sunil Kumar, India  
 Zakia Hammouch, Morocco  
 Amin Jajarmi, Iran  
 Nauman Ahmed, Pakistan  
 Zaid Odibat, Jordan  
 Abdullahi Yusuf, Turkiye  
 Carlo Grebogi, UK  
 Raoul Nigmatullin, Russia  
 Babak Shiri, China  
 Irina Perfilieva, Czech Republic  
 Mohammad Hossein Heydari, Iran  
 Praveen Agarwal, India  
 Jan Awrejcewicz, Poland  
 Liliana Gurau, Romania  
 Krishna Pada Das, India  
 Nauman Ahmed, Pakistan  
 Muhammad Farman, Cyprus

**Authors are invited to submit extended abstracts but not limited to, on the following topics:**

**•ADVANCES IN DIFFERENTIAL AND DIFFERENCE EQUATIONS WITH APPLICATIONS:** During the last few years, the theory of fractional differentiation has been successfully applied to the study of anomalous social and physical behaviors, where scaling power law of fractional order appear universal as an empirical description of such complex phenomena. Recently, the difference counterpart of fractional calculus has started to be intensively used for a better characterization of some real-world phenomena. Systems of delay differential equations have started to occupy a central place of importance in various areas of science, particularly in biological areas.

**•APPLIED MATHEMATICS AND MODELING:** Computational Methods, Ordinary and Partial Differential Equations, Mathematical Modeling and

Applied Mathematics, as well as their extensions and generalizations in one or more variables.

**•NUMERICAL ANALYSIS AND APPLICATIONS:** Linear systems of equations, Nonlinear systems of equations and optimization, Interpolation and approximation, Integration, Differential equations, Theory and practice of computational methods, mathematical physics, and other applied fields; Mathematical models of elasticity theory, hydrodynamics, fluid dynamics, and geophysics; Parallelizing of algorithms; Models and methods of bioinformatics.

**•ANALYSIS AND ITS APPLICATIONS:** Approximation Theory and Its Applications, Ergodic Theory, Sequence Spaces and Summability, Fixed Point Theory, Functional Analysis and Its Applications and related topics.

**•ALGEBRA and RELATED TOPICS:** Ring and Module theory, Group theory, Semigroup theory, Linear Algebra, Algebraic combinatorics, Algebraic graph theory, Homological Algebra,

Jose Francisco Gomez Aguilar, CONACyT-Tecnológico Nacional de México , México  
 Juan J. Nieto, University of Santiago de Compostela, Spain  
 Juan J. Trujillo, University of La Laguna, Spain  
 Kamyar Hosseini, Islamic Azad University, Iran  
 Lamine Chaabane, University of M'sila, Algeria  
 Luis Vazquez, Universidad Complutense de Madrid, Spain  
 Mahmoud Abdel-Aty, Sohag University, Egypt  
 Mustafa Bayram, Biruni University, Turkey  
 Michal Fečkan, Comenius University, Slovakia  
 Michele Caputo, Accademia Nazionale Lincei University, Italy  
 Mir Sajjad Hashemi, Bonab University, Iran  
 Muhammad Younis, University of Punjab, Pakistan  
 M. Zaeem-ul-Haq Bhatti, Punjab University, Pakistan  
 Naila Rozi, University Sindh Madrassatul Islam, Pakistan  
 Nasser Sweilam, Cairo University, Egypt  
 Necati Özdemir, Balıkesir University, Turkey  
 Nor Haniza Sarmin, University Technology, Malaysia  
 Norihan Binti Md Arifin, University Putra, Malaysia  
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 Xiao-Jun Yang, China University of Mining and Technology, China  
 Yeliz Karaca, University of Massachusetts (UMass) Chan Medical School, Worcester, USA  
 Yong Zhou, Xiangtan University, China  
 Yongguang Yu, Beijing Jiaotong University, China  
 Tamaz Kaladze, Tbilisi University , Georgia  
 Zakia Hammouch, Moulay Ismail University, Morocco  
 Zanariah Binti Abdul Majid, Putra University, Malaysia  
 Abdullahi Yusuf, Biruni University, Turkey  
 Özlem Defterli, Çankaya university, Turkey  
 Muhammad Imran Asjad, University of Management and Technology, Pakistan

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Optimization, Bio Mathematics, Data Analysis and related topics.

**•FRACTIONAL-ORDER INTEGRAL AND DERIVATIVE OPERATORS AND THEIR APPLICATIONS:** In recent years, various families of fractional-order integral and derivative operators, such as those named after Riemann-Liouville, Weyl, Hadamard, Grunwald-Letnikov, Riesz, Erdelyi-Kober, Liouville-Caputo, and so on, have been found to be remarkably important and fruitful, due mainly to their demonstrated applications in numerous seemingly diverse and widespread areas of the mathematical, physical, chemical, engineering, and statistical sciences. Many of these fractional-order operators provide interesting, potentially useful tools for solving ordinary and partial differential equations, as well as integral, differintegral, and integro-differential equations; fractional-calculus analogues and extensions of each of these equations; and various other problems involving special functions of Mathematical Physics and

Algebraic topology, Fuzzy Algebra, Cryptography.

**•APPLIED ALGEBRA AND ITS APPLICATIONS:** Cryptography, Combinatorics and Its Applications, Cellular Automata, Computational Algebra, Computational Group Theory and related topics, Information Theory and Error Correcting Codes.

**•GEOMETRY AND ITS APPLICATIONS:** Algebraic Geometry and Its Applications, Differential Geometry, Kinematics and related topics.

**•ALGEBRAIC STATISTICS AND ITS APPLICATIONS:** Algebraic statistics and its applications, Probability and Statistics Applications.

Please note that the conference language is English. Send us your abstracts through the online registration form for oral or poster presentations. The talks given by plenary speakers will be 50 minutes including a ten minute question and answer session while the contributed talks will be 20 minutes including the question and answer session.

A number of leading researchers working on new trends in mathematics will be invited to deliver keynote lectures. Authors should submit their abstracts at the webpage:

<http://www.ntmsci.com/Conferences/ICAAMM2026>.

The Abstract should clearly state the objectives, results and conclusions of the work undertaken and emphasize the novel aspects of the work. Contact information and affiliation of the corresponding author must be included. All accepted abstracts will be published in a Proceedings Book. All authors of accepted abstracts to the Conference for presentation are invited to submit a full paper version to be considered for possible publication in special issues of indexed journals. Submitted papers for journal will go through the standard review process of the journals.

## IMPORTANT DATES

June 15, 2026	Extended Deadline for submission of abstracts
June 15, 2026	Notification of acceptance of abstracts
June 15, 2026	Deadline to pay the registration fee
July 1, 2026	Announcing the symposium program

**REGISTRATION FEES:** Non Student 300 (Dollars), Student 200 (Dollars). This cost covers items such as symposium bag with conference programs and abstracts, lunches, the Opening Cocktail, refreshments.