

# RECENT ADVANCES FOR COMPUTATIONAL AND MATHEMATICAL METHODS IN SCIENTIFIC PROBLEMS

## GUEST EDITORS

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**Dr. Nouri Boumaza**, Department of Mathematics and Computer Science, Larbi Tebessi University, Tebessa, Algeria (email: [nouri.boumaza@univ-tebessa.dz](mailto:nouri.boumaza@univ-tebessa.dz))

**Prof. Belgacem Rebiai**, Department of Mathematics and Computer Science, Larbi Tebessi University, Tebessa, Algeria (email: [belgacem.rebiai@univ-tebessa.dz](mailto:belgacem.rebiai@univ-tebessa.dz))

**Prof. Abderrahmane Zarai**, Department of Mathematics and Computer Science, Larbi Tebessi University, Tebessa, Algeria (email: [belgacem.rebiai@univ-tebessa.dz](mailto:belgacem.rebiai@univ-tebessa.dz))

## DESCRIPTION

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This special issue in *Demonstratio Mathematica* is organized in cooperation with the International Conference on Recent Advances in Mathematics and Informatics (ICRAMI 2021) which will be held in Tebessa, Algeria during September 21-22, 2021. ICRAMI 2021 aims to bring researchers, practitioners together to present the most up-to-date achievements, to meet new colleagues, collect new ideas and establish new cooperation between research groups and provide a platform for researchers from academic and industry to present their original work and exchange ideas, information, techniques and applications in the field of Mathematics and Computer sciences, including, but not limited to the broad topics of Partial Derivative Equation, Dynamical System, Operations Research, Numerical Analysis, Operator theory, Soft Computing, Cryptology & Security Analysis, Image Processing, Big Data, Cloud Computing, Data Analytics, IoT, Pervasive Computing and other emerging areas of research. The Special Issue will feature selected and fully-refereed papers from the contributions presented at the conference.

Contributions to the Special Issue may address (but are not limited) to the following aspects:

- ▶ Approximation theory and numerical methods
- ▶ Finite-time blow-up for integer and fractional nonlinear evolution equations
- ▶ Decay of mass for nonlinear evolution equations
- ▶ Nonlinear fractional reaction-diffusion equations
- ▶ Fixed points theory and its applications
- ▶ Dynamical systems and control theory
- ▶ Operator theory
- ▶ Numerical methods of functional equations arising in physics
- ▶ Numerical treatment for fractional-order control problems
- ▶ Numerical treatment for fractional-order modelling of real-world phenomena

Authors are requested to submit their full revised papers complying the general scope of the journal. The submitted papers will undergo the standard peer-review process before they can be accepted. Notification of acceptance will be communicated as we progress with the review process.

## HOW TO SUBMIT

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Before submission authors should carefully read the Instruction for Authors, available online at: [https://www.degruyter.com/publication/journal\\_key/DEMA/downloadAsset/DEMA\\_Instruction%20for%20Authors.pdf](https://www.degruyter.com/publication/journal_key/DEMA/downloadAsset/DEMA_Instruction%20for%20Authors.pdf)

Manuscripts can be written in TEX, LATEX (strongly recommended) - the journal's LATEX template. Please note that we do not accept papers in Plain TEX format. Text files can be also submitted as standard DOCUMENT (.DOC) which is acceptable if the submission in LATEX is not possible. **For an initial submission, the authors are strongly advised to upload their entire manuscript, including tables and figures, as a single PDF file.**

All submissions to the Special Issue must be made electronically via online submission system Editorial Manager: <https://www.editorialmanager.com/dema/>

All manuscripts will undergo the standard peer-review process (single blind, at least two independent reviewers). When entering your submission via online submission system please choose the section/category "*Special Issue based on ICRAMI 2021.*"

Submission of a manuscript implies that the work described has not been published before and it is not under consideration for publication anywhere else.

**The deadline for submissions is 31st October 2021**, but individual papers will be reviewed and published online on an ongoing basis.

Contributors to the Special Issue will benefit from:

- ▶ critical peer-review
- ▶ no space constraints
- ▶ quick online publication upon completing the publishing process (**continuous publication model**)
- ▶ content converting to xml
- ▶ better visibility due to **Open Access** - free, unrestricted and permanent access to all the content
- ▶ **liberal policies on copyrights** (authors retain copyrights) and on self-archiving (no embargo periods)
- ▶ promotion of published papers to readers and citers
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We are looking forward to your submission!

In case of any question please contact **Dr. Justyna Żuk** (Managing Editor; [Justyna.Zuk@degruyter.com](mailto:Justyna.Zuk@degruyter.com)).