Open Invited Track
Software for fractional Calculus

Organizers:

Rachid MALTI, Stéphane VICTOR, Patrick LANUSSE
IMS – UMR 5218 CNRS
Univ. Bordeaux, Bordeaux INP
{rachid.malti, stephane.victor, patrick.lanusse}@ims-bordeaux.fr

Abstract: This open invited track is dedicated to the recent developments on software/toolbox for fractional systems.

IFAC technical committee for evaluation: TC 1.1

Open Invited Track identification code:

Detailed description:

Fractional (or non-integer) calculus plays a major role in various theoretical and applied fields (Mathematics, Physics, Mechanics, Control engineering, Biology, Electrochemistry, Signal Processing, …).

The last 30 years, have witnessed multiple software developments related to the use of fractional calculus in these various fields. Such software may appear as toolboxes, a collection of scripts, or even as User Guided Interfaces. They may use various platforms such as Matlab, Maple, Mathematica, …

The objective of this Open Invited Track is to offer the possibility to researchers to present their latest software developments related to the use of Fractional Calculus in various fields such as:
- Mathematics,
- Physics,
- Mechanics,
- Control engineering,
- Biology,
- Electrochemistry,
- Signal Processing…

Key dates:

30 November 2023 - Paper submission deadline
30 January 2024 - Notification of acceptance
22 April 2024 - Final paper submission deadline