



Open Invited Track

Analytical and topological methods for fractional differential equations

Organizers:

1. Professor Kunquan Lan, Toronto Metropolitan University, Toronto, Canada. Email: klan@torontomu.ca
2. Professor Satoshi Tanaka, Tohoku University, Japan. Email: satoshi.tanaka.d4@tohoku.ac.jp
3. Professor Arran Fernandez, Eastern Mediterranean University, Northern Cyprus. Email: arran.fernandez@emu.edu.tr

Open Invited Track identification code: 1qg4d

Abstract:

This session will bring together researchers working on analytical and topological methods for fractional differential equations, to present and discuss recent mathematical developments and future directions of research. Many different ideas and methods have been applied to the mathematical study of fractional differential equations, and we aim to attract a broad spectrum of speakers and approaches and to encourage interdisciplinary collaborations. All relevant researchers are welcome, including post-doctoral fellows and graduate students.

Detailed description of the topic:

The related topics include but are not limited to:

- fractional initial value problems
- fractional boundary value problems
- fixed point theory for fractional differential equations
- Mikusinski's operational calculus
- existence-uniqueness results
- explicit solutions of fractional differential equations