February 3-4, 2022

#### **Department of Mathematics "Giuseppe Peano"**

#### **University of Torino**

#### Via Carlo Alberto 10, 10123 Torino, Italy

#### Hybrid Workshop

#### **General Info**

SA2022 is a workshop organized in collaboration with MathWorks, with the goal to bring together researchers working in different fields of approximation and implementing algorithms using in particular the Matlab software, and other programming languages.

Topics include but are not limited to: radial basis functions; schemes; kernel subdivision methods; meshless approximation and applications; frames; mathematical signal and image processing; computer aided design; approximation by sampling-type operators; time-frequency transforms; NURBS; wavelets; multi-resolution methods, polynomial and trigonometric approximation; quadrature and cubature formulas; numerical methods for integral equations; approximation algorithms for biological models; applications to AI and machine learning.

The workshop is organized within the activities of the network <u>RITA</u> (Rete ITaliana di Approssimazione), <u>UMI–TAA</u> working group (Unione Matematica Italiana – Gruppo di lavoro Teoria dell'Approssimazione e Applicazioni).

#### **Scientific and Organizing Committees**

R. Cavoretto, A. De Rossi, I. Notarangelo, S. Olivieri, P. Panarese, P. Vallauri, E. Venturino

## Local Organizers

T. Armano, R. Cavoretto, I. Cravero, A. De Rossi, P. Lamberti, S. Lancellotti, I. Notarangelo, S. Remogna, E. Venturino, A. Viscardi

## **Confirmed Speakers**

- Maria Carmela De Bonis (University of Basilicata)
- Filomena Di Tommaso (University of Calabria)
- Wolfgang Erb (University of Padova)
- Paolo Panarese (MathWorks)
- Milvia Rossini (University of Milano-Bicocca)
- Gabriele Santin (Bruno Kessler Foundation Trento)
- Alvise Sommariva (University of Padova)

## Registration

Participation in the workshop is free of charge, but registration is required. All people interested to take part in the workshop are invited to register by **DECEMBER 15, 2021**, filling in the registration form <u>HERE</u>.

## **Contributed Talks**

Participants interested to give a talk should send an abstract (max 1 page) by **DECEMBER 15, 2021**:

- 1. download the tex template file available **HERE**;
- 2. upload tex and pdf files of the abstract in the registration form.

## Sponsors

The workshop is supported by the GNCS-INdAM and the Department of Mathematics "Giuseppe Peano" of the University of Torino.

## Information

For any further information, email to

Roberto Cavoretto: roberto.cavoretto@unito.it

Alessandra De Rossi: alessandra.derossi@unito.it



**University of Torino** 



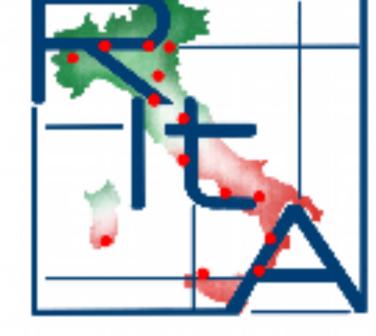
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# **GNCS-INdAM**

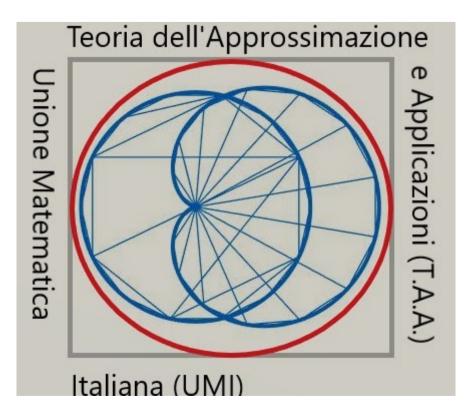
National Group for Scientific Computing





## **RITA**

# Research ITalian network on Approximation



Working Group UMI-TAA

Approximation Theory and Applications



**MathWorks**