

ABSTRACT SUBMISSION AND OTHER INFORMATION

The abstracts should be written in English and should have the maximum length of 1 page.

Please follow the Latex templates (**online submissions**):

MS-Contributed talk

Contributed talk

IMPORTANT

The authors of accepted abstracts at SIMAI 2018 are invited to submit a full paper to the SIMAI journal "Communications in Applied and Industrial Mathematics" (CAIM).

Published in association with De Gruyter, CAIM (<http://www.degruyter.com/view/j/caim>) is currently indexed in SCOPUS and in the ESCI (Emerging Sources Citation Index) database within Clarivate Analytics' (formerly Thomson Reuters') Web of Science

Submissions are open from June 1, 2018 until December 21, 2018. We strongly encourage early submissions from perspective authors. Publication of accepted papers in the current regular issue of CAIM is expected within 6 months from the submission date. Full papers can be submitted to CAIM using the journal electronic submission system at <http://http://caim.simai.eu/index.php/caim/about/submissions>

All manuscripts will be peer-reviewed according to the standard journal policies. The submitted article must contain original material not published before (except for the Book of Abstract of this conference) and must not be under consideration for publication elsewhere.

Only contributions presented at the conference will be published.

List of Mini Symposia

(some of them can be splitted in more parts)

Title	Proposers
01) Vortex Equilibrium and Dynamics in Geophysics	G. Riccardi, K.V. Koshel, S.V. Prants, M.A. Sokolovskiy
02) Recent Advances in Quasi-Interpolation and Applications	S. Remogna, A. Sestini
03) Networks in Biological Systems	G. Bretti
04) Non-standard Time Integration of Evolutionary Problems	R. D'Ambrosio, M. Lopez Fernandez
05) 3D Shape Reconstruction and Applications	E. Rodolà, S. Tozza
06) Function Approximation and Functional Equations: Theory, Numerical Methods and Applications	D. Conte, A. De Rossi, G. Milavanovich, D. Occorsio
07) Different Issues in Asymptotic Analysis and Material Sciences	M. Chipot, V. Valente, G. Vergara Caffarelli
08) Mathematical Modeling in Systems Biology	P. Palumbo, F. Papa
09) Attempts of a Mathematical Uprising for Restructuring Biomedical Sciences	D. Donatelli, C. Mascia
10) Mathematical Modelling and Computational Methods for the Cardiovascular System	F. Ballarin, S. Zonca
11) New Trends in Numerical Linear Algebra and Applications	D. Palitta
12) Advances in Mathematical Modeling in Biology and Medicine	A. Borri, L. Preziosi
13) Recent Advances in Nonconforming and Polygonal Methods for Partial Differential Equations	P.F. Antonietti, M. Verani, S. Scialò, P. Zanotti
14) Techniques and Mathematical Modeling for the Fruition of the Cultural Heritage	B. De Filippo, M. Briani
15) Mathematical Models in Life and Environmental Sciences	C. Giverso, M. Scianna
16) Mathematical Modeling of Environmental Problems	L. Preziosi, L. Raffaele

Title	Proposers
17) Computational Models in Medicine and Neuroscience	A. Pascarella, A. Sorrentino
18) Flow Modelling in Subsurface Porous Media and Applications	M. Berardi, F. Notarnicola
19) Healthcare and Medical Systems	P. Palumbo, V. Cusimano
20) Numerical Methods for Integral Equations and Applications	A. Aimi, M. Diligenti, C. Guardasoni
21) New Perspectives in Theory, Numerics and Applications of Nonlocal Operators	L. Aceto, R. Garrappa, R. Spigler
22) Mathematical Models for Heterogeneous Media in Applied Sciences	M. Amar, D. Andreucci
23) Mathematical Modeling of Charge Transport in Low Dimensional Structures	A. Majorana, O. Muscato
24) Research Patterns in Algebraic, Geometric and Analytical Fields	M. Imbesi, M. Versaci
25) Complexity Reduction: Mathematical Modelling and Control	S. Carillo, C. Giorgi
26) Large-Scale Optimization and Applications	B. Morini, L. Zanni
27) Discrete Mathematics, Number Theory and Applications to Control	A.C. Lai
28) Variational Approaches to Problems in Continuum Mechanics	V. Crismale, G. Lazzaroni
29) New Trends in Mathematical Models for Applications	A. Ciallella, S. Creo, P. Loreti
30) Modeling, Simulation and Data Analysis for Sport	O. Crivaro, E. Miglio, N. Parolini
31) Control and Inverse Problems for Evolution Equations	G. Floridia
32) Numerical Methods for Embedded Interfaces: Applications to Geoscience	L. Formaggia, A. Scotti, P. Zunino
33) EDU-SIMAI	E. De Angelis