

12th International Conference on Computational Heat,
Mass and Momentum Transfer
ICCHMT 2019

03-06 SEPTEMBER 2019

ROME

Rome is the capital of Italy and one of the most beautiful cities of Europe. It is an historical city that traces its origin in 753 a.C. and it was the capital of the biggest empire ever. That's why it is known as the eternal city and its cultural heritage finds no equals.



The Angels' Bridge with St. Peter's Basilica



Roman Forum

International/National Scientific Committee

Bayazitoglu, Y., Rice University, USA
Benim, A. C., Duesseldorf Univ. Applied Sciences, Germany
Bennacer R., ENS, Cachan, France
Biringen, S., University of Colorado, Boulder, USA
Bontoux, P., CNRS, les universités d'Aix Marseille, France
Butrymowicz, D., Białystok University of Technology, Poland
Cheng, P., Shanghai Jiaotong Univ. China
Chikh S., University USTHB, Algeria
Chorowski, M., Wrocław Univ. of Sci. & Tech., Poland
Chung, J. T., Korea Univ., Korea
Corcione, M., Sapienza Univ. Roma, Italy
Costa, V., University of Aveiro, Portugal
Cruchaga, M., Univ. de Santiago de Chile
De Lemos, M., Instituto Tecnológico de Aeronautica, Brazil
De Lieto Vollaro, R., Roma Tre University, Italy
Duic N., Zagreb University
Epple, B., Technical Univ. of Darmstadt, Germany
Ferreira, J., ANSYS Germany
Fue-Sang Lien, Univ. of Waterloo, Canada
Ghajar A., Oklahoma State University, USA
Gnutek Z., Wrocław University of Tech., Poland
Gross, U., TU Bergakademie Freiberg, Germany
Günes D., Bilgi University, Turkey
Hamed, M. S., McMaster Univ., Canada
He, Y-L, Jiaotong University, China
Jasak, H., Univ. of Zagreb, Croatia
Jin, Y., Zhejiang Sci-Tech Univ., China
Joos, F., Helmut Schmidt University, Germany
Kakac, S., TOBB Univ. of Econ and Tech, Turkey
Kanna, R.P., Velammal College of Engi. and Tech., India
Kim, H. D., Andong Nat'l Univ., Korea
Kim, S. J., KAIST, Daejeon, Korea
Kim, Y. J., Sungkyunkwan Univ., Korea
Kinoue, Y., Saga Univ., Japan
Li, J., Xi'an Jiaotong Univ., China
Lund, H., Aalborg University
Merlen, A., Univ. Sciences et Technologies de Lille, France
Nagano, Y., Nagoya Inst. of Tech., Japan
Nagatama, G., Kyushu Inst. of Tech., Japan
Ochoń, P., Cracow University of Tech., Poland
Ohara, T., Tohoku University, Japan
Oka, S., VINÇA Institute of Nuclear Sciences, Serbia
Olsen, J.E., SINTEF, Norway
Orfi, J., KSU, Saudi Arabia
Pasqualotto, E., ALSTOM, Switzerland
Pop, I., University of Cluj-Napoca, Romania
Saeid, N., Institut Teknologi Brunei
Suh, S.H., Soongsil University, Korea
Sunden, B., Lund University, Sweden
Sheremet, M. A., Tomsk State Univ., Russia
Suryan, A., College of Eng. Trivandrum, India
Syed, K.J., ALSTOM, Switzerland
Tao, WQ, Xian Jiaotong University, China
Taler, J., Cracow University of Tech., Poland
Taler, D., Cracow University of Tech., Poland
Rao R.V., SV NIT, India
Vallati, A., Sapienza Univ., Italy
Viskanta, R., Purdue University, USA
Wang, B.C., Univ. of Manitoba, Canada
Wang, G., Beijing Inst. Of Tech., China
Watanabe, S., Kyushu Univ., Japan
Wiedermann, A., MAN Diesel&Turbo, Germany
Yamamoto, K., Nagoya University, Japan
Yan J., KTH Royal Institute of Technology
Younis, L. B., SNC.LAVALIN, Calgary, Canada



Department of
Engineering
Roma Tre University
Rome, Italy



Department of
Astronautical,
Electrical and Energy
Engineering
Sapienza University
Rome, Italy



Institute of Thermal Power
Engineering
Faculty of Mechanical
Engineering
Cracow University of
Technology



Department of Mechanical and
Manufacturing Engineering
University of Calgary
Calgary, AB, Canada



First Call for Papers

12th International
Conference on
Computational Heat, Mass
and Momentum Transfer
ICCHMT 2019



Rome, Italy
03.09- 06.09 2019
www.icchmt2019.com



Key dates

- 01 Nov 2018 - 12 Apr 2019** - Abstract submission
17 May 2019 - Notification of acceptance
20 May 2019 - 16 June 2019 - Manuscript submission
17 June 2019 - 19 July 2019 - Manuscript review
02 Aug 2019 - Final paper submission
19 Aug 2019 - Publication of the conference programme

All papers, presentations and posters should be written in English. Instructions for authors can be found on the conference website. Full papers will be recommended to publication in Special Issues of ISI Journals.

Registration fee

Registration fee (before 01.08.2019)

Regular	550 EUR
PhD Student	400 EUR

Registration fee (after 01.08.2019)

Regular	600 EUR
PhD Student	450 EUR

Accompanying person fee 200 EUR

The registration fee covers:

- Participation in plenary and poster sessions,
- Conference proceedings,
- Meals, coffee breaks,
- Social programme

Objective

Computational techniques and methods are evolutionary field from macroscopic-level to nano-level, using continuum and discrete mechanics. It is necessary for scientist and engineers to come together every two years in a relaxed environment to discuss new ideas and developments in the area of computational methods and applications, especially in the topic of fluid dynamics, heat and mass transfer in non-reactive and reactive processes. Also, it is good opportunity for new scientist and engineer to explore the art of computational methods.

Conference History

- 1999 - Cyprus
- 2001 - Rio De Janeiro, Brazil
- 2003 - Banff, Canada
- 2005 - Paris, France
- 2007 - Canmore, Canada
- 2009 - Guangzhou, China
- 2011 - Istanbul, Turkey
- 2015 - Istanbul, Turkey
- 2016 - Cracow, Poland
- 2017 - Seoul, Korea
- 2018 - Cracow, Poland

Topics

Topics of the conferences are, but not limited to, the following:

Advanced Numerical Methods
Aeronautical and Space Applications
Bio-Fluidics and Biomedical Engineering
Bio-Inspired Flow and Heat Transfer
Complex Chemical Reaction Modeling
Compressible Flows
Convection and Buoyancy-Driven Flows
Double Diffusive Convection
Fluid Flow and Heat Transfer in Biomedical Devices and Biotechnology
Fluid Machinery
Granular Flows
Heat and Mass Transfer in Manufacturing and Materials Processing
Heat and Mass Transfer in Nuclear Applications
Heat and Mass Transfer in Particle-Laden Flows
Heat Exchangers / Heat Pipe
Internal Flow and Heat Transfer
Micro / Nano Heat and Mass Transfer
Mixing Devices and Phenomena
Multi-Phase Flows
Reactive Flows and Combustion
Steam and Gas Turbines
Technology for Renewable Energy Sources
Thermal Flow Visualization
Thermal Fluid Machinery
Transport Phenomena in Porous Media
Waste Management and Waste Disposal
Any Other Related Topics

Contact information:

- ICCHMT Conference Chair: Prof. A. A. Mohamad
University of Calgary, Canada
mohamad@ucalgary.ca
- ICCHMT Local Chair: Prof. Andrea Vallati
Sapienza University of Rome, Italy
Prof. Roberto de Lieto Vollaro
Roma Tre University, Italy
Prof. Jan Taler
Cracow University of Technology, Poland
- ICCHMT European Chair: Prof. Jan Taler
Cracow University of Technology, Poland
Prof. Ali Cemal Benim
Duesseldorf University of Applied Sciences, Germany
alicemal.benim@fh-duesseldorf.de

ICCHMT Honorary Advisory Board:

Prof. Andrea de Lieto Vollaro
La Sapienza University of Rome, Italy
andrea.delietovollaro@uniroma3.it

Prof. Aldo Fanchiotti
Roma Tre University, Italy
aldo.fanchiotti@uniroma3.it

Prof. Massimo Corcione
La Sapienza University of Rome, Italy
massimo.corcione@uniroma1.it

Prof. Livio de Santoli
La Sapienza University of Rome, Italy
livio.desantoli@uniroma1.it

Prof. Francesco Asdrubali
Roma Tre University, Italy
francesco.asdrubali@uniroma3.it

Prof. Pawel Oclon
Cracow University of Technology, Poland
poclon@mech.pk.edu.pl

Local Organizing Committee:

Annunziata D'orazio, DIAEE Sapienza University of Rome, Italy
Chiara Colucci, DIAEE Sapienza University of Rome, Italy
Elisa Ricci, DIAEE Sapienza University of Rome, Italy
Emanuele Habib, DIAEE Sapienza University of Rome, Italy
Fabio Bisegna, DIAEE Sapienza University of Rome, Italy
Gabriele Battista, Roma Tre University, Italy
Giuseppe Piras, DIAEE Sapienza University of Rome, Italy
Luca Cedola, DIMA Sapienza University of Rome, Italy
Luca Mauri, Roma Tre University, Italy
Marcin Pilarczyk, Cracow University of Technology, Poland
Marek Majdak, Cracow University of Technology, Poland
Marta Cianfrini, Roma Tre University, Italy
Piotr Cisek, Cracow University of Technology, Poland
Vincenzo Spena, DIAEE Sapienza University of Rome, Italy

General Scientific Secretary

Prof. Roberto de Lieto Vollaro, Roma Tre University
roberto.delietovollaro@uniroma3.it
Prof. Andrea Vallati, Sapienza University
andrea.vallati@uniroma1.it

Scientific Secretary

Gabriele Battista, PhD, Roma Tre University
gabriele.battista@uniroma3.it

Financial department

Laura Grossi, Roma Tre University
laura.grossi@uniroma3.it

Department of Engineering, Roma Tre University
Via della Vasca Navale 79
00146 Rome, Italy