

Conference Announcement



Advances in Applications of Analytical Methods for Solving Differential Equations (AAAMSDE2024)

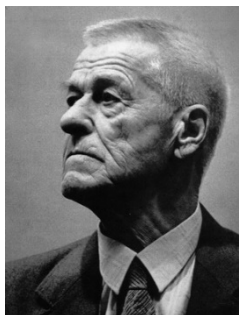
A Hybrid Conference
January 22-25, 2024

Suranaree University of Technology
Nakhon Ratchasima, Thailand

Organized jointly with

Department of Mathematical Sciences, Stellenbosch
University, South Africa

Lavrentyev Institute of Hydrodynamics
Russian Academy of Sciences



L.V.Ovsiannikov (1919-2014)

Dear Friends, Colleagues and Researchers,

In January 2019, the School of Mathematics at Suranaree University of Technology hosted the conference '*Modern Treatment of Symmetries, Differential Equations and Applications (Symmetry 2019)*' on occasion of Academician *Lev V. Ovsiannikov*'s 100th birthday anniversary, in August 2021 the conference '*Analytical and Numerical Methods in Differential Equations (Yanenko100, AMNDE2021)*' on occasion of Academician *Nikolai N. Yanenko*'s 100th birthday anniversary. In response to numerous requests for a follow-up, in December 2022 we organized the conference '*Modern Achievements in Symmetries of Differential Equations (Symmetry 2022)*'. We are pleased to announce the conference '*Advances in Applications of Analytical methods in Solving Differential Equations (AAAMSDE2024)*', which will be held during 22-25 January 2024. Due to ongoing concerns of travel difficulties, it will be held as a hybrid conference: while all presentations will be given online by Zoom video conferencing, interested participants are invited to travel to Suranaree University of Technology and meet in person.

The aim of the conference is to stimulate discussions of new ideas, applications analytical methods for analysis of problems of nonlinear differential equation with local and nonlocal terms in mathematical modeling. We hope to attract a wide audience of experts in the subject, and young scientists and graduate students interested in the analysis of nonlinear equations.

Contributed Papers:

The conference organizers are inviting 20-30 minute oral presentations on research work related with the main conference topics. Contributed papers related with the general theory of differential equations are also welcome. ***Abstracts of no more than 1 page in length should be submitted as early as possible, but not later than 20 December 2023*** to be considered for inclusion in the conference program. ***Notification of acceptance for presentation will be sent out within two weeks of receipt of the abstract.*** The LaTeX abstract template can be found at <https://math.sut.ac.th/conference4/symmetry2022abstract.zip>. Abstract sub-mission is independent of registration.

Please submit your abstract by e-mail to:

[*symmetry.sut2024@gmail.com*](mailto:symmetry.sut2024@gmail.com)

no later than 20 December 2024

in form of a LaTeX document using the template available at

[*https://math.sut.ac.th/conference4/symmetry2024abstract.zip*](https://math.sut.ac.th/conference4/symmetry2024abstract.zip)

Main Conference Topics:

1. Symmetries of difference and differential and equations, with nonlocal terms as well
2. Analytical methods of integration of systems of equations
3. Application of group analysis to new mathematical models and nonlinear problems.
4. Mathematical modeling.
5. Applications of analytical methods to problems in Science and Engineering.

Scientific Committee:

- Aptekarev, Alexander I.; Keldysh Institute of Applied Mathematics, Russian Academy of Sciences, Moscow, Russia
- Bluman, George W.; Department of Mathematics, University of British Columbia, Vancouver, BC V6T1Z2, Canada
- Dorodnitsyn, Vladimir A.; Keldysh Institute of Applied Mathematics, Russian Academy of Sciences, Moscow, Russia
- Ferapontov, Evgeny V.; Loughborough University, UK
- Filimonov, Mikhail Yu.; Institute of Mathematics and Mechanics, Russian Academy of Sciences, Yekaterinburg, Russia
- Gavriilyuk, Sergey L.; Institut Universitaire des Systèmes Thermiques Industriels, Marseille, France
- Grigoriev, Yurii N.; Institute of Computational Technologies, Russian Academy of Sciences, Novosibirsk, Russia
- Ibragimov, Ranis N., University of Wisconsin-Parkside, USA
- Leach, Peter G.L.; Durban University of Technology, South Africa
- Luo, Albert; Southern Illinois University at Edwardsville, USA
- Makarenko, Nikolay I.; Lavrent'ev Institute of Hydrodynamics, Russian Academy of Sciences, Novosibirsk, Russia
- Meleshko, Sergey V.; Suranaree University of Technology, Thailand
- Moshkin, Nikolay P.; Lavrent'ev Institute of Hydrodynamics, Russian Academy of Sciences, Novosibirsk, Russia

- Moyo, Sibusiso; Stellenbosch University, South Africa
- Olver, Peter J.; University of Minnesota Twin Cities, USA
- Pukhnachev, Vladislav V.; Lavrent'ev Institute of Hydrodynamics, Russian Academy of Sciences, Novosibirsk, Russia
- Rogers, Colin; University of New South Wales, Sydney, Australia
- Saccomandi, Giuseppe; Università degli Studi di Perugia, Italy
- Schulz, Eckart; Suranaree University of Technology, Nakhon Ratchasima, Thailand
- Tanthanuch, Jessada; Suranaree University of Technology, Nakhon Ratchasima, Thailand
- Webb, Gary; University of Alabama in Huntsville, USA

Conference Proceedings:

It is planned to publish a conference proceedings volume in De Gruyter Proceedings in Mathematics, which is indexing in Scopus. The Only papers presented at the conference will be published. Further details will be made available during the conference.

Registration and Conference Fees:

There is no registration fee for off-site (online) participation. Participants wishing to present a paper need to register by 30 November 2022.

Local Accommodation:

For those wishing to participate on site, we strongly recommend staying at the university hotel (“Surasammanakhan”) because of the university’s remote location. The hotel’s standard rooms feature twin beds, and costs are about US\$45.- per night, single or double occupancy.

Reservations can be made through the local conference organizers; please send you inquiry to symmetry.sut2024@gmail.com.

How to contact:

The conference website <http://math.sut.ac.th/conference/> will be updated regularly to reflect the latest developments. For inquiries, or to submit your abstract, please send e-mail to symmetry.sut2024@gmail.com.

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Please feel free to disseminate this information among your colleagues.

Cordially,

The Local Organizing Committee