

**INTERNATIONAL CONFERENCE
DIFFERENTIAL EQUATIONS AND
DYNAMICAL SYSTEMS**

5.9.2019 – 07.9.2019

Xuan Hoa, Vinh Phuc, Vietnam

PROGRAM

XUAN HOA, 2019

Thursday, September 5, 2019

Morning

08:15 – 09:00 **Registration**

09:00 – 09:15 **Opening**

Session: Slow-fast systems

Chair: **Tran Van Bang** (Hanoi Pedagogical University 2)

9h15 - 10h00 **Peter De Maesschalck** (Hasselt University)
Asymptotic lower bounds on Hilbert numbers using canard cycles

10:15 – 10:30 **Coffee break**

10h30 - 10h50 **Doan Thai Son** (Institute of Mathematics, VAST)
Gevrey normal form for unfoldings of nilpotent contact points of planar slow fast systems

10h55 - 11h15 **Jeroen Wynen** (Hasselt University)
Transition map near non-elementary singularities using semi-local normal forms

11h20 - 11h40 **Karel Kennens** (Hasselt University)
Gevrey asymptotic properties of slow manifolds

11:40 – 14:00 **Lunch**

Afternoon

Session: Partial differential equations (I)

Chair: **Nguyen Dinh Cong** (Institute of Mathematics, VAST)

- 14h00 - 14h45 **Do Hoang Son** (Institute of Mathematics, VAST)
A viscosity approach to the Dirichlet problem for degenerate complex Hessian type equations
- 15:00 – 15:15 **Coffee break**
- 15h15 - 15h35 **Khuat Van Ninh** (Hanoi Pedagogical University 2)
Parameter continuation method for solving Fredholm intrgral equations of the second kind
- 15h40 - 16h00 **Tran Dinh Ke** (Hanoi University of Education)
On a class of nonlocal differential equations
- 16h05 - 16h25 **Dang Thi Phuong Thanh** (Hung Vuong University)
Asymptotic behavior of solutions to Navier - Stokes - Voigt equations with infinite delay
- 16h30 - 16h50 **Luong Thai Hung** (Institute of Mathematics, VAST)
(In)stability and asymptotic analysis of the Zakharov-Rubenchik system and related wave type equation
- 16h50 - 17h15 **Bui Kim My** (Hanoi Pedagogical University 2)
Continuous data assimilation for the three-dimensional Leray α model with stochastically noisy data
- 18h00 - 21h00 : **Banquet**

Friday, September 6, 2019*Morning***Session: Control and Optimization**Chair: **Doan Thai Son** (Institute of Mathematics, VAST)

9h00 - 9h45 **Nguyen Van Tuyen** (Hanoi Pedagogical University 2)
Second-order subdifferentials and its applications

10:00 – 10:15 **Coffee break**

10h15 - 10h35 **Nguyen Nang Tam** (Hanoi Pedagogical University 2)
On structural convexity and ravines of quadratic functions

10h40 - 11h00 **Nguyen Trung Dung** (Hanoi Pedagogical University 2)
Asynchronous control of discrete-time stochastic bilinear systems with Markovian switchings

11h05 - 11h35 **Le Xuan Thanh** (Institute of Mathematics, VAST)
Robust solutions to storage loading problems under uncertainty

11h35 - 11h55 **Hoang Phi Dung** (Posts and Telecommunications Institute of Technology)
Fedoryuk values and stability of global Holderian error bounds for polynomial functions

11h55 - 12h15 **Khong Chi Nguyen** (Tan Trao Univeristy)
On stability, Bohl exponent and Bohl-Perron theorem for Implicit dynamic equations

12:15 – 14:00 **Lunch**

Afternoon

Session: Partial differential equations (II)

Chair: **Tran Dinh Ke** (Hanoi University of Education)

14h00 - 14h45 **Cung The Anh** (Hanoi University of Education)

Global attractor for a family of Navier-Stokes-alpha-like models

15:00 – 15:15 **Coffee break**

15h15 - 15h35 **Tran Van Bang** (Hanoi Pedagogical University 2)

Some results on viscosity solutions to nonlinear differential equations in Banach spaces

15h40 - 16h00 **Nguyen Thi Kim Son** (Hanoi Metropolitan University)

Uncertain fractional evolution equations with non - Lipschitz condition: A fixed point theorem of condensing mappings approach

16h05 - 16h25 **Do Thai Duong** (Institute of Mathematics, VAST)

A comparison theorem for subharmonic functions

16h30 - 16h50 **Phan Trong Tien** (Quang Binh Univeristy)

Uniqueness of β -viscosity solutions of Hamilton-Jacobi equations and applications to a class of optimal control problems