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9th Workshop on Control of Distributed Parameter Systems

Program and Abstract



June 29th - July 3rd, 2015, Beijing, China



Welcome to CDPS 2015

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About the CDPS

CDPS

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CDPS Conference History

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CDPS Steering Committee

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Conference Information

CDPS Organizing Committee

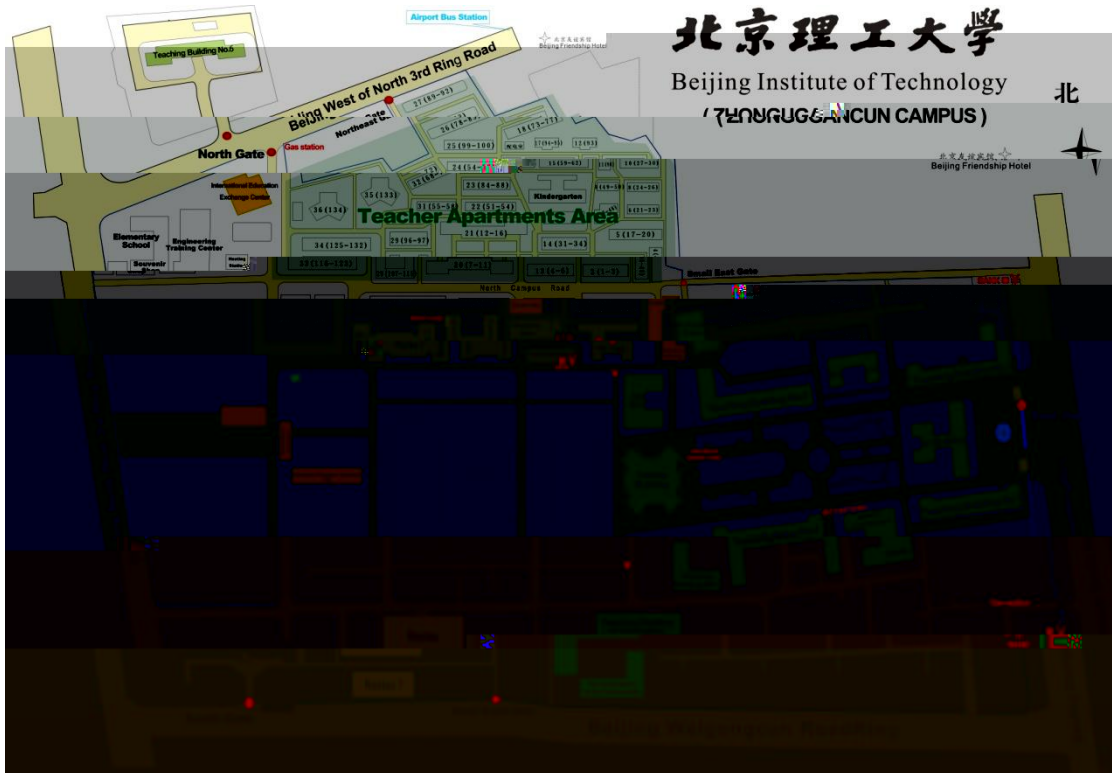
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Venue

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Registration

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Sponsors

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Academy of Mathematics and Systems Science
Chinese Academy of Sciences



National Natural Science Foundation of China

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Technical Program

Monday June 29, 2015

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Morning Session (08:30-12:10, Chair: Hans Zwart)

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Afternoon Session (14:30-18:10, Chair: George Weiss)

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Tuesday June 30, 2015

Morning Session (08:30-12:10, Chair: Yutaka Yamamoto)

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Afternoon Session (14:30-18:10, Chair: Bingyu Zhang)

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Thursday July 2, 2015

Morning Session (08:30-12:10, Chair: Sergei A. Avdonin)

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Afternoon Session (14:30-18:10, Chair: Denis Matignon)

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Friday July 3, 2015

Morning Session (08:30-12:10, Chair: Zhuangyi Liu)

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Afternoon Session (14:30-18:10, Chair: Bao-Zhu Guo)

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Program and Abstract

Technical Program for Monday June 29, 2015

08:00-08:30

Welcome and Opening of CDPS 2015

Chair: **Bao-Zhu Guo**

08:30-12:10

Morning Session

Chair: **Hans Zwart**

08:30-09:10

MoA01

Tatsien Li

Fudan University

09:10-09:50

MoA02

George Weiss

Tel Aviv University

fluid occupying a bounded domain Ω , wit

$\in \Omega$. If the

is jumping between a finite number of points in Ω , that depend on h (a switching

09:50-10:10

Tea Break

For a standard optimal control problem of evolution equations, by applying Pontryagin's

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11:30-12:10

MoA05

Goong Chen

Texas A&M University

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15:10-15:50

MoB02

Memory-Type Null Controllability of Evolution Equations

Xu Zhang

Sichuan University

15:50-16:10

Tea Break

16:10-16:50

MoB03

Bernhard Maschke

several examples; In a second instance, we shall analyze the passivity and system's

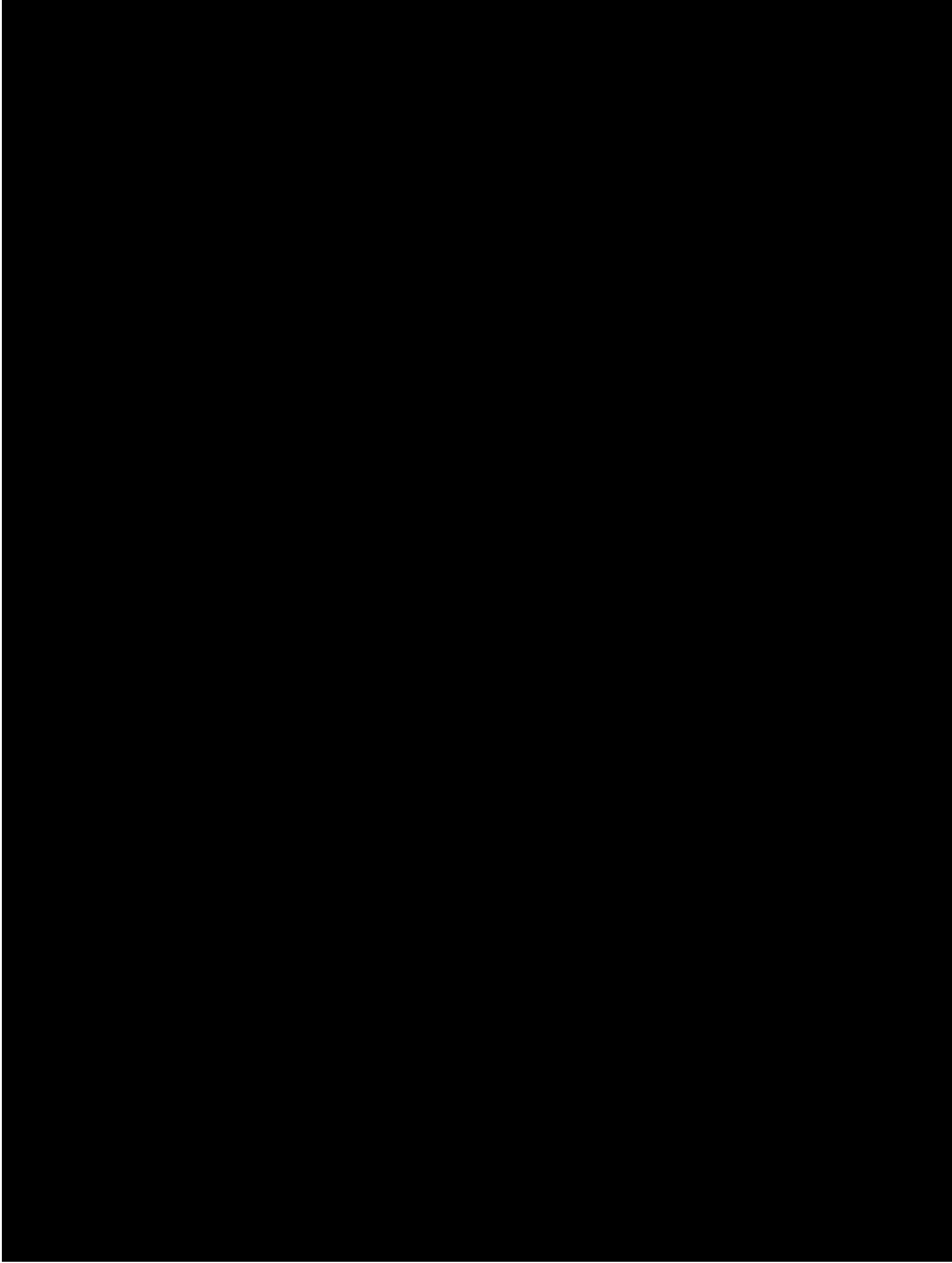
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Shige Peng

Shandong University

09:10-09:50

TuA02

Hans Zwart

University of Twente

s (ode's) it is well&

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For partial differential equations (pde's) a similar result is known for decades. However,

when these conditions don't hold.

09:50-10:10

Tea Break

10:10-10:50

TuA03

Andras Balogh

University of Texas - Pan Americ

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10:50-11:30

TuA04

Lionel Rosier

Ecole des Mines de Paris

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11:30-12:10

TuA05

Qihong Chen

Shanghai University of Finance and Economics

12:10-14:30

Lunch Time

14:30-18:10

Afternoon Session

Chair: **Bingyu Zhang**

14:30-15:10

TuB01

Serge Nicaise

Université de Valenciennes et du Hainaut Cambrésis

+ +

15:10-15:50

TuB02

Zhuangyi Liu

University of Minnesota - Duluth

15:50-16:10

Tea Break

16:10-16:50

TuB03

Kenji Kashima

<http://authors.elsevier.com/a/1QqIZ1AMujK3M>

16:50-17:30

TuB04

Cheng-Zhong Xu

Université Lyon 1

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17:30-18:10

TuB05

Hongwei Lou

Fudan University

Technical Program for Thursday July 2, 2015

08:30-12:10

Morning Session

Chair: **Sergei A. Avdonin**

08:30-09:10

ThA01

Recent Developments on Robust Regulation of Infinite-Dimensional Systems

Seppo A. Pohjolainen

Tampere University of Technology

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Shanjian Tang

Fudan University

suitable conditions, we prove that the value field $V(t, x, \Omega), (t, x, \Omega)$
 Ω , is qua

$$K_t = K_0 - \int_0^t dk_s + \int_0^t \sum_{i=1}^d L_s^i dW_s^i, \quad t \in [0, T]$$

$$\int_0^t \sum_{i=1}^d L_s^i dW_s^i$$

09:50-10:10

Tea Break

10:10-10:50

ThA03

Kazufumi Ito

North Carolina State University

10:50-11:30

ThA04

Bopeng Rao

Université de Strasbourg

11:30-12:10

ThA05

Hang Gao

Northeast Normal University

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12:10-14:30

Lunch Time

14:30-18:10

Afternoon Session

Chair: **Denis Matignon**

14:30-15:10

ThB01

Control and Inverse Problems for Networks of Vibrating Strings with Attached Masses

Sergei A. Avdonin

University of Alaska

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15:10-15:50

ThB02

Gengsheng Wang

Wuhan University

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15:50-16:10

Tea Break

16:10-16:50

ThB03

From a Canonical Factorization to a J-spectral Factorization for a Class of Infinite-Dimensional Systems

Orest V. Iftime

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Technical Program for Friday July 3, 2015

08:30-12:10

Morning Session

Chair: **Zhuangyi Liu**

08:30-09:10

FrA01

Arnaud Münch

Universite Blaise Pascal, Clermont-Ferrand

wave equation posed in Ω

Ω a bounded subset of \mathbb{R}^N &

$\partial\Omega$ smooth

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09:10-09:50

FrA02

Why We Need Riemannian Geometry for Control of the Wave Equation with Variable Coefficients

Pengfei Yao

Academy of Mathematics and Systems Science

09:50-10:10

Tea Break

10:10-10:50

FrA03

Noboru Sakamoto

Nagoya University

&

10:50-11:30

FrA04

Bingyu Zhang

University of Cincinnati

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11:30-12:10

FrA05

Enming Feng

Dalian University of Technology

12:10-14:30

Lunch Time

14:30-18:10

Afternoon Session

Chair: **Bao-Zhu Guo**

14:30-15:10

FrB01

Ionel Roventa

University of Craiova

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15:10-15:50

FrB02

Shuzhi Sam Ge/Wei He

National University of Singapore

structures will produce excessive vibrations, which make a negative effect on the system's

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Hamilton's principle. Lyapunov method is used for stability analysis for the closed loop

15:50-16:00

Closing Session

Chair: **Bao-Zhu Guo**