Functional Analysis and Applications – Evolution Equations and Control Theory –

In honor of Prof. Shin-ichi Nakagiri on the occasion of his retirement

Kobe University, Kobe, Japan

February 11 - 13, 2013

Scientific Committee:

Minoru Tabata (Osaka Prefecture University) Yuki Naito (Ehime University) Ken Shirakawa (Chiba University)

Organizing Committee:

Takao Nambu (Kobe University) Hideki Sano (Kobe University) Goro Akagi (Kobe University)

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Website: http://www2.kobe-u.ac.jp/~akagi56/conf/faa12/

Date and Venue

Date: February 11-13, 2013

Venue: Takikawa Memorial Hall, Kobe University, 1-1 Rokkodai-cho, Nada-ku, Kobe 657-8501 JAPAN

Program

Monday: 11 February

13:00 -	- 13:10	Opening
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- 13:10 13:50 Motofumi Hattori (Kanagawa Institute of Technology, Japan) Numerical simulations for the Navier-Stokes equation by moving particle semi-implicit method
- 13:55 14:35 Hiroki Hoshino (Fujita Health University, Japan) Perturbations of smooth traveling wave solutions to a mathematical model of malignant tumor invasion
- 14:40 15:20 Fumio Kojima (Kobe University, Japan) Reliability assessment of nondestructive testing using probability of detection
- $15:20-15:35 \quad {\rm Coffee \ Break}$
- 15:35 16:15 Masahiro Yamamoto (The University of Tokyo, Japan) Observability, approximate controllability, identifiability and inverse problems for fractional diffusion equations
- 16:20 17:00 Junhong Ha (Korea University of Technology and Education, Korea) Stability of shallow archs with the time independent symmetric load
- 17:05 17:45 Seungjae Lee and Sudeok Shon (Korea University of Technology and Education, Korea) Nonlinear dynamic analysis of multistage Homotopy Perturbation Method

Tuesday: 12 February

09:00 - 09:40	Koji Kikuchi (Shizuoka University, Japan) A Remark on an evolution equation having a strong viscosity term
09:45 - 10:25	Takashi Senba (Kyushu Institute of Technology, Japan) On the behavior of radial solutions to a simplified Keller-Segel system
10:25 - 10:40	Coffee Break
10:40 - 11:20	Kimiaki Narukawa (Naruto University of Education, Japan) Global results on the existence of positive solutions for quasilinear elliptic equations with nonlinear boundary conditions
11:25 - 12:05	Tadashi Kawanago (Tokyo Institute of Technology, Japan) Remarks on some Hopf bifurcation theorems
12:05 - 13:45	Lunch Break
13:45 - 14:25	Shoji Yotsutani (Ryukoku University, Japan) Linearized eigen-value problem arising in a cross-diffusion system
14:30 - 15:10	Yoshio Yamada (Waseda University, Japan) On logistic diffusion equations with nonlocal effects
15:10 - 15:25	Coffee Break
15:25 - 16:05	Hiroki Tanabe (Professor Emeritus at Osaka University, Japan) Retarded functional differential equations of degenerate type
16:10 - 16:50	Atsushi Yagi (Osaka University, Japan) Stochastic Forest Model
16:55 - 17:35	Shin-ichi Nakagiri (Kobe University, Japan) Structural properties of solution semigroups for hyperbolic Volterra integro-differential systems

 $19:00-21:00 \quad \mathrm{Banquet}$

Wednesday: 13 February

10:00 - 10:40	Goro Akagi (Kobe University, Japan) Stability analysis of asymptotic profiles for fast diffusion
10:45 - 11:25	Ken Shirakawa (Chiba University, Japan) A nonstandard parabolic system associated with grain boundary motion
11:30 - 12:10	Katsuyuki Ishii (Kobe University, Japan) An approximation scheme for the planar motion by crystalline curvature
12:10 - 13:45	Lunch Break
13:45 - 14:25	Yoshitsugu Kabeya (Osaka Prefecture University, Japan) Structures of bifurcation diagrams for a nonlinear elliptic equaiton on a spherical cap
14:30 - 15:10	Yoshihisa Nakamura (Kumamoto University, Japan) Scattering theory for the matrix-valued nonlinear Schrödinger equation
15:15 - 15:55	Takeshi Wada (Kumamoto University, Japan) On well-posedness for nonlinear Schrödinger equations with power nonlinearity in fractional order Sobolev spaces

15:55 - 16:00 Closing