

Dynamics of Functional Equations and Numerical Simulation

Monday, October 31, 2005 – Friday, November 4, 2005
Room 420, Research Institute for Mathematical Sciences (RIMS)
Kyoto University

Organizers: Tadayuki Hara
(Osaka Prefecture Univ.)

Program

Monday, October 31

- 14:00 ~ 14:30 Shingo Iwami (Osaka Prefecture Univ.)
Global stability analysis of epidemic model
- 14:30 ~ 15:00 Hiroyuki Usami (Hiroshima Univ.)
Tomomitsu Teramoto (Onomichi Univ.)
Large solutions of second order quasilinear elliptic systems
- 15:15 ~ 15:45 Takashi Yamazaki (Kanazawa Univ.)
Numerical simulation to the hyperbolic free boundary problem with
volume constraint
- 15:45 ~ 16:15 Svadlenka Karel (Kanazawa Univ.)
Numerical solution of a free-boundary problem modelling the inter-
action of a rubber film and an obstacle
- 16:30 ~ 17:00 Masahisa Tabata (Kyushu Univ.)
Numerical analysis of Rayleigh-Taylor instability problem

Tuesday, November 1

- 10:00 ~ 10:30 Katsuyoshi Ohara (Kanazawa Univ.)
Comparison of numerical methods of 1-dimensional free boundary problem with time development
- 10:30 ~ 11:00 Tsuyoshi Yoneda (Osaka Kyoiku Univ.)
On the functional differential equation with the infinite series
- 11:10 ~ 11:50 Yoshihiro Sawano (Univ. of Tokyo)
Tsuyoshi Yoneda (Osaka Kyoiku Univ.)
Quarkonial decomposition and its application to the delay equation
- 13:30 ~ 14:00 Pham Huu Anh Ngoc (Hue University, Vietnam)
Stability radii of positive linear systems
- 14:00 ~ 14:50 Yutaka Kamimura (Tokyo Univ. of Marine Sci. and Tech.)
Reconstruction of a current from tracer observation
- 15:05 ~ 15:35 Aya Yamaguchi (Shimane Univ.)
Classification of global phase portraits of half-linear differential equations with constant coefficients
- 15:35 ~ 16:05 Masakazu Onitsuka, Jitsuro Sugie (Shimane Univ.)
Asymptotic behavior of solutions of half-linear differential equations with variable coefficients
- 16:20 ~ 16:50 Jong Son Shin, Toshiki Naito (Univ. of Electro-Communications)
The boundedness of solutions to periodic linear differential equations

Wednesday, November 2

- 10:00 ~ 10:25 Mami Suzuki (Aichi Gakusen Univ.)
Analytic solutions for second order nonlinear difference equations whose eigenvalues are 1
- 10:25 ~ 10:55 Yoshiaki Muroya (Waseda Univ.)
Emiko Ishiwata (Tokyo Univ. of Science)
Global stability for nonlinear difference equations with variable coefficients

- 11:00 ~ 12:00 [Special Session] Minoru Tabata (Osaka Prefecture Univ.)
A geometrical similarity between diffusion of biological particles and migration of human population in mathematical sociology, part 1
- 13:30 ~ 14:30 [Special Session] Minoru Tabata (Osaka Prefecture Univ.)
A geometrical similarity between diffusion of biological particles and migration of human population in mathematical sociology, part 2
- 14:45 ~ 15:15 Keita Ashizawa, Rinko Miyazaki (Shizuoka Univ.)
Asymptotic behavior and adjacency matrices in 3-node
- 15:15 ~ 16:45 Rinko Miyazaki (Shizuoka Univ.)
Instability of periodic solutions in delay differential equations
- 16:00 ~ 16:30 Kohei Matsumura, Naoto Yamaoka, Jitsuro Sugie (Shimane Univ.)
Oscillation problems for half-linear differential equations with periodic damping
- 16:30 ~ 17:00 Yuki Naito (Kobe Univ.)
Satoshi Tanaka (Okayama Univ. of Science)
Existence of solutions with prescribed numbers of zeros of boundary value problems for ordinary differential equations with the one-dimensional p -Laplacian

Thursday, November 3

- 10:00 ~ 10:30 Hidekazu Asakawa (Gifu Univ.)
On Liouville transform for ODEs corresponding to semilinear elliptic equations
- 10:30 ~ 11:00 Tetsutaro Shibata (Hiroshima Univ.)
Asymptotic behavior of solutions to nonlinear eigenvalue problems
- 11:10 ~ 11:50 Shin-ichi Nakagiri (Kobe Univ.)
Nonconvex cost optimal control problems for semilinear second order evolution equations
- 13:30 ~ 14:00 Ryusuke Kon (Kyushu Univ.)
Global stability of periodic difference equations and its application to age-structured population models

- 14:00 ~ 14:30 Hideo Miki (Keio Univ.)
Kiyoyuki Tchizawa (Musashi Institute Technology)
Hisakazu Nishino (Keio Univ.)
Duck solutions in a four-dimensional dynamic economic model
- 14:45 ~ 15:25 Shuya Kanagawa (Musashi Institute Technology)
Nonlinear Schrödinger equation for nearly bichromatic waves induced
by wave equations
- 15:25 ~ 16:15 Kiyoyuki Tchizawa (Musashi Institute Technology)
Bifurcation delay in delay differential equations

Friday, November 4

- 10:00 ~ 10:25 Yasuaki Shinohara (Univ. of Yamanashi)
Existence theorems of quaiperiodic solutions to nonlinear differential
difference equations and Galerkin's approximate method
- 10:25 ~ 10:50 Seji Saito (Osaka Univ.)
Hiroaki Ishii (Osaka Univ.)
On variational equations of fuzzy differential equations
- 11:00 ~ 11:30 Makoto Hayashi (Nihon Univ.)
On the Liénard system with two isoclines
- 11:30 ~ 12:00 Tadayuki Hara (Osaka Prefecture Univ.)
Asymptotic stability for linear differential systems with delays in
diagonal terms

Last update: October 3, 2005