

力学系通信

NO. 19 (1993/06)

力学系通信 NO.19 をお送りします。

相変わらず、情報の集まりが極めて悪いという状況が続いております。近況、研究集会、プレプリント情報などを、是非、私宛にお送り下さるようお願いいたします。

笹野 一洋

e-mail : ksasano@tansei.cc.u-tokyo.ac.jp

FAX : 0764-34-4656 (「数学・笹野」宛にお願いします。)

snail mail: 〒930-01 富山市杉谷2630

富山医科薬科大学 数学教室

tel : 0764-34-2281 ext. 2740

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訃報

京都大学・理学部・数学教室の足立正久先生が、去る3月24日に亡くなられました。慎んでご冥福をお祈り申し上げます。

購読者リスト作成アンケートについて

前号にてお願いいたしました「購読者アンケート」ですが、回答の回収率が良くありません。回答を頂けない場合、購読継続の意思なしと看做し、送付を中止させて頂くことも考えておりますので、是非回答をお送りくださいますようお願い申し上げます。なお、5月末日現在、次の方々からご回答を頂いております。(敬称略)

by e-mail

吉永 哲哉, 徳永 隆治, 柴山 健伸, 藤村 雅代

by snail-mail

足立俊明, 稲葉尚志, 井上友喜, 印南信宏, 岡 宏枝, 加藤和久, 河村新蔵,
倉田雅弘, 国府寛司, 白岩謙一, 鈴木正昭, 高橋陽一郎, 辻井正人, 仲田均,
中根 静男, 森 真, 盛田 健彦

なお、4 ページに「購読者リスト作成アンケートフォーム」をもう一度掲載しておきます。

近況

井上友喜氏 愛媛大学工学部情報工学科に就職 (93/04)

中根静男氏 (東京工芸大学) IHES に滞在 (93/04-94/03)

藤村雅代氏 日本大学理工学部数学教室に就職 (93/04)

酒井一博氏 神奈川大学工学部に転勤 (93/04)

学会・シンポジウム情報 (国内)

エルゴード理論93年度サマーセミナー

1993年7月26日-29日 大阪商工会議所賢島研修センター (三重県志摩郡阿児町)

問い合わせ: 伊藤俊次氏 (津田塾大学)

「ツイストマップとその周辺」研究集会

1993年10月 鳴戸教育大学

問い合わせ: 松岡隆氏 (鳴戸教育大学)

Foliation Tokyo

1993年11月15日-19日 東京工業大学

問い合わせ: 松元重則氏 (日本大学)

International conference on dynamical systems and chaos

1994年5月23日-27日 東京都立大学

問い合わせ: 白岩謙一氏 (東京理科大学)

学会・シンポジウム情報 (国外)

Chaotic numerics

1993/07/12-16, Deakin University, Geelong, Australia ... 巻末資料参照

International conference/Workshop on Dynamical System

1993/08/02 - 08/15, IMPA

FRACTAL 93 "Fractals in the Natural and Applied Sciences"

1993/09/07-10, London, England

Congress on Periodic Orbits of Dynamical Systems

1993/09/27-10/01, Luminy, France (near Marseille)

International Symposium on Nonlinear Theory and its Applications ... 卷末資料参照

1993/12/05-09, Sheraton Waikiki Hotel, HAWAII

Conference on the interaction between functional analysis, Harmonic Analysis, and Probability
... 卷末資料参照

1994/05/30-06/03, University of Missouri

学会・シンポジウム報告

国府寛司氏より、以下のシンポジウム等の報告が寄せられました。巻末に資料を添付しておきます。

International Conference on "Bifurcations in differentiable dynamics"

June 09-13, 1992 [Limburgs Universitair Centrum]

Workshop on Dynamical Systems

August 3-8, 1992 [Porto]

SIAM Conference on Applications of Dynamical Systems

October 15-19, 1992 [Snowbird, Utah]

Dynamical Systems and Bifurcation Theory

August 1992 to June 1993

[The Fields Institute for Research in Mathematical Sciences]

プレプリント情報

([] 内は、所有者 (敬称略))

[稲葉 尚志 (千葉大学教養部数学教室)]

C. Bonatti et `R. Langevin, Un exemple de flot d'Anosov transitif transverse à un tore et non conjugué à une suspension.

購読者リスト作成アンケートフォーム

氏名（ふりがな）：

大学・学部・学科：

職名（大学院生の場合は、学年）：

大学住所（〒をお忘れなく）：

大学電話番号：

e-mail address：

FAX 番号：

自宅住所（〒をお忘れなく：この項目は必ずしも答える必要はありません）：

自宅電話番号（この項目は必ずしも答える必要はありません）：

CHAOTIC NUMERICS

An International Workshop on the Approximation and
Computation of Complicated Dynamical Behaviour

12 — 16 JULY 1993

DEAKIN UNIVERSITY, GEELONG, AUSTRALIA



KEYNOTE SPEAKERS

W. J. Beyn University of Bielefeld
S. N. Chow Georgia Institute of Technology
J. Hale Georgia Institute of Technology
J. Lorenz University of New Mexico

PROGRAM COMMITTEE

P. Kloeden (Geelong) K. Palmer (Miami)
K. Burrage (Brisbane) A. Pokrovskii (Moscow)

Each keynote speaker and other invited speakers will present survey and research lectures. Short talks or computing demonstrations from conference participants are invited. A proceedings of selected papers will be published. The city of Geelong is 80 km south-west of Melbourne.

For additional information and registration forms please contact:

Professor P.E. Kloeden
School of Computing and Mathematics
Deakin University, Geelong
Victoria Australia 3217
Email: kloeden@cm.deakin.OZ.AU
Facsimile: +61 52 27 2028

Professor K. J. Palmer
Department of Mathematics and Computer Science
University of Miami, Coral Gables
Florida 33124 USA
Email: kjp@paris.cs.miami.edu

1993 International Symposium on Nonlinear Theory and its Applications

Sheraton Waikiki Hotel, HAWAII
December 5 - 9, 1993

NOLTA '93

HONORARY CHAIRMEN

Kazuo Horiuchi (Waseda Univ.)
Masao Iri (Univ. of Tokyo)

CO-CHAIRMEN

Shun-ichi Amari (Univ. of Tokyo)
Anthony Kuh (Univ. of Hawaii)
Shinsaku Mori (Keio Univ.)

TECHNICAL

PROGRAM CHAIRMAN

Shun-ichi Amari (Univ. of Tokyo)

PUBLICITY

Shinsaku Mori (Keio Univ.)

LOCAL ARRANGEMENT

Anthony Kuh (Dept. of Electrical Engr.,
Univ. of Hawaii, Manoa, Honolulu,
Hawaii, 96822 U.S.A.
Phone: +1-808-956-7527
Telefax: +1-808-956-3427
e-mail: kuh@wiliki.eng.hawaii.edu)

ADVISORY

L. O. Chua (U.C. Berkeley)
R. Eberhart (Research Triangle Inst.)
A. Fettweis (Ruhr Univ.)
L. Fortuna (Univ. of Catania)
W.J. Freeman (U.C. Berkeley)
M. Hasler (Swiss Fed. Inst. of Tech.
Lausanne)
Tatsuo Higuchi (Tohoku Univ.)
Kazumasa Hirai (Kobe Univ.)
Ryogo Hirota (Waseda Univ.)
E.S. Kuh (U.C. Berkeley)
Hiroshi Kawakami (Tokushima Univ.)
Tosiro Koga (Kyushu Univ.)
Tohru Kohda (Kyushu Univ.)
Masami Kuramitsu (Kyoto Univ.)
R.W. Liu (Univ. of Notre Dame)
Tadashi Matsumoto (Fukui Univ.)
A.I. Mees (Univ. of Western Australia)
Michitada Morisue (Saitama Univ.)
Tomomasa Nagashima (Muroran Inst. Tech.)
Tetsuo Nishi (Kyushu Univ.)
J.A. Nossek (Technical University Munich)
Kohshi Okumura (Kyoto Univ.)
T. Roska (Hungarian Academy of Sciences)
Junkichi Satsuma (Univ. of Tokyo)
I.W. Sandberg (Univ. of Texas at Austin)
Chikara Sato (Keio Univ.)
Yasuji Sawada (Tohoku Univ.)
V.V. Shakhgildian (Russian Engr. Academy)
Yoshisuke Ueda (Kyoto Univ.)
Akio Ushida (Tokushima Univ.)
J. Vandewalle (Catholic Univ. of Leuven,
Heverlee)
P. Werbos (National Science Foundation)
A.N. Willson, Jr (U.C.L.A.)
Shuji Yoshizawa (Univ. of Tokyo)
A.H. Zemanian (State Univ. of NY
at Stony Brook)

Call for Papers

The 1993 International Symposium on Nonlinear Theory and its Applications (NOLTA '93) will be held at the Sheraton Waikiki Hotel, Hawaii, on Dec. 5 - 9, 1993. The conference is open to all the world. Papers describing original work in all aspects of Nonlinear Theory and its Applications are invited. Possible topics include, but are not limited to the following:

*Circuits and Systems

- *Dynamics
- *Bifurcation
- *Oscillations
- *Numerical Methods
- *Self-Validating Numerics
- *Chemistry and Physics
- *Acoustics
- *Circuit Simulation
- *Digital/analog VLSI circuits
- *Power Systems

Nonlinear aspects of:

- *Neural Networks
- *Cellular Neural Networks
- *Biocybernetics
- *Reactive Phenomena
- *Pattern Generation
- *Time Series Analysis
- *Mechanics
- *Control
- *Communication
- *Image Processing
- *Other Related Areas
- *Chaos
- *Fractals
- *Soliton
- *Fuzzy
- *Information Dynamics
- *Chua's Circuits
- *Fluid Mechanics
- *Optics
- *Economics
- *Power Electronics

Organizers:

Research Society of Nonlinear Theory and its Applications, IEICE
Dept. of Elect. Engr., Univ. of Hawaii

In cooperation with:

IEEE Hawaii Section
IEEE Circuits and Systems Society
IEEE Neural Networks Council
International Neural Network Society
IEEE CAS Technical Committee on Nonlinear Circuits and Systems
Technical Group of Nonlinear Problems, IEICE
Technical Group of Circuits and Systems, IEICE

Authors are invited to submit three copies of a summary of 2 or 3 pages to:

Technical Program Chairman
Prof. Shun-ichi Amari
Faculty of Engr.,
University of Tokyo, Bunkyo-ku, Tokyo, 113 Japan
Telefax: +81-3-5689-5752
e-mail: amari@sat.t.u-tokyo.ac.jp

The summary should include the author's name(s), affiliation(s) and complete return address(es). The authors should also indicate one or more of the above categories that best describe the topic of the paper.

Deadline for submission of summaries: August 15, 1993
Notification of acceptance: Before September 15, 1993
Deadline for camera-ready manuscripts: November 1, 1993

SECRETARIATS

Shin'ichi Oishi (Waseda Univ.)
Mamoru Tanaka (Sophia Univ.)

International Conference on
**"Bifurcations in
differentiable dynamics"**

June 09-13, 1992

**LIMBURGS
UNIVERSITAIR
CENTRUM**

Proposed Titles of talks :

- | | |
|-------------------|---|
| D. Armbruster | Topological constraints for explicit symmetry breaking |
| J. Artes Ferragud | Saddle connections for quadratic gradient vector fields |
| P. Ashwin | Symmetry in identical oscillator networks |
| C. Baesens | Dynamic bifurcations in slow-fast analytic mappings |
| T. Bridges | Spatial Ham. structure and spatially quasi-per. travelling waves |
| H. Broer | On the B.T.-bifurcation for diffeomorphisms |
| P. Brunovsky | Normal forms for singularly perturbed equations |
| D. Chillingworth | Geometry of an impact oscillator |
| P. Chossat | Bifurcation from symmetric homocl. cycles |
| C. Christopher | Limit cycles in polynomial systems |
| G. Dangelmayr | Hopf bif. with $D_m \times D_n$ -symmetry and interacting clusters of oscillators |
| F. Davidson | Promising directions of bifur. in aR-D system |
| W. de Melo | Bifurcations of flows on surfaces |
| M. Dellnitz | Symmetry creation in PDE's |
| B. Deng | Homoclinic twist and chaos |
| J.-M. Gambaudo | Cascade of periodic orbits for surface diffeomorphisms |
| A. Gasull | Euler-Jacobi formula for double points and applications to differential equations |
| M. Golubitsky | Symmetric chaos |
| A.J. Homburg | Bifurcations of saddle-saddle type hom. orbits in v. f. |
| M. Kern | Travelling waves in a model of the BZR |
| H. Kielhöfer | Separation of global sol. branches of elliptic systems via nodal prop. |
| J. Knobloch | Reduction of bifurcation problems with symmetries |
| H. Kokubu | A degenerate singularity generating geometric Lorenz attractors |
| B. Krauskopf | Convergence of Julia sets in the approx. of λe^z by $\lambda(1 + z/d)^d$ |

M. Krupa	Asympt. stability of robust heteroclinic cycles in systems with symmetry
R. Lauterbach	Symmetry breaking for semi linear elliptic equations
Li Chengzi	A 3-parameter unfolding of an integr. quadr. syst. with 2 centers
J. Llibre	Global structural stability of planar Hamiltonian vector fields
H. Oka	Singular perturbations of autonomous ODE and heteroclinic bifurcations
H. Osinga	Intermittency during a Hopf bifurcation
M.-C. Pérouème	Reversible 1-1 resonant vector fields
E. Ponce	Triple-zero degeneracy : reduced symbolic normal form calculation and application to an electronic oscillator
R. Roussarie	Quasi-regularity property for hyperbolic graphics
C. Rousseau	Hilbert's 16th problem for quadratic vector fields
J. Sanders	Nilpotent normal form with constant perturbation
B. Sandstede	The non-principal homoclinic bifurcation
S. Schecter	Rate of convergence of numerical approximation to hom. and heter. bif. points
J. Scheurle	Discretization of autonomous systems and rapid forcing
D. Schlomiuk	Integrable and non int. systems with invariant algebraic curves
C. Simo	Stability regions near ell. fix points in 4-dim. sympl. maps
J. Sotomayor	Bifurcations of umbilic points
F. Takens	Dynamical systems with $SO(2)$ symmetry and mixed spectra
M.A. Teixeira	Bifurcations of sliding vector fields
S. van Gils	Travelling wave solutions in perturbed KdV equations
Ye Yanquian	Bifurcation diagrams of quadr. diff. systems with one focus and one saddle
Yingfei Yi	Hopf bifurcations from higher dimensional tori
Zhang Zhifen	Number of limit cycles of quadratic Ham. syst. after pert.
H. Zoladek	Solution of the center problem

(Preliminary Announcement)
The Department of Mathematics at
the
University of Missouri-Columbia
announces
a
Conference
On the Interaction Between
Functional Analysis,
Harmonic Analysis, and
Probability.

May 30- June 3, 1994

Supported by The University of Missouri
Further funding will be thought from NSF

The following people have tentatively agreed to be speak.
We are still in the process of contacting additional main
speakers. An updated list will be sent later.

Earl Berkson (University of Illinois)
Jean Bourgain (I H E S, France)
Don Burkholder (University of Illinois)
Robert Fefferman (University of Chicago)
William B. Johnson (Texas A&M)
Peter Jones (Yale University)
Gilles Pisier (University of Paris/Texas A&M)
Richard Rochberg (Washington University)
Michel Talagrand (University of Paris/Ohio-State University)
Lior Tzafriri (Hebrew University of Jerusalem)
Guido Weiss (Washington University)

For Additional Information send an e-mail message to:

conf@esaab.cs.missouri.edu
