

# Programme of the Symposium

## Convex Analysis and Chaos

The third symposium on Nonlinear Analysis and Applications

JOSAI UNIVERSITY

Sakado, SAITAMA, JAPAN

Satellite of NACA98

International Conference on

Nonlinear Analysis and Convex Analysis

<http://math.sc.niigata-u.ac.jp/naca98/>

<http://www.sci.hirosaki-u.ac.jp/~tamata/naca98/>

<http://math.josai.ac.jp/~kiyoko/prog98.html>

### July 23, Thursday

- 13:00 – 13:10 opening  
*Chair* **Fukiko Takeo** (Ochanomizu Univ.),
- 13:10 – 13:30 **Kiyoko Nishizawa** (Josai Univ.),  
**Masayo Fujimura** (National Defence Academy)  
Chaotic bifurcation of one-parameter family
- 13:40 – 14:10 **Kiyoko Furuya** (Ochanomizu Univ.)  
A note on Feynman path integrals for Schrödinger equations
- 14:10 – 14:40 **Norimichi Hirano** (Yokohama National Univ.)  
Periodic solutions for nonlinear second order  
differential equations with a singularity  
*Chair* **Wataru Takahashi** (Tokyo Institute of Technology)
- 15:10 – 15:40 **Noriko Kiyomatsu** (Ehime Univ.)  
A robust control of pneumatic servo systems
- 15:40 – 16:10 **Takeshi Yoshimoto** (Toyo Univ.)  
Uniform and strong ergodic theorems in Banach spaces
- 16:20 – 16:50 **Hisako Watanabe** (Ochanomizu Univ.)  
Besov spaces on fractal sets

## July 24, Friday

- Chair* **Norimichi Hirano** (Yokohama National Univ.)  
10:00–10:30 **Wataru Takahashi** (Tokyo Institute of Technology )  
Nonconvex minimization theorems and metric completeness  
10:40–11:40 **Anthony Lau** (Univ. Alberta, Canada )  
Ergodic sequences in the semigroup of positive definite functions  
11:50–12:20 **Mino Yamada, Mie Matsuto** (Ochanomizu Univ.)  
Some examples of hypercyclic and chaotic semigroups  
12:30 – 13:30 lunch break  
*Chair* **Anthony T. Lau** (Univ. Alberta, Canada )  
13:40–14:40 **Charles Castaing** (Univ. Montpellier 2, France )  
On the Pettis norm convergence under denting and  
extreme point condition.  
14:45–15:45 **Sehie Park** (Seoul National Univ., Korea )  
A unified fixed point theory of multimaps on topological vector space  
16:00 – 16:45 **Shigeo Akashi** ( Niigata Univ.)  
The homeomorphism problem of upper-semi-continuous,  
closed-set-valued mappings  
17:00 – 19:00 banquet

## July 25, Saturday

- Chair* **Shigeo Akashi** ( Niigata Univ.)  
10:00 – 10:50 **George Xian-Zhi Yuan**( Univ. Queensland, Australia)  
The homotopic invariance for fixed points of  
set-valued nonexpansive mappings  
10:50 – 11:20 **Sachiko Atsushiba** (Tokyo Institute of Technology)  
Strong convergence theorems for nonexpansive mappings  
11:30 – 12:20 **Laszlo Lajos Stacho**(Attila Jozsef Univ. Szeged, Hungary)  
The Level Set Method in Minimax Theory  
12:20 – 12:30 closing

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