

# 非線形解析学と凸解析学の研究

## 研究集会

京都大学数理解析研究所の共同研究事業の一つとして、下記のように研究集会を催しますので、ご案内申し上げます。

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### 記

日時: 2005年8月23日(火) 10:00~8月25日(木) 12:10

場所: 京都大学理学部6号館2階201号室

京都市左京区北白河追分町

市バス 京大農学部前 下車

### プログラム

8月23日(火)

- 10:00~10:30 Anthony To-Ming Lau (University of Alberta, Canada)  
Weak fixed point property and the Fourier algebra
- 10:30~11:00 Tetsuzo Tanino (Osaka University, Japan)  
On dividends for cooperative games
- 11:10~11:40 Do Sang Kim\* and Hun Suk Kang (Pukyong National University, Korea)  
Nondifferentiable multiobjective fractional programming problems under generalized convexity
- 11:40~12:10 Takeshi Yoshimoto (Toyo University, Japan)  
Remarks on pointwise nonlinear ergodic theorems in  $L_p$
- 13:30~14:00 Hidefumi Kawasaki (Kyushu University, Japan)  
Duality theorem for a three-phase partition problem
- 14:00~14:30 Jong Kyu Kim (Kyungnam University, Korea)  
On new systems for nonlinear variational inequalities in Hilbert spaces
- 14:30~15:00 Kunimichi Takesue (Kyushu Kyoritsu University, Japan)  
About maximal monotone operators in Banach space
- 15:10~15:40 Sachiko Atsushiba (Shibaura Institute of Technology, Japan)  
Weak and strong convergence theorems for nonexpansive mappings by an implicit iterative sequence
- 15:40~16:10 Koji Aoyama (Chiba University, Japan)  
Weak convergence of iterative sequences for inverse-strongly-accretive operators and nonexpansive mappings in Banach spaces
- 16:10~16:40 Mau-Hsiang Shih (National Taiwan Normal University, Taiwan)  
Nonlinear dynamics of complex networks

8月24日(水)

- 9:30 ~ 10:00 Shigeo Akashi (Tokyo University of Science, Japan)  
A nonlinear theoretic generalization of fractal geometric data compression
- 10:00 ~ 10:30 Yeol-Je Cho (Gyeongsang National University, Korea)  
Resolvent operators and variational inclusions
- 10:30 ~ 11:00 Yasunori Kimura (Tokyo Institute of Technology, Japan)  
Strong convergence for resolvents of maximal monotone operators and its characterization
- 11:10 ~ 11:40 Jen-Chih Yao (National Sun Yat-Sen University, Taiwan)  
Hybrid steepest descent methods for zeros of nonlinear operators with applications to variational inequalities
- 11:40 ~ 12:10 Daishi Kuroiwa\* and Tetsuya Nuriya (Shimane Univeristy, Japan)  
A generalized embedding space and proper efficiency in set optimization
- 13:30 ~ 14:00 Tamaki Tanaka\*, Shogo Nishizawa, and Akira Shimizu (Niigata University, Japan)  
Characterization for efficient saddle points of set-valued maps
- 14:00 ~ 14:30 Shyh-Nan Lee (Chung Yuan Christian University, Taiwan)  
Combinatorial foundation of balanced games without sidepayments
- 14:30 ~ 15:00 Mikio Kato\* (Kyushu Institute of Technology, Japan),  
Yasuji Takahashi (Okayama Prefectural University, Japan), and  
Yasutaka Yamada (Kitakyushu College of Technology, Japan)  
Hanner type inequalities and duality
- 15:10 ~ 15:40 Misako Kikkawa\* and Wataru Takahashi (Tokyo Institute of Technology, Japan)  
Viscosity iterative methods for a countable family of nonexpansive mappings
- 15:40 ~ 16:10 Yousuke Araya\* and Tamaki Tanaka (Niigata University, Japan)  
On Caristi's fixed point theorems for vector-valued functions
- 16:10 ~ 16:40 Sehie Park (National Academy of Sciences, and Seoul National University, Korea)  
Fixed points of approximable or Kakutani maps in generalized convex spaces

8月25日(木)

- 9:30 ~ 10:00 西白保敏彦 (琉球大学・理学部)  
バナッハ空間における積分作用素の同程度一様総和法の収束精度について
- 10:00 ~ 10:30 北條美穂\*, 木村寛, 矢戸弓雄, 漆川芳國 (秋田県立大学 経営システム工学科)  
微生物分解の数値モデルについて
- 10:30 ~ 11:00 茨木貴徳\* (一橋大学 経済研究所),  
高橋渉 (東京工業大学 大学院情報理工学研究所)  
バナッハ空間における generalized nonexpansive 写像に関する収束定理
- 11:10 ~ 11:40 鈴木智成 (九州工業大学 工学部)  
 $n$  パラメータの非拡大半群の不動点について
- 11:40 ~ 12:10 陳明浩 (ハルビン工業大学),  
齋藤誠慈\* (大阪大学),  
石井博昭 (大阪大学)  
バナッハ空間におけるファジィ微分方程式の初期値連続依存性について