

Sessions

The six-day technical program consists of keynotes, invited talks, and parallel sessions.

Keynotes are held at Hall P and Room Q (connected use of Rooms A and B). Invited talks and other contributed talks are held at Rooms A, B, C, D, and E.

Each session has a four-letter code like (**MO1P**). The first two letters stand for the day:

MO: August 1, Monday,
TU: August 2, Tuesday,
WE: August 3, Wednesday,
TH: August 4, Thursday,
FR: August 5, Friday,
SA: August 6, Saturday.

The third digit stands for the period of the session. The last letter corresponds to the hall/rooms to be held.

The symbol * indicates the presenter of the joint work. The number after author's name is the page of the abstract.

Keynote lectures are assigned 45min for each talk and invited talks are assigned 30min. Each parallel session has 90–140min for about 3–5 speakers. In general, each talk has 28–30min including questions and answers. For details, please ask the chairperson or the organizer of each special session.

August 1st (Mon), Afternoon

TIME	Hall P
14:00	Opening Ceremony
14:15	
14:15	Keynote (MO1P)
16:30	

[MO1P] Keynote (chair: **R. T. Rockafellar**).

- (1) **Wataru Takahashi**
New nonlinear operators and split common fixed point problems in Banach spaces and applications
- (2) **Sehie Park**
On the minimax principle of Brézis-Nirenberg-Stampacchia
- (3) **Hang-Chin Lai**
Fourier transforms of class L_p and the multipliers of A^p , $1 \leq p \leq 2$

August 2nd (Tue), Morning

TIME	Hall P
9:00	Keynote
10:30	(TU1P)

TIME	Room C	Room D
10:50	Invited	Invited
11:50	(TU2C)	(TU2D)

[TU1P] Keynote (chair: Tetsuzo Tanino).

- (1) **R. T. Rockafellar**
Problem decomposition in convex and nonconvex optimization
- (2) **Dinh The Luc**
On variational relation problems

[TU2C] Invited Talks (chair: Ryszard Pluciennik).

- (1) **Zhouwang Yang* and Jiaojiao Yang**
Sparse optimization via partial group regularization
- (2) **Yasunori Kimura**
Resolvents of convex functions and their properties in geodesic spaces

[TU2D] Invited Talks (chair: Tamaki Tanaka).

- (1) **Giovanni P. Crespi, Andreas H. Hamel*, Matteo Rocca, and Carola Schrage**
An abstract convexity approach to set relations and set optimization
- (2) **Daishi Kuroiwa**
Unified approach in set optimization with parameterized embedding functions

August 2nd (Tue), Afternoon

TIME	Room A	Room B	Room C	Room D	Room E
13:10	Parallel	Parallel	Organized	Organized	Parallel
14:40	(TU3A)	(TU3B)	(TU3C)	(TU3D)	(TU3E)
15:00	Parallel	Parallel	Organized	Organized	Parallel
16:30	(TU4A)	(TU4B)	(TU4C)	(TU4D)	(TU4E)

[TU3A] Parallel Session (chair: Takanori Ibaraki).

- (1) **Koji Aoyama**
Uniformly nonexpansive sequences
- (2) **Sachiko Atsushiba**
Attractive points, acute point and weak convergence theorems for nonlinear mappings
- (3) **Pongrus Phuangphoo* and Poom Kumam**
Modifying two block hybrid projection method for solving the solution of equilibrium problems and fixed point problems for finite families of quasi- ϕ -asymptotically nonexpansive mappings in the intermediate sense

[TU3B] Parallel Session (chair: Jamnian Nantadilok).

- (1) **Narongsuk Boonsri* and Satit Saejung**
On two recent results for Caristi-type cyclic mappings
- (2) **Porawee Chotpitayasunon**
The effect of discount for EOQ model with imperfect quality
- (3) **Nantaporn Chuensupantharat* and Poom Kumam**
Fixed point theorem for theoretical relation under implicit contractive condition on metric spaces

[TU3C] Organized Session: Numerical Computation (1)

(organizers: Shin'ich Oishi and Kouta Sekine; chair: Kouta Sekine).

- (1) **Akitoshi Takayasu*, Makoto Mizuguchi, Takayuki Kubo, and Shin'ichi Oishi**
Concatenation scheme for verified inclusion of solutions to semilinear heat equations
- (2) **Kazuaki Tanaka* and Shin'ichi Oishi**
On verified numerical computation for elliptic Dirichlet boundary value problems using sub- and super-solution method
- (3) **Xuefeng Liu*, Yusheng Ji, Zhi Liu, and Tamaki Tanaka**
Optimization of resource management in a practical cloud-based online computing system

[TU3D] Organized Session: Set Optimization and Applications (1)

(organizer/chair: Andreas H. Hamel).

- (1) **Carola Schrage*, Giovanni P. Crespi, Andreas H. Hamel, and Matteo Rocca**
Approximate solutions in set optimization
- (2) **Andreas Löhne* and Andrea Wagner**
DC programming with one convex function being polyhedral
- (3) **Benjamin Weißing**
Algorithms for solving the polyhedral projection problem

[TU3E] Parallel Session (chair: Shin-ya Matsushita).

- (1) **Yukio Takeuchi**
The fixed point property and boundedness of sets
- (2) **Takashi Honda**
Some decomposition theorems of semigroups of linear contractive operators on Banach spaces
- (3) **I-Hsuan Hong* and Pin-Chun Chen**
Variational inequality application: Analysis of government subsidies in reverse supply chains

[TU4A] **Parallel Session (chair: Koji Aoyama).**

- (1) **Takanori Ibaraki**
Iterative schemes with errors for fixed point problems in Banach spaces
- (2) **Sompob Saelee*, Pongrus Phuangphoo, and Poom Kumam**
A hybrid scheme for a system of generalized mixed equilibrium problem and total quasi- ϕ -asymptotically nonexpansive multi-valued mappings in Banach spaces
- (3) **Shin-ya Matsushita* and Li Xu**
On the existence of solutions to the sum problem

[TU4B] **Parallel Session (chair: Suthep Suantai).**

- (1) **Wudthichai Onsod* and Poom Kumam**
Common fixed point theorems of f - ψ - ϕ -weak contraction mappings in cone metric spaces
- (2) **Phikul Sridarat* and Suthep Suantai**
Weak and strong convergence theorems of the SP-iteration for G-nonexpansive mappings with a directed graph
- (3) **Phumin Sumalai* and Poom Kumam**
Coincidence points theorems for multi-valued F-weak contractions on complete metric space endowed with a graph

[TU4C] **Organized Session: Numerical Computation (2)**

(organizers: Shin'ich Oishi and Kouta Sekine; chair: Akitoshi Takayasu).

- (1) **Kouta Sekine*, Kazuaki Tanaka, and Shin'ich Oishi**
Estimation for optimal constant satisfying an inequality for linear operator using minimal eigenvalue
- (2) **Shuyu Sun**
Computational modeling of partially miscible multi-component two-phase systems in multiple dimensions
- (3) **Makoto Mizuguchi*, Kouta Sekine, Akitoshi Takayasu, Takayuki Kubo, and Shin'ichi Oishi**
Verification algorithm for enclosing a mild solution of semilinear heat equations

[TU4D] **Organized Session: Set Optimization and Applications (2)**

(organizer: Andreas H. Hamel; chair: Daishi Kuroiwa).

- (1) **Satoshi Suzuki* and Daishi Kuroiwa**
Nonlinear global error bounds for quasiconvex inequality systems
- (2) **Kazuki Seto* and Daishi Kuroiwa**
An observation of generalized convexity for set-valued maps in a unified approach

[TU4E] **Parallel Session (chair: Nobusumi Sagara).**

- (1) **Yoshikazu Kobayashi* and Naoki Tanaka**
Evolution problems in metric spaces and dissipativity conditions
- (2) **Kōdai Fujimoto**
Existence and nonexistence of limit cycles for Liénard-type equations with φ -Laplacian
- (3) **Kamsing Nonlaopon*, Somsak Orankitjaroen, and Amnuay Kananthai**
The generalized solutions of a certain n order differential equations with polynomial coefficients

August 3rd (Wed), Morning

TIME	Room Q
9:00	Keynote
10:30	(WE1Q)

TIME	Room C	Room D
10:50	Invited	Invited
11:50	(WE2C)	(WE2D)

[WE1Q] Keynote (chair: Anthony To-Ming Lau).

- (1) **Kan Buranakorn, Somyot Plubtieng***, and **Tadchai Yuying**
Splitting algorithms for solving two-level equilibrium problems and systems of coupled monotone inclusions
- (2) **Zenn-Tsun Yu, Chih Sheng Chuang, and Lai-Jiu Lin***
An algorithm and convergence theorem for variational inequality in Hilbert spaces

[WE2C] Invited Talks (chair: Mikio Kato).

- (1) **Shoichi Kamada and Koichiro Naito***
Shortest vector problems of random p -adic lattices and p -adic knapsack type cryptosystems
- (2) **Ryszard Pluciennik**
Local Kadec-Klee properties and their application to the best dominated approximation problems in symmetric function spaces

[WE2D] Invited Talks (chair: Dinh The Luc).

- (1) **Van Bong Nguyen and Ruey-Lin Sheu***
On unboundedness of quadratic problems with convex quadratic constraints
- (2) **Sangho Kum***, **Hosoo Lee**, and **Yongdo Lim**
The resolvent average on symmetric cones of JB-algebras

August 3rd (Wed), Afternoon

TIME	Room A	Room B	Room C	Room D	Room E
13:10	Parallel	Parallel	Parallel	Organized	Organized
15:30	(WE3A)	(WE3B)	(WE3C)	(WE3D)	(WE3E)

[WE3A] Parallel Session (chair: Satit Saejung).

- (1) **Jamnian Nantadilok**
Best proximity point results in S -metric spaces
- (2) **Chayut Kongban* and Poom Kumam**
Best proximity points of random N -order and random quadruple best proximity points with cyclic contraction
- (3) **Pinya Ardsalee* and Satit Saejung**
Some best proximity point theorems via fixed point theorems for multivalued mappings
- (4) **Konrawut Khammahawong* and Poom Kumam**
On best proximity points for multivalued cyclic F -contraction mappings

[WE3B] Parallel Session (chair: Sangho Kum).

- (1) **Panatda Boonman*, Rabian Wangkeeree, and Lam Quoc Anh**
Painlevé-Kuratowski convergence of the solution sets for variational inclusion problems
- (2) **Pakeeta Sukprasert* and Poom Kumam**
Cyclic admissible contraction on B -metric spaces for common fixed points results
- (3) **Wutiphol Sintunavarat**
Various kinds of simulation functions with applications to fixed point results in b -metric spaces
- (4) **Chirasak Mongkolkeha**
Existence theorems and approximate solution method for generalized contraction mapping in generalized pseudodistance functions
- (5) **Plern Saipara* and Poom Kumam**
Random S-iterative sequence with errors for approximating random fixed points

[WE3C] Parallel Session (chair: Ruey-Lin Sheu).

- (1) **Mitsuhiro Hoshino**
On a closed class of states and an estimation of its formative process in basic SOM
- (2) **Nopparat Pochai* and Sarawut Saenkarun**
A numerical computation of an exothermic reactions model with variable heat source in a porous medium
- (3) **Seiichi Iwamoto and Yutaka Kimura***
Semi-Fibonacci programming — Golden identical duality —
- (4) **Thanatporn Bantaojai*, Rabian Wangkeeree, Lam Quoc Anh, Tran Quoc Duy, and Pham Thi Vui**
Stability of solutions for lexicographic vector equilibrium problems

**[WE3D] Organized Session: Optimization and Analysis Including
Fixed Point Theory (organizer/chair: Hang-Chin Lai).**

- (1) **Yen-Cherng Lin**
Some results for the hierarchical set equilibrium problems
- (2) **Chih-Sheng Chuang**
Hybrid inertial proximal algorithm for the split variational inclusion problem in Hilbert spaces with applications
- (3) **Yi-Chou Chen**
Some results for best proximity point on metric spaces
- (4) **Wei-Shih Du**
On generalized Caristi's fixed point theorem and its equivalence
- (5) **Tone-Yau Huang**
Second order duality for a non-differentiable minimax programming in complex spaces

[WE3E] Organized Session: Graph Theory (organizer/chair: Seiya Negami).

- (1) **Seiya Negami**
Faithful embeddings of planar graphs on closed surfaces
- (2) **Yumiko Ohno**
Triad colorings of triangulations on closed surfaces
- (3) **Atsuhiko Nakamoto**
Y-Rotations in a disk quadrangulation and a rhombus tiling of a polygon
- (4) **Kengo Enami**
The maximum values of beans functions of graphs over intervals
- (5) **Yusuke Suzuki**
Optimal 1-embedded graphs which triangulate other surfaces

August 4th (Thu), Morning

TIME	Room Q
9:00	Keynote
10:30	(TH1Q)

TIME	Room C	Room D
10:50	Invited	Invited
11:50	(TH2C)	(TH2D)

[TH1Q] Keynote (chair: Do Sang Kim).

- (1) **Kichi-Suke Saito***, **Naoto Komuro**, and **Ryotaro Tanaka**
 $\pi/2$ -rotation invariant norms on \mathbb{R}^2 and the James constant
- (2) **Gue Myung Lee**
On solution sets for convex optimization problems

[TH2C] Invited Talks (chair: Lai-Jiu Lin).

- (1) **Mikio Kato*** and **Takayuki Tamura**
On A -direct sums of Banach spaces
- (2) **Satit Saejung**
On split common fixed point problems and some related problems

[TH2D] Invited Talks (chair: Mau-Hsiang Shih).

- (1) **Jein-Shan Chen**
Neural networks based on NCP-functions
- (2) **Yongdo Lim**
Wasserstein barycenters of Gaussian measures

August 4th (Thu), Afternoon

TIME	Room A	Room B	Room C	Room D	Room E
13:10	Parallel	Organized	Organized	Parallel	Parallel
14:40	(TH3A)	(TH3B)	(TH3C)	(TH3D)	(TH3E)
15:00	Parallel	Parallel	Parallel	Parallel	Parallel
16:30	(TH4A)	(TH4B)	(TH4C)	(TH4D)	(TH4E)

[TH3A] Parallel Session (chair: Toshiharu Kawasaki).

- (1) **Kriengsak Wattanawitoon*** and **Uamporn Witthayarat**
On solving split equilibrium problems and fixed point problem with applications
- (2) **Kiattisak Rattanaseeha***, **Rabian Wangkeeree**, and **Rattanaorn Wangkeeree**
Linesearch algorithms for split generalized equilibrium problems and two families of strict pseudo-contraction mappings
- (3) **Uamporn Witthayarat***, **Prasit Cholamjiak**, and **Yeol Je Cho**
Convergence theorem for solving proximal split feasibility problem with applications

[TH3B] Organized Session: Geometry of Banach Spaces

(organizer/chair: Kichi-Suke Saito).

- (1) **Yukino Tomizawa***, **Ken-Ichi Mitani**, **Kichi-Suke Saito**, and **Ryotaro Tanaka**
Geometric constants of $\pi/2$ -rotation invariant norms
- (2) **Ryotaro Tanaka***, **Naoto Komuro**, and **Kichi-Suke Saito**
A characterization of two-dimensional normed spaces with James constant $\sqrt{2}$
- (3) **Ken-Ichi Mitani***, **Yasuji Takahashi**, and **Kichi-Suke Saito**
On the von Neumann-Jordan constant of ℓ_p - ℓ_q spaces

[TH3C] Organized Session: Dynamical Systems and Optimization

(organizer/chair: Jein-Shan Chen).

- (1) **Jui-Pin Tseng**
Synchronization of nonlinearly coupled systems with delays
- (2) **Junyuan Yang** and **Chun-Hsien Li***
Dynamics of a competing two-strain SIS epidemic model on complex networks with a saturating incidence rate

[TH3D] Parallel Session (chair: Carola Schrage).

- (1) **Masamichi Kon**
Characterization of upper semicontinuity and robustness
- (2) **Ariana Pitea**
A parametric approach of some multitime multiobjective variational problems
- (3) **Hideo Kanemitsu**
On three kinds of multivariate lower unimodal functions

[TH3E] Parallel Session (chair: Kiyoko Furuya).

(1) **Auttawut Rangklang* and Kamsing Nonlaopon**

A generalization of the delta convergent sequences that vanish on the support of the limit Dirac delta function

(2) **Young-Ho Kim**

Recent results in approximate solution for a special class of stochastic differential delay equation

(3) **Thongchai Botmart**

Guaranteed cost control for exponential synchronization of delayed complex dynamical network with multi-connection delays via feedback control

[TH4A] Parallel Session (chair: Shigeo Akashi).

- (1) **Toshiharu Kawasaki**
New sufficient conditions for contractively widely more generalized hybrid mappings to have a fixed point
- (2) **Chanitnan Jaipranop* and Satit Saejung**
Some improvements on Chuang-Takahashi's weak convergence theorems for a family of demicontractive mappings
- (3) **Shoichi Kamada* and Koichiro Naito**
Simultaneous approximation problems and knapsack cryptosystems with commitment schemes in p -adic numberlands

[TH4B] Parallel Session (chair: Hiroshi Miyashita).

- (1) **Kenjiro Yanagi**
Some trace inequalities for left-right multiplication operators related to fidelity and trace distance
- (2) **Chunya Tisklang* and Sayan Panma**
On transitive Cayley graphs of finite transformation semigroups with restricted range
- (3) **Hiroyasu Mizuguchi**
Measurement of the difference between two orthogonality types in Banach spaces

[TH4C] Parallel Session (chair: Narin Petrot).

- (1) **Yu Zhao* and Yukihiro Maruyama**
The measurement and decomposition of profit ratio Malmquist productivity index
- (2) **Jimbo Henri Claver* and Ngongo Isidore Seraphin**
Portfolio optimization with reinsurance-investment strategies
- (3) **Darunee Hunwisai* and Poom Kumam**
Some fuzzy fixed point theorems for multivalued F -contraction mappings in fuzzy metric spaces

[TH4D] Parallel Session (chair: Masamichi Kon).

- (1) **Puchit Sariddichainunta* and Masahiro Inuiguchi**
Monotonic optimization for bilevel linear optimization problem with the follower's ambiguous objective function
- (2) **M. Ali Khan and Nobusumi Sagara***
Relaxed large economies with infinite-dimensional commodity spaces: The existence of Walrasian equilibria
- (3) **Yoshifumi Kusunoki* and Tetsuzo Tanino**
Characterization of irreducible forms in minimum cost arborescence problems

[TH4E] Parallel Session (chair: Young-Ho Kim).

- (1) **Kiyoko Furuya**
On "well posed function spaces" for L^2 -illposed hyperbolic equations
- (2) **Watcharin Chatbupapan and Kanit Mukdasai***
New delay-range-dependent exponential stability criteria under mixed model transformation for certain neutral differential equation with interval time-varying delays

August 5th (Fri), Morning

TIME	Room Q
9:00	Keynote
10:30	(FR1Q)

TIME	Room B	Room C	Room D
10:50	Invited	Invited	Invited
11:50	(FR2B)	(FR2C)	(FR2D)

[FR1Q] Keynote (chair: Gue Myung Lee).

- (1) **Do Sang Kim**
Nonsmooth minimax programming problems with applications
- (2) **Suthep Suantai**
Fixed point theorems of some generalized nonexpansive mappings with graphs and rate of convergence of some iterative methods

[FR2B] Invited Talks (chair: Yongdo Lim).

- (1) **Bui Van Dinh*, Do Sang Kim, and Liguo Jiao**
Convergence analysis of algorithms for DC programming
- (2) **Tamaki Tanaka**
Study on set-valued inequality based on set-valued analysis and convex analysis

[FR2C] Invited Talks (chair: Koichiro Naito).

- (1) **Shuechin Huang**
Approximations of fixed points in Hadamard manifolds
- (2) **Shigeo Akashi**
Numerical classification of continuous expansive mappings on compact and totally-disconnected metric spaces

[FR2D] Invited Talks (chair: Somyot Plubtieng).

- (1) **Nimit Nimana, Porntip Promsinchai, and Narin Petrot***
Methods for convex optimization without convex representation
- (2) **Rabian Wangkeeree*, Lam Quoc Anh, and Jutamas Kerdkaew**
Hölder continuity of solution maps to parametric primal and dual weak generalized Ky Fan inequalities

August 5th (Fri), Afternoon

TIME	Room A	Room B	Room C	Room D
13:10	Parallel	Parallel	Parallel	Parallel
14:40	(FR3A)	(FR3B)	(FR3C)	(FR3D)
15:00	Parallel	Parallel	Parallel	Organized
16:30	(FR4A)	(FR4B)	(FR4C)	(FR4D)

[FR3A] Parallel Session (chair: Shuechin Huang).

- (1) **Fumiaki Kohsaka**
Spherically nonspreading mappings in geodesic metric spaces with curvature bounded above
- (2) **Pongsakorn Yotkaew* and Satit Saejung**
Convergence theorems for multivalued mappings in some geodesic spaces
- (3) **Yusuke Kishi* and Yasunori Kimura**
Equilibrium problems in Hadamard spaces

[FR3B] Parallel Session (chair: Nirattaya Khamsemanan).

- (1) **Masashi Toyoda and Toshikazu Watanabe***
Fixed point theorems in metric spaces with a partial order
- (2) **Khanitin Muangchoo-in* and Poom Kumam**
Fixed point theorems and iterative approximations for monotone nonspreading mappings in ordered Banach spaces

[FR3C] Parallel Session (chair: Rabian Wangkeeree).

- (1) **Wisit Srisutham, Sittichai Klawkrathok, and Uthumporn Domthong***
Equations for estimating body weight from anthropometric measurements in Thai adult patients
- (2) **Susumu Shindoh**
Some properties of interference mappings and application to SIR feasibility problems
- (3) **Yosuke Araya**
Existence of set equilibrium problem via Fan-KKM theorem

[FR3D] Parallel Session (chair: Bui Van Dinh).

- (1) **Bui Van Dinh, Do Sang Kim, and Ligu Jiao***
A boosted proximal point algorithm for DC programming
- (2) **Tatiana Shitkovskaya*, Zhe Hong, and Do Sang Kim**
On generalized approximate solutions in multiobjective optimization problems
- (3) **Syuuji Yamada*, Tamaki Tanaka, and Tetsuzo Tanino**
Optimality conditions and a branch-and-bound procedure for a cone-dc vector optimization problem

[FR4A] Parallel Session (chair: Fumiaki Kohsaka).

- (1) **Thanyarat Jitpeera*, Paphawadee Netsuwan, Tamaki Tanaka, and Poom Kumam**
Hierarchical convergence for equilibrium problems and variational inequalities problems
- (2) **Nuttapol Pakkaranang* and Poom Kumam**
Fixed point and convergence theorems for asymptotically k -strict pseudo-contractive mappings in CAT(0) spaces
- (3) **Anantachai Padcharoen* and Poom Kumam**
Strong convergence of Halpern-Mann's iteration for Bregman totally quasi-asymptotically nonexpansive multi-valued mappings in reflexive Banach spaces with application

[FR4B] Parallel Session (chair: Yoshifumi Kusunoki).

- (1) **Kasamsuk Ungchittrakool* and Jiraprapa Munkong**
Generalized (ϕ, ψ) -vector complementarity problem with fuzzy mappings
- (2) **Chatuphol Khaofong* and Poom Kumam**
Common fuzzy fixed point theorem for F_2 -contraction mappings in non-Archimedean fuzzy metric spaces

[FR4C] Parallel Session (chair: Jui-Pin Tseng).

- (1) **Hiroshi Miyashita**
A subgradient method to minimize nonsmooth wirelength with overlap removal in analytical circuit placement
- (2) **Nirattaya Khamsemanan*, Cholwich Nattee, Luckhana Lawtrakul, Pisanu Toochinda, and Supa Hannongbua**
Predicting inhibition constants of antimalarial drug compounds using support vector regression
- (3) **Cholwich Nattee*, Nirattaya Khamsemanan, and Nitchan Jianwattana-paisarn**
Comparison of human identification from free-style walking using support vector machines versus extra trees

[FR4D] Organized Session: Set Optimization and Applications (3)

(organizer: Andreas H. Hamel; chair: Andreas Löhne).

- (1) **Kenji Kimura* and Masakazu Higuchi**
On a vectorizing function for some convex sets and graphical features of vectorized functions
- (2) **Shogo Kobayashi, Yutaka Saito*, and Tamaki Tanaka**
Convexity for compositions of set-valued map and monotone scalarizing function
- (3) **Gue Myung Lee, Jae Hyoung Lee, Yuto Ogata*, Yutaka Saito, and Tamaki Tanaka**
Alternative theorems via set-valued analysis

August 6th (Sat), Morning

TIME	Room Q
9:00	Keynote
12:15	(SA1Q)
12:15	Closing Ceremony
12:30	

[SA1Q] Keynote (chair: Syuuji Yamada, Shigeo Akashi).

- (1) **Tetsuzo Tanino*** and **Yoshifumi Kusunoki**
The linear spaces of transferable utility games with restrictions on coalitions
- (2) **Mau-Hsiang Shih**
Interneural computing
- (3) **Hong-Kun Xu**
Prox-gradient methods for composite optimization
- (4) **Anthony To-Ming Lau**
Finite dimensional invariant subspace properties for semigroups and a class of Banach algebras