

## Contents

Preface .....	i
Contents .....	iii
Sachiko Atsushiba (PDF, HTML) <i>Strong convergence theorems for nonexpansive semigroups by Halpern's type iterations</i> .....	1
Chih-Sheng Chuang and Wataru Takahashi (PDF, HTML) <i>Strong convergence theorems for families of nonlinear mappings with generalized parameters</i> .....	15
S. Dhompongsa and S. Tasena (PDF, HTML) <i>A note on copulas for belief functions</i> .....	33
Kiyoko Furuya (PDF, HTML) <i>A contraction semigroup for formally self-adjoint Schrödinger operator</i> .....	41
Sung-Won Han and Tae-Hwa Kim (PDF, HTML) <i>Asymptotically strict quasi-pseudocontractive families and their convergence problems</i> .....	55
Miwa Hidaka, Sayaka Onishi and Daishi Kuroiwa (PDF, HTML) <i>An observation of a Lagrange-type duality theorem for fractional programming</i> .....	73
Masakazu Higuchi, Kenji Kimura and Tamaki Tanaka (PDF, HTML) <i>Graphical analysis on payoff functions for bicriteria set-valued matrix games</i> .....	81

Shun-Chin Ho and Hang-Chin Lai (PDF, HTML) <i>Minimax fractional programming for Lipschitz functions and mixed-type duality under generalized invexity</i> .....	107
Hitoshi Hohjo (PDF, HTML) <i>A timing game with uncertain value function to the follower</i> .....	119
Mitsuhiko Hoshino (PDF, HTML) <i>On variable learning rate factor and ordering behavior in self-organizing maps</i> .....	131
Hirohito Inoue (PDF, HTML) <i>p-Adic continued fractions and theory of p-adic approximation lattices</i> .....	139
Hirohito Inoue and Koichiro Naito (PDF, HTML) <i>Simultaneous rational approximations of a p-adic number and its powers by p-adic approximation lattices</i> .....	155
Hirohito Inoue, Koichiro Naito and Yuma Yamada (PDF, HTML) <i>Lattice reduction algorithms and their cryptographic applications</i> .	167
M. Inuiguchi, A. Okumura, R. Słowiński and S. Greco (PDF, HTML) <i>Interval ordinal regression for multi-attribute decision aiding</i> .....	177
Masahiro Inuiguchi, Puchit Sariddichainunta and Yosuke Kawase (PDF, HTML) <i>Bilevel linear programming with ambiguous objective function of the follower: Formulation and algorithm</i> .....	207
Seiichi Iwamoto, Yutaka Kimura and Toshiharu Fujita (PDF, HTML) <i>Primal-dual inequalities through conjugate function</i> .....	219
Toshiharu Kawasaki and Wataru Takahashi (PDF, HTML) <i>Fixed point and nonlinear ergodic theorems for widely more generalized hybrid mappings in Hilbert spaces and applications</i> .....	229

Kenji Kimura, Masakazu Higuchi and Tamaki Tanaka (PDF, HTML) <i>On minimax and maximin values in a set-valued multicriteria matrix game</i> .....	241
Yasunori Kimura (PDF, HTML) <i>An iterative scheme generated by convex combination for nonexpansive mappings in a Hadamard space</i> .....	251
Satoshi Kodama and Shigeo Akashi (PDF, HTML) <i>A constructive proof of Vitzuskin's theorem</i> .....	261
Takeyoshi Kogiso (PDF, HTML) <i>Castling transforms of prehomogeneous vector spaces and Markoff numbers</i> .....	271
Fumiaki Kohsaka (PDF, HTML) <i>Weak convergence theorem for a sequence of quasinonexpansive type mappings</i> .....	289
Naoto Komuro, Kichi-Suke Saito and Ken-Ichi Mitani (PDF, HTML) <i>Convex property of James and von Neumann-Jordan constant of absolute norms on <math>\mathbb{R}^2</math></i> .....	301
Masamichi Kon (PDF, HTML) <i>Stability in fuzzy multicriteria location problems</i> .....	309
Rieko Kubota and Yukio Takeuchi (PDF, HTML) <i>Remarks on shrinking projection method and strictly pseudo-contractions</i> .....	325
Hang-Chin Lai (PDF, HTML) <i>Multicriteria minimax theorem problems and ratio expectations of a two-person dynamic game</i> .....	337
Ken-Ichi Mitani and Kichi-Suke Saito (PDF, HTML) <i>Geometric characterizations of Banach spaces using <math>\psi</math>-direct sums</i>	351
Ken-Ichi Mitani, Kichi-Suke Saito and Naoto Komuro (PDF, HTML) <i>Skewness of absolute normalized norms on <math>\mathbb{R}^2</math></i> .....	361

Makoto Namiki (PDF, HTML)	
<i>Computational experiments of the P-matrix problem via hidden matrix classes</i> .....	369
Masahiro Noda, Yoshifumi Kusunoki and Tetsuzo Tanino (PDF, HTML)	
<i>A cost allocation rule for minimum cost arborescence problems</i> ...	385
Sehie Park (PDF, HTML)	
<i>Evolution of the Fan-Browder type alternatives</i> .....	401
Biagio Ricceri (PDF, HTML)	
<i>A property shared by continuous linear functions and holomorphic functions</i> .....	419
R. Tyrrell Rockafellar (PDF, HTML)	
<i>Second-order variational analysis and its role in optimization</i> .....	427
Hiroki Sano and Tomoyoshi Ohwada (PDF, HTML)	
<i>Recent progress in the triangle inequality on Banach spaces</i> .....	439
Satoshi Suzuki, Daishi Kuroiwa and Gue Myung Lee (PDF, HTML)	
<i>Surrogate duality for a certain class of uncertain problems</i> .....	447
Hideyuki Takada (PDF, HTML)	
<i>A certain optimization problem related to nonlinear filtering applied to mathematical finance</i> .....	457
Sin-Ei Takahasi and Yasuo Nakasuji (PDF, HTML)	
<i>Abstract Jensen's inequality and its applications</i> .....	473
Wataru Takahashi (PDF, HTML)	
<i>Fixed point and mean convergence theorems for semigroups of not necessarily continuous mappings</i> .....	483
Ryotaro Tanaka and Kichi-Suke Saito (PDF, HTML)	
<i>Recent progress on Beckner type inequalities</i> .....	505

Masashi Toyoda and Toshikazu Watanabe (PDF, HTML)	
<i>Application of a fixed point theorem in partially ordered sets to boundary value problems for fourth order differential equations</i> .....	513
Seiki Yamamura, Yoshifumi Kusunoki and Tetsuzo Tanino (PDF, HTML)	
<i>Cooperative games with fuzzy permission structures</i> .....	523
Shunsuke Yamamoto and Daishi Kuroiwa (PDF, HTML)	
<i>Observations of constraint qualifications for a class of convex composite functions</i> .....	541
Author Index .....	549