• Variational and topological methods for Neumann problems with p-Laplacian, Jenica C. Cringanu (01-38)
• An nth order singular three-point boundary value problem, Johnny Henderson and P. Singh (39-50)
• Global Hölder regularity for nonhomogeneous elliptic systems with nonlinearity greater than two and with controlled growth, Giovanna Idone (51-63)
• Nontrivial solutions to a nonlinear boundary value problem on a time scale, Johnny Henderson (65-71)
• Eigenvalue comparisons for m-pont boundary value problems, Basant Karna (73-83)
• Second order multivalued boundary value problems, A. Boucherif and B. Chanane (85-91)
• H-monotone operators and systems of variational inclusions, Y. P. Fang and N. J. Huang (93-101)
Concerning the convergence and application of Newton’s method under hypotheses on the first and second Fr chet derivative, Ioannis K. Argyros (103-119)

Identifying a heat source in automatic control problems
CECILIA CAVATERRA and FABRIZIO COLOMBO (01-23)

Strong convergence theorems for a common fixed point of a finite family of nonexpansive mappings
C. E. CHIDUME, H. ZEGEYE and E. PREMPEH (25-32)

Stabilization of the phase-field system via internal feedback control
SHUGANG LI (33-43)

Two-step algorithms and their applications to variational problems
B. E. RHOADES and RAM U. VERMA (45-55)

Operator approximating sequences and fixed points
RAVI P. AGARWAL, DONAL O’REGAN and RAM U. VERMA (57-67)

Existence and multiplicity results for quasilinear boundary value problems with blow-up boundary conditions
MOHAMMED DERHAB (69-105)

Nonlinear internal superposition operator in spaces of summable functions
MICHAEL DRAKHLIN and ELENA LITSYN

Periodic boundary value problems for first order functional impulsive differential inclusions
B. C. DHAGE, J. HENDERSON and JUAN J. NIETO

Coincidence point theorems for set-valued mappings and applications
JONG SOO JUNG

On two improved Durand-Kerner methods without derivatives
Z. HUANG and IOANNIS K. ARGYROS

Variation of constant formulas for parabolic boundary problems
MENG SU

Some results on a class of fractional functional differential equations
CHENG YU and GUOZHU GAO

On the convergence of Broyden’s method
IOANNIS K. ARGYROS

On the recursive sequence $x_{n+1} = A + f(x_n, ..., x_{n-k})/x_{n-k}$
G. L. KARAKOSTAS and STEVO STEVIĆ
A perturbed inertial proximal method for maximal monotone operators  
> A. MOUDAFI  

__________________________________________________________  
Volume 11                   Number 4                OCTOBER 2004  
___________________________________________________________

Blow-up and global existence for the Landau-Lifshitz equation  
> LIJING SUN  

Bounded nonoscillatory solutions for second-order neutral differential equations  
> JIQIN DENG  

Multiple solutions to dynamic equations on time scales  
> CHRISTOPHER C. TISDELL, PAVEL DRÁBEK and JOHNNY HENDERSON  

Existence of extremal random solutions of nonlinear random integral equations  
> B. C. DHAGE, R. N. INGLE and S. K. NTOUNYAS  

Second order right focal boundary value problems on a time scale  
> G. HARRIS, J. HENDERSON, A. LANZ and W. K. C. YIN  

The filtration with third-boundary value in partially saturated layered porous media  
> ZHIDA HUANG  

Deformation method for multi-block mesh  
> JIAXING XUE and GUOJUN LIAO  

Nonlinear perturbed two-point random boundary value problems  
> B. C. DHAGE, J. HENDERSON, R. N. INGLE and S. M. KANG
Existence of solutions of nonlinear stochastic differential inclusions in a Hilbert space  
> P. BALASUBRAMANIAM, S. K. NTOUYAS AND D. VINAYAGAM 01

On solvability and convergence of a class of generalized nonlinear variational inequalities  
> Z. LIU, J. SUN, S. M. KANG AND S. H. SHIM 17

Some control conditions on iterative methods  
> Y. J. CHO, S. M. KANG AND H. ZHOU 27

On the dynamics of $x_{n+1} = (\beta x_n + \gamma x_{n-1})/(Bx_n + Dx_{n-2})$  
> DeVAULT AND S. W. SCHULTZ 35

Closed form solutions of some rational recursive sequences of second order  
> M. BEN H. RHOUMA 41

A general class of nonlinear mixed quasivariational inequalities with nonmonotone set-valued mappings in Banach spaces  
> H. Y. LAN 59

Properties of the generating function method  
> X. XU AND Y. PAN 77

Extremal solutions for impulsive dynamic equations on time scales  
> A. BELARBI, M. BENCHOHRA AND A. OUAHAB 85

On the approximation of strongly regular solutions for generalized equations  
> IOANNIS K. ARGYROS 97

Poincaré return map near a planar center  
> VINCENT NAUDOT AND KOEN NEIRYNCK (1-27)

Nontrivial solutions of a (k, n) boundary value problem  
> DING MA (29-36)

Second order boundary value problems of discontinuous differential inclusions  
> B. C. DHAGE AND RAM VERMA (37-45)

On the strong and weak convergence for implicit iteration processes  
> S. S. CHANG, H. W. JOSEPH LEE, L. YANG AND J. A. LIU (47-60)

A note on multiple solutions for impulsive functional differential equations  
> M. BENCHOHRA, A. OUAHAB, J. HENDERSON AND S. K. NTOUYAS (61-70)

Positive solutions to a third-order right focal boundary value problem  
> MARIETTE MAROUN (71-82)

Eigenvalue comparisons for three-point boundary value problems  
> BASANT KARNA (83-91)

A third order singular three-point boundary value problem  
> PARMJEET SINGH COBB (93-105)
Eigenvalue intervals for even-order-Sturm-Liouville dynamic equations,
> D. R. ANDERSON (1-13)
On the rational recursive sequence,
> E. M. E. ZAYED and M. A. El-MONEAM (15-28)
Best approximation in $L^p(Ω,X)$,
> X. YE, X. XU and X. LUO (29-36)
Eigenvalue comparisons for an impulsive boundary value problem with Sturm-Liouville boundary conditions,
> B. A. LAWRENCE and N. WINTZ (37-45)
Existence results for nonlinear functional random differential equations in Banach algebras,
> B. C. DHAGE (47-67)
Application of generalized averages to uniqueness of solutions, and to a non-local problem,
> PHILIP KORMAN (69-78)
On the existence for the convergence of Mann and Ishikawa iteration with mixed errors for Lipschitz strongly pseudo-contractive mappings,
> S. S. CHANG, J. K. KIM, and Y. J. CHO (79-88)
Multivalued quasivariational inclusions in Banach spaces,
> S. S. CHANG, H. K. PARK, J. K. IM and Y. J. CHO (89-106)

Time almost-periodic solutions for a class of nonlinear hyperbolic problems,
> Rodica Luca (1-14)
An extension of the fixed point theorem of cone expansion and compression of functional type,
> R. I. Avery, D. R. Anderson, and R. J. Krueger (15-26)
On weak convergence by products of mappings in Hilbert spaces,
> K. Nakajo, K. Shimoji, and W. Takahashi (27-50)
On a class of infinite horizon variational problems,
> A. J. Zaslavski (51-57)
Existence results for dynamic equations on times scales with integral boundary conditions
> A. Belarbi, M. Benchohra, S. K. Ntouyas, and A. Ouahab (59-70)
A hybrid fixed point theorem in Banach algebras with applications
> B. C. Dhage, and R. N. Kalia (71-84)
Global convergence of the coordinate relaxation method of nongradient mappings,
> X. Yin (85-96)
Critical point theory on unbounded regions [Research Announcement],
> Martin Schechter (97-105)
Estimates and superpositions of general nonlinear sampling operators and applications  
> Carlo Bardaro, and I. Mantellini (1-36)

On the dynamics of \( x_{n+1} = p_n + x_{n1} / x_{n2} \), \( n = 0, 1, \ldots \) with a periodic coefficient,  
> S. Kalabusic, and M. Nurkanovic (37-57)

Global existence results for impulsive functional dynamic inclusions on time scales in Frechet spaces,  
> John R. Graef, and A. Ouahab (59-81)

Controllability for abstract neutral stochastic integrodifferential inclusions in Hilbert space,  
> P. Balasubramaniam (83-106)
Stability and Hopf bifurcation in the Watt Governor system,
> JORGE SOTOMAYOR, LUIS F. MELLO and DENIS de CARVALHO BRAGA 01
Uniqueness implies uniqueness and existence for nonlocal boundary value problems for third order ordinary differential equations,
> MICHAEL GRAY 19
Coupled random fixed points of random multivalued operator on ordered Banach spaces,
> M. ABBAS and ISMAT BEG 31
Computation of traveling waves via an algorithm for connecting orbits,
§ JORGE REBAZA 43
Impulsive hyperbolic differential inclusions with infinite delay and variable moments,
> JOHNNY HENDERSON and A. OUAHAB 61
Existence, multiplicity and concentration of positive solutions for a class of quasilinear problems with critical growth,
> § G. M. FIGUEIREDO 79
On abstract nonlinear mixed Volterra-Fredholm integro-differential equations,
> M. B. DHAKNE and S. D. KENDRE 101

Higher order boundary value problems with multiple solutions,
> JOHN V. BAXLEY, and MARY E. CUNNINGHAM (1-14)
Multiple positive solutions for singular boundary value problems,
§ MAYA CHHETRI and STEPHEN ROBINSON (15-29)
Uniqueness and existence for unbounded boundary value problems,
> J. EHME, and A. LANZ (31-38)
Existence of solutions for nonlinear boundary value problems,
> JOHN R. GRAEF, and L. KONG (39-60)
Positive solutions for a nonlinear fourth order boundary value problem,
> JOHN R. GRAEF, and B. YANG (61-73)
Existence and uniqueness for boundary controllability of Sobolev - type for nonlinear differential and integrodifferential equations in Fréchet spaces,
> JOHNNY HENDERSON, and A. OUAHAB (75-87)
Existence of solutions of multipoint boundary value problems,
> GARY D. JONES (89-92)
Multi-point boundary value problems of second-order differential equations (II),
> L. KONG, and Q. KONG (93-111)
Solutions of quasilinear semipositone boundary - value problems,
> MATTHEW RUDD (113-119)
On the nth mode numerical solutions of a second order boundary value problem on semi-infinite domain,
> Q. SHENG, and J. W. HAUS (121-133)
Controllability and extremality for differential-difference inclusions,
> A. CERNEA , and CARMINA GEORGESCU (1-12)
Existence results for a class of BVPs on the positive half-line,
> S. DJEBALI, and K. MEMBARKI (13-31)
Riccati difference equations with real period-2 coefficients,
> E. A. GROVE, Y. KOSTROV, G. LADAS, and S. W. SCHULTZ (33-56)
Positive solutions of a left focal second order boundary value problems,
> JOHN E. EHRKE (57-65)
Positive solutions for a class of nonlocal elliptic systems,
> F. J. S. A. CORREA, and F. P. M. LOPES (67-77)
On the exact number bifurcation branches in a square and in a cube,
> DIMITRI MUGNAI, and ANGELA PISTOIA (79-100)
Strong convergence theorems for nonlinear operators in Banach spaces,
> X. QIN, Y. SU, C. WU, and K. LIU (101-114)

Global solutions of parabolic equations with nonlinear boundary conditions,
> MENG SU 01
A two-step Steffensen-type method for nonsmooth variational inclusions,
> SAID HILOUT 27
Strong convergence theorems for nonlinear operators in Banach spaces,
> X. QIN, Y. SU, C. WU, and K. LIU 35
Modified gradient-projection methods for critical points of a constrained nonconvex minimization problem,
> PAUL-EMILE MAINGÉ, and A. MOUDAFI 51
The existence and multiplicity of constant sign solutions to a three-point boundary value problem,
> JOHNNY HENDERSON and N. KOSMATOV

Characterization of restricted p-centers,
> X. F. LUO, and X. B. XU

Parametric generalized Newton-Secant methods with cubic convergence,
> ANGE BAO, and X. B. XU

Uniqueness implies existence for nonlinear conjugate-like boundary value problems,
> JEFFREY EHME, and A. LANZ

Global convergence in difference equations,
> E. CAMOUZIS and G. LADAS

An existence result for nonlinear integrodifferential inclusions,
> AURELIAN CERNEA

Constant signed solutions of a nonlocal boundary value problem on time scales,
> ERIC R. KAUFMANN and N. KOSMATOV

An asymptotic stable result of solutions for an integral equation of mixed type on time scales,
> M. BENCHOHRA, N. HAMIDI, and S. K. NTOUYAS

Existence and algorithm of solutions for a class of generalized nonlinear variational-like inequalities in reflexive Banach spaces,
> Z. LIU, H. GAO, R. U. VERMA, and S. M. KANG

Extended versions of quasilinearization for forced duffing equation,
> B. AHMAD, and B. ALGHAMDI

On the number of singular points of the radial projection of polynomial gradient vector fields of R3 on the sphere S2,
> J. LLIBRE, and ADAM MAHDI

Sign-Changing and extremal constant-sign solutions of
nonlinear elliptic problems with supercritical nonlinearities
> S. CARL, and D. MOTREANU 85

Liapunov methods for higher order five point nonlocal boundary value problems by solution matching,
> JOHNNY HENDERSON 101

____________________________________________________

VOLUME 15 NUMBER 1 JANUARY 2008

____________________________________________________

Nonlocal maximum principles and applications,
> RICARDO ENGUICA & LUIS SANCHEZ 01

The existence of periodic and subharmonic solutions to discrete Hamiltonian systems,
> H. TANG & Z. ZHOU 17

Simple nonautonomous differential equations with many limit cycles,
> B. COLL, A. GASULL, and R. PROHENS 29

A new line search method with trust region for unconstrained optimization,
> G. YUAN & X. LU 35

Uniqueness implies existence for general three-point boundary value problems on time scales,
> K. R. PRASAD & P. MURALI 51

Generic continuity of a lower semicontinuous mapping,
> ALEXANDER J. ZASLAVSKI 61

Global dynamics of a rational system of difference equations in the plane,
> DZ. BURGIC, M.R.S. KULENOVIC, and M. NURKANOVIĆ 71

On a two-step Newton method for solving equations under improved Ptak-type estimates,
> I. K. ARGYROS 85

ERRATA: 95
CONTENTS

The Tricomi equation: A case study,
> J.W. NEUBERGER 01

Non-simple waves via conservation laws for two-dimensional shock waves,
> GHOlam-ALI ZAKERI 09

Convergence theorems of Ishikawa iterates with modified errors for multivalued nonexpansive/quasi-contractive maps in Hilbert spaces,
> G.B.R. BABU, M.V.R. KAMESWARI and M.L. SANDHYA 27

Fixed point theory for \( \alpha \)-condensing set valued maps in hyperconvex metric spaces,
> A. AMINI-HARANDI, A.P. FARAJZADEH, D. O’REGAN and R.P. AGARWAL 39

On the rational recursive sequence,
> E.M.E. ZAYED and M.A. EL-MONEAM 47

Positive solutions for systems of nonlinear generalized three-point boundary value problems with deviating arguments,
> J. HENDERSON, S.K. NTOUYAS and I.K. PURNARAS 59

A nonlinear system of difference equations linking mosquitoes, habitats, and community interventions,
> T. AWERBUCH-FRIEDLANDER, R. LEVINS, E. CAMOUZIS, E. A. GROVE and G. LADAS 77

Asymptotic stability of nonlinear functional integral equations via measures of noncompactness,
> B.C. DHAGE 89

A short note on the Y2K problem,
> HRISTO VOULOV 103

CONTENTS

> Asymptotic uniqueness of solutions for an elliptic problem with nearly critical growth on symmetric domains, T. SATO & F. TAKAHASHI 01
> Asymptotic behavior of the nonautonomous difference equation,
A. AGHAJANI
> The strong nonlinear limit-point/limit-circle properties for a class of even order equations, M. BARTUSEK & JOHN R. GRAEF 19
> Existence results for a fractional functional differential equation of mixed type, M.A. DARWISH & S.K. NTIOUYAS 29
> Existence results for degenerate quasilinear elliptic equations, ALBO CARLOS CAVALHEIRO 57
> Viscosity approximation algorithms of common solutions for fixed points of infinite nonexpansive mappings and quasi-variational inclusion problems, L. ZHAO, S.S. CHANG & M. LIU 71

VOLUME 15 NUMBER 4 OCTOBER 2008

CONTENTS

> From iterated function systems to iterated multifunction systems, HERB KUNZE, DAVIDE LA TORRE, and EDWARD R. VRSCAY 01
> Exact number of positive solutions for a class of quasilinear boundary value problems, M. DERHAB, and M. MEGNAFI 15
> On asymptotic behavior of a nonlinear functional integral equation, B. C. DHAGE, A. V. DESHMUKH, and JOHN R. GRAEF 55
> Using projections in a direct minimization scheme for a wide class of energy functionals, PARIMAH KAZEMI 69

VOLUME 16 NUMBER 1 JANUARY 2009

CONTENTS
> Fourth-order boundary value problems with multi-point boundary conditions,
C. V. PAO, and Y. M. WANG 01
> Solvability of a functional integral equation under Carathéodory conditions,
M. A. DARWISH, and J. HENDERSON 23
> An iterative scheme for generalized equilibrium problems and fixed points problems
of strictly pseudocontractive mappings,
Y. YAO, Y. C. LIOU, and G. MARINO 37
> On global existence of solutions of abstract nonlinear mixed integrodifferential
equation with nonlocal condition,
H. L. TIDKE, and M. B. DHAKNE 49
> Successive approximations to solutions of dynamic equations on time scales,
CHRISTOPHER C. TISDELL, and ATIYA H. ZAIDI 61
> On the global behavior of solutions to a planar system of difference equations,
S. BASU, and ORLANDO MERINO 89

**CONTENTS**

> Boundary data smoothness for solutions of nonlocal boundary value problems for
second order difference equations,
B. HOPKINS, E. KIM, J. LYONS, and K. SPEER 01
> Periodic solutions for nonautonomous second order differential inclusions
systems with p-Laplacian,
DANIEL PASCA 13
> Convergence of a composite iterative method for nonexpansive nonself-mappings,
J. S. JUNG 25
> Dynamics of a recursive sequence of higher order,
E. M. ELSAYED 37
> On the global character of the system,
E. CAMOUZIS, E. DRYMONIS and G. LADAS 51
> Existence of minimal and maximal solutions for a fourth-order differential equation
with multipoint boundary conditions,
M. DERHAB and B. MESSIRDI 65
> Qualitative theory of divided difference first order systems,
RAVI P. AGARWAL and SANDRA PINELAS 83

**VOLUME 16 NUMBER 2 APRIL 2009**
CONTENTS

> Global behavior of two competitive rational systems of difference equations in plane,
  A. BRETT, M.R.S. KULENOVIC, M. GARIC-DEMIROVIC and M. NURKANOVIC (1-18)
> Upper and lower solutions method for a superlinear duffing equation, C. W. WANG,
  D. BLACKMORE and X. WANG (19-29)
> From alternating minimization algorithms and systems of variational inequalities to
  equilibrium problems, A. MOUDAFI (31-35)
> Integral stability in terms of two measures for impulsive differential equations with supremum,
  S. HRISTOVA (37-49)
> A Γ-convergence result in nonlinear plate theory, C. POPOVICI (51-66)
> Existence and approximation of solutions of nonlinear problems with nonlinear boundary
  conditions, R. A. KHAN (67-80)
> On continuous solutions of nonlinear integral equations, M. B. DHAKNE and R. S. JAIN
  (81-90)
> On the rational recursive sequence, E. M. E. ZAYED and M. A. EL-MONEAM (91-106)

VOLUME 16       NUMBER 4       OCTOBER 2009

CONTENTS

> Optimal control on infinite dimensional Banach spaces of neutral systems driven
  by vector measures, N. U. AHMED (1-14)
> Robust solutions of uncertain extended weighted Steiner problems with
  applications,
  H.M. ZHAO, X.Z. XU and N.J. HUANG (15-26)
> Stepanov-like almost automorphic solutions for nonlocal Cauchy problems,
  P. FREMPONG-MIREKU and H. LEE (27-37)
> A topological proof and extension of the Leggett-Williams fixed point theorem,
  R.I. AVERY, J. HENDERSON and D.R. ANDERSON (39-44)
> The Perron integral of order two in Riesz spaces via Peano derivatives, A.
  BOCCUTO, A.R. SAMBUCINI and V.A. SKVORTSOV (45-59)
> An eigenvalue inequality for the periodic p-Laplacian and an explicit bound, M.
  BROWN and M. EASTHAM (61-71)
> On the convergence of Steffensen’s method on Banach spaces under the gamma
  condition, I.K. ARGYROS and S. HILOUT (73-84)
> Variational inclusions for fractional differential inclusions, A. CERNEA (85-92)
CONTENTS

> Existence of common fixed points in Menger spaces, I. BEG and M. ABBAS (93-100)

> Multiple positive solutions for nonlinear third order general three point boundary value problems on time scales, K. R. PRASAD and N. V. V. S. SURYANARAYANA (1-11)


> Pseudo-almost automorphic solutions to a class of semilinear fractional differential equations, C. CUEVAS, M. RABELO and H. SOTO (31-47)

> On using the $(G\theta/G)$-expansion method for solving nonlinear partial differential equations in mathematical physics, E. M. E. ZAYED and S. AL-JOUDI (49-64)

> A game-theoretic approach in single-server queues with maintenance: Time sensitive analysis, N. AL-MATAR and JEWGENI H. DSHALALOW (65-92)

> The use of core functions in semilinear problems, MARTIN SCHECHTER (93-102)

VOLUME 17 NUMBER 1 JANUARY 2010

CONTENTS

> On a system of two exponential type difference equations, G. STEFANIDOU, G. PAPASCHINOPOULOS, and C. J. SCHINAS (1-13)

> New family of centers for polynomial vector fields of arbitrary degree, A. CIMA, J. LLIBRE and J. C. MEDRADO (15-24)

> Topological transversality method and fractional order differential equations, M. BENCHOHRA, N. HAMIDI and J. J. NIETO (25-34)

> Approximate solutions to nonlinear mixed type integrodifferential equation with nonlocal condition, H. L. TIDKE and M. B. DHAKNE (35-44)

> A new general approach to resolvent operators and proximal point algorithms, A. MOUDAIFI (45-52)

> Multiplicity results for positive solutions of a coupled system of singular boundary value problems, N. A. ASIF and R. A. KHAN (53-68)

> On global behavior of ..., E. A. GROVE, Y. KOSTROV, M. A. RADIN and S. W. SCHULTZ (69-81)

> The auxiliary equation method and its applications for solving nonlinear partial differential
equations, E.M.E. ZAYED and S. AL-JOUDI (83-101)
> A new iterative method for solving a system of generalized variational inequalities in Banach spaces, S.S. CHANG and J.A. LIU (103-113)
### Volume 18  Number 1  January 2011

**CONTENTS**

> Patterns of boundedness of the rational system, E. CAMOUZIS, E. DRYMONIS and G. LADAS 01
> Existence of multiple positive solutions for a general system of fractional differential equations, R.A. KHAN and M. REHMAN 25
> A global uniqueness result for abstract integral equations of Volterra type in Banach spaces, M. BENCHOHRA and S. LITIMIEN 37
> Strong convergence theorems for asymptotically relatively nonexpansive mappings with applications, S.S. CHANG, X.R. WANG, H.W. JOSEPH LEE and C.K. CHAN 45
> On nondifferentiable minimax fractional programming involving generalized (C,α,ρ,d)-convexity, A. JAYSALWAL and D. KUMAR 61
> Study of quasilinear elliptic equation in $\mathbb{R}^n$, M. BENRHOUMA 79
> Set functional differential equations, U. ABBAS and V. LUPULESCU 97

### Volume 18  Number 2  April 2011

**CONTENTS**

> Existence of minimal and maximal solutions for a fourth order differential equation with nonlocal boundary conditions, M. DERHAB and B. MESSIRDI (1-19)
> Oscillation criteria for third order nonlinear differential equations, JOHN R. GRAEF and M. REMILI (21-28)
> A note on generalized vector variational-like inequalities, Y. J. CHO, M.F. KHAN and SALAHUDDIN (29-46)
> Vector implicit mixed quasi complementarity problems, S.A. KHAN, Q.H. KHAN and F. SUHEL (47-55)
> Convergence of inexact orbits of contractive mappings in metric spaces, SIMEON REICH and ALEXANDER J. ZASLAVSKI (57-63)
> Global asymptotic stability for a class of general symmetric rational difference equations, ZHANG, N.J. HUANG and Y.Z. ZHOU (65-73)
> Second-order optimality conditions for problems with locally Lipschitz data via tangential directions, ELENA CONSTANTIN (75-84)
> Resolvent operators for a fractional integro-differential equation, J.P.C.D. SANTOS (85-98)
> On optimality and duality for non differentiable minimax fractional optimization problems with generalized convexity, S.K. MISHRA and A.K. SINGH (99-106)
CONTENTS
Oscillation criteria for fourth-order nonlinear dynamic equations,
> RAVI AGARWAL, E. AKIN-BOHNER and S. SUN (1-16)
Global existence and convergence theorems for hybrid differential equations,
> B.C. GHAGE (17-30)
Multi-point boundary value problems for fractional differential equations,
> R.A. KHAN (31-40)
Existence of positive solutions of a second order right focal boundary problem,
> D.R. ANDERSON, R.I. AVERY, J. HENDERSON and X. LIU (41-52)
The homotopy analysis methods for solving the nonlinear evolution equations in
mathematical physics,
> E.M.E. ZAYED and H.M. ABDEL RAHMAN (53-70)
Remarks on fixed points of generalized upper hemicontinuous maps,
> SEHIE PARK (71-78)
On mild solution of second order functional integrodifferential equation with
nonlocal condition,
> K.D. KUCCHE and M.B. DHAKNE (79-88)
Optimal intervals for uniqueness of solutions for nonlocal boundary value problems,
> PAUL W. ELOE and JOHNNY HENDERSON (89-97)
Note on Fermat extreme value theorem,
> SANJO ZLOBEC (99-103)

CONTENTS
> Guang He and N.J. Huang, Existence for modified operator equations with an
application (1-6)
> P. Kumar Das, On a class of T-η-hyperinves function and generalized hyper differential
dominated vector variational inequality problem (7-22)
> I.K. Argyros and S. Hilout, A convergence analysis foe directional Newton-like
methods (23-38)
> E.M.E. Zayed, Dynamics of the rational difference equation (39-56)
> A. Jayswal, I. Ahmad and D. Kumar, Nondifferentiable minimax fractional programming
problem with nonsmooth generalized convex functions (57-75)
> V.V. Khuong and M.N. Phong, A note on global behavior of solutions and positive
nonoscillatory solution of a difference equation (77–88)

> I.K. Argyros and H. Ren, A note on the iteratively regularized Gauss-Newton method under center-Lipschitz conditions (89–96)

VOLUME 19 NUMBER 1 JANUARY 2012

CONTENTS

> Convergence in variation for a homothetic modulus of smoothness in multidimensional setting, LAURA ANGELONI (1—22)
> Derived cones to reachable sets of fractional differential inclusions, AURELIAN CERNEA (23—31)
> The existence of a solution to a fractional order initial value problem, BRIAN LEONARD and NICKOLAI KOSMATOV (33—42)
> Algorithms with strong convergence for a system of general nonlinear variational inequalities in Banach spaces, J.H. ZHU, S.S. CHANG and M. LIU (43—57)
> Remarks on simplicial spaces and $L^*$-spaces of Kulpa and Szymanski, SEHIE PARK (59—69)
> New conditions for stability of switched Hopfield neural networks, CHOON KI AHN (71—78)
> Global asymptotic stability of solutions of nonlinear quadratic Volterra integral equations of fractional order, S. ABBAS, M. BENCHOHRA and JOHNNY HENDERSON (79—89)

RESEARCH ANNOUNCEMENTS

> Ground state solutions of superlinear Schrödinger equations, MARTIN SCHECHTER (91—97)
> The $\varepsilon$-optimality conditions for multiobjective fractional programming problems, R.N. MOHAPATRA and R.U. VERMA (99--108)

VOLUME 19 NUMBER 2 APRIL 2012

CONTENTS

> A straightening theorem for non-autonomous iteration, MARK COMERFORD (1-23)
> Application of a functional type compression expansion fixed point theorem for a right
focal boundary value problem on a time scale,
X. LIU, JEFFREY T. NEUGEBAUER and SHAWN SUTHERLAND (25-39)
> Basins of attraction of an anti-competitive system of difference equations in the plane,
M.R.S. KULENOVIC and M. NURKANOVIC (41-53)
> On the semilocal convergence of the secant method with regularly continuous divided differences,
IOANNIS K. ARGYROS and SAID HILOUT (55-69)
> Stability of coupled fixed point iteration and the continuous dependence of coupled fixed points,
M.O. OLATINWO (71-83)
> Positive solutions of singular second order integral boundary value problem,
G. CHAI and J. PAN (85-98)
1. > Convergence of projection algorithms to approximate solutions of convex feasibility problems,
ALEXANDER J. ZASLAVSKI (99-105)

VOLUME 19        NUMBER 3        JULY 2012

CONTENTS

> A new simple existence theorem for fully nonlinear elliptic equations,
GARY M. LIEBERMAN (1 – 13)
> A resonance problem for degenerate semilinear elliptic equations,
RASMITA KAR (15 – 23)
> Multiple solutions for a nonlocal perturbed elliptic problem of p-Kirchhoff type,
S. HEIDARKHANI and JOHNNY HENDERSON (25 – 39)
> On generalized convolutions for Fourier transforms and application in solving nonlinear integral equations,
N.M. KHOA (41 – 57)

> Existence results for nonlinear q-difference equations with nonlocal boundary conditions,
B. AHMAD, S.K. NTOUYAS and I.K. PURNARAS (59 – 72)
> Traveling wave solutions of spatially periodic nonlocal monostable equations,
WENXIAN SHEN and AIJUN ZHANG (73 - 101)
> Exact number of positive solutions for a class of quasilinear boundary value problems with a singular nonlinearity,
M. DERHAB and H. SEBBAGH (103 – 125)
CONTENTS

> Hanson-Antczak-type generalized invex functions in semiinfinite minmax fractional programming, Part I: Sufficient optimality conditions,
G.J. ZALMAI (1 - 36)
> Stability of the Picard iterative procedure for mappings which satisfy implicit relations,
IOANA TIMIS (37 - 44)
> Existence of mild solutions for fractional impulsive semilinear integrodifferential equations in Banach spaces,
D.N. CHALISHAJAR, K. KARTH_IKEYAN & J.J. TRUJILLO (45 - 56)
> Remarks on a generalized KKM theorem without convex hull,
SEHIE PARK (57 - 65)
> On some common random fixed point theorems with PPF dependence in Banach spaces,
B.C. DHAGE, S.K. NTOUYAS & V.S. PATIL (67 - 81)
> On some basic results for nonlinear first-order hybrid fractional differential equations,
B.C. DHAGE & P.V. MUGALE (83 - 97)
> Existence theorems of generalized abstract fuzzy economies in locally FC-uniform spaces,
X. WU & LEI WANG (99 - 109)
> Equilibrium points for two related projective dynamical systems,
Y.Z. ZOU & C.Y. SUN (111 - 119)

CONTENTS

> A sufficient condition for the convergence of a certain modulus of smoothness in multidimensional setting,
LAURA ANGELONI and GIANLUCA VINTI (1 – 20)
> An impulsive boundary value problem for singular multi-term fractional differential equations on the half line,
  YUJI LIU and BASHIR AHMAD (21 – 54)
> Hanson-Antczak – type generalized invex functions in semiinfinite minmax fractional programming, Part II:
  First-order parametric duality models,
  G.J. ZALMAI (55 – 85)
> An example employing convexity in functional fixed point arguments,
  RICHARD I. AVERY, PAUL W. ELOE and JOHNNY HENDERSON (87- 96)
> Turnpike properties of approximate solutions in the calculus of variations without convexity assumptions,
  ALEXANDER J. ZASLAVSKI (97- 108)

VOLUME 20        NUMBER 2
APRIL  2013
CONTENTS

L^∞-Estimate for Some Quasilinear Degenerate Elliptic Equations,
> Albo Carlos Cavalheiro 01

Boundary Data Smoothness for Solutions of Higher Order Ordinary Differential Equations with Integral Boundary Conditions,
> Johnny Henderson 21

Global Attractivity in a Variable Coefficient Nonlinear Delay Differential Equation,
> Chuanxi Qian 33

Hanson-Antczak-Type Generalized Invex Functions in Semiinfinite Minmax Fractional
CONTENTS

> Periodic Solutions of a Single Species Renewable Resources Under Periodic Habitat Fluctuations with Harvesting and Allee Effects, S. PATI, JOHN R. GRAEF, S. PADHI and P. K. KAR (1--16)

> Controllability of Non-densely Defined Functional Mixed Integrodifferential Equations in Banach Spaces, K. D. KUCCHE and M. B. DHAKNE (17--32)

> Second Order Multiobjective Fractional Symmetric Duality Over Cone Constraints, ANURAG JAYSWAL, A. K. PRASAD and I. AHMAD (33--46)

> Some Relations Between Interval-valued Optimization and Variational-like Inequality Problems, ANURAG JAYSWAL, J. BANERJEE and R. U. VERMA (47--56)

> The Neumann Problem for a Class of Degenerate Elliptic Equations, RASMITA KAR (57--64)

> Singular Perturbation of a Second-Order Nonlocal Boundary Value Problem, X. LIN (65—72)

> Iterative Method for Common Fixed Points for Family of Generalized Asymptotically Quasi-$\phi$-strict Pseudo-contractions, BASHIR ALI and G. C. UGWUNNADI (73--86)

> On Some Nonhomogeneous Degenerate Quasilinear Equations Arising in the Continuum Mechanics, SAMI AOUAOU (87—108)
CONTENTS

The Boundedness Characterization of Three Families of Systems of Difference Equations,
> CHRIS D. LYND (1 - 20)

Two-parameter Bifurcation Analysis of a Discrete Analogue of the Lotka-Volterra System,
> REZA KHOSHSIAR GHAZIANI (21 - 41)

Dynamics of the Rational Difference Equation
$x_{n+1} = \frac{\gamma x_n + \alpha x_{n-l} + \beta x_{n-k}}{A x_{n-l} + B x_{n-k}}$,
> E. M. E. ZAYED and M. A. EL-MONEAM (43 - 53)

On the Semilocal Convergence of Derivative Free Chebyshev-Kurchatov Three Step Method for Solving Equations,
> IOANNIS K. ARGYROS and HONGMIN REN (55 - 64)

Existence and Uniqueness of Solutions to Nonlinear Integral-Algebraic Equations with Variable Limits of Integrations,
> M.V. BULATOV, M.N. MACHKHINA and V.N. PHAT (65 – 76)

On Some One-Dimensional Eigenvalue Problem Involving Variable Exponents,
> SAMI AOUAOUI (77 - 86)

Supplementary Conditions for the Tricomi Equation,
> J.-W. MONTGOMERY (87 - 99)

CONTENTS

A Convergence Analysis of an $S^r$-order Four Method with Reduced Computational Cost in Banach Spaces
> I. K. ARGYROS and S. K. KHATTRI (1 - 12)

Agreeable Solutions for the Robinson-Solow-Srinivasan Model of Economic Dynamics
> ALEXANDER J. ZASLAVSKI (13 - 28)

Expanding the Applicability of the Gauss-Newton Method for Convex Optimization under a Condition
> I. K. ARGYROS and SANTOSH GEORGE (29 - 44)

A Unified Approach for the Convergence of Nonlinear Kantorovich Type Operators
> FLAVIA VENTRIGLIA and GIANLUCA VINTI (45 - 74)

A Study of Generalized Vector Rotational Problem and Quadratic $T^\ast\eta$-invexity
> PRASANTA KUMAR DAS (75 - 96)

New Explicit Forms of Traveling Waves for Vibrational Dynamics of DNA Using a Direct Integral Method
> E.M.E. ZAYED (97 – 104)

CONTENTS

Positive Solutions for Systems of Multi-point Nonlinear Boundary Value Problems
> Johnny Henderson and Rodica Luca (1 – 12)

Non-existence of Solutions for Non-autonomous Elliptic Systems of Hamiltonian Type
> Philip Korman (13 – 20)
A New System of Extended Nonlinear Regularized Nonconvex Set-valued Variational Inequalities
> Jong Kyu Kim, Salahuddin and A. Farajzadeh (21 – 40)
Existence Results for Prion Disease Model with Impulse Effects
> Abdelkader Lakmeche, Imane Mammar and Abdelghani Ouahab (41 – 52)
Analysis and Simulations of Travelling Waves in a Single Species Reaction-Diffusion Model with Spatiotemporal Delay
> Gaoxiang Yang and Jian Xu (53 – 66)
Solution to Time Fractional Wave Equation in the Presence of Friction Via Integral Transform
> A. Aghili and H. Zeinali (67 – 88)
Nonlinear Second-order Impulsive $q$-difference Equations
> Phollakrit Thiramanus, Sotiris K. Ntouyas and Jessada Tariboon (89 - 102)

**VOLUME 21 NUMBER 4 OCTOBER 2014**

CONTENTS

On the Global Character of the Difference Equation, Part 1
> E. DRYMONIS (1 - 15)
On the Exponential Stability of Nonlinear Difference Equations in Banach Spaces
> N.S. BAY (16 - 26)
Approximating Monotonically the Unique Random Solutions of Second Order Random Differential Equations
> B.C. DHAGE (27 - 39)
Pricing Models of Dynamic Reverse Mortgage
> H. YANG, W. -Y. YAN and D. -Y. REN (40 - 55)
LMI-Based Synchronization for Uncertain Fractional-Order Chaotic Systems
> K. YAN, Y. Fang and K. LI (56 - 71)
Response Surface Analysis with Regression Models for Quantitative Evaluation on the Quality of Wine
> W. MAO, A. -Y. CHEN, H. -Y. LAN and J. DU (72 - 80)
On the Strong Solutions of Two Operator Equations in Hilbert Space for a Kirk-Mann Iterative Process
> M. O. OLATINWO (81 - 88)
Convergence Theorems of S-iteration Process for Quasi-contractive Mappings in Banach Spaces
> J.K. KIM, S. DASHPUTRE and H.G. HYUN (89 – 99)

**VOLUME 22 NUMBER 1 JANUARY 2015**

CONTENTS

Existence of Minimal and Maximal Solutions for a Second Order Quasilinear Impulsive Differential Equation with Integral Boundary Conditions
> M. DERHAB and H. MEKNI (1 - 21)
Existence of Solutions for a Fractional Boundary Value Problem with Lower-Order Fractional Derivative Dependence on the Half-line
> AMINA BOUCENNA and T. MOUSSAOUI (22 - 45)
Existence and Stability Results for Nonlinear Implicit Neutral Fractional Differential Equations with Finite Delay and Impulses  
> M. BENCHOHRA, S. BOURIH and JOHNNY HENDERSON (46 - 67) 
On Parametric Generalized Vector Quasi Equilibrium Problems 
> SALAHUDDIN and R.U. VERMA (68 - 79) 
A Multiplicity Result for Some Eigenvalue Problem Involving Exponential Growth Condition  
> SAMI AOUAOU (80 - 90) 
Sensitivity Analysis for General Nonlinear Nonconvex Variational Inequalities 
> SALAHUDDIN and R.U. VERMA (91 - 100) 

VOLUME 22 NUMBER 2 APRIL 2015 

CONTENTS 

Some New Lyapunov-type Inequalities for Third Order Differential Equations 
JOHN R. GRAEF, R. MAHMOUD, S.H. SAKER AND E. TUNC (1 -16) 
Generalized Parametric Duality Models in Discrete Minmax Fractional Programming 
Based on Second-Order Optimality Conditions 
RAM U. VERMA AND G.J. ZALMAI (17 - 36) 
A Note on Minkowski’s Inequality 
X. -X. GAN (37 - 45) 
A New Approach of the Parallel Sum: Properties and Algorithmic Aspects 
A. MOUDAFI AND M. RAMAZANNEJAD (46 - 57) 
Generalized Second-Order Parameter-Free Optimality Conditions in Discrete Minmax Fractional Programming 
RAM U. VERMA AND G.J. ZALMAI (58 - 79) 
Approximate Solutions of Common Fixed Point Problems 
ALEXANDER J. ZASLAVSKI (80 - 89) 
Well Posed Generalized Vector Quasi Equilibrium Problems 
SALAHUDDIN AND RAM U. VERMA (90 - 102) 

VOLUME 22 NUMBER 3 JULY 2015 

CONTENTS 

On a First Order Rational System of Difference Equations with Non-Constant Coefficients, 
> Yevgeniy Kostrov and Zachary Kudlak (1 - 24) 
Separation for a Biharmonic Higher-order Ordinary Differential Equation in a Hilbert Space 
Associated with an Existence and Uniqueness Theorem, 
> Elsayed M. E. Zayed (25 - 33) 
Approximating Monotonically the Unique Random Solutions of Second Order Periodic Random Boundary Value Problems, 
> Bapuroa C. Dhage and Ram G. Metkar (34 - 44) 
A Theoretical Study of a Free Surface Flow Problem with Superficial Tension, 
> C. Titri-Bouadjenak, R. Ait-Yahia-Djouadi, D. Hernane-Boukari and D.E. Teniou (45 - 60) 
Jacobi Multi-Wavelets Adaptive Method for Numerical Simulation of Gas Separations 
Hollow Fiber Membranes,
> **Hamou Maamar Maghnia and Omar Belhamiti (61 - 81)**
On the Existence of Positive Solutions for a Variational Inequality of Kirchhoff Type on the Half-line,

> **Ouided Frites and Toufik Moussaoui (82 - 92)**
On Abstract Nonlinear Fractional Integrodifferential Equations with Integral Boundary Condition,

> **S. D. Kendre, V. V. Kharat and T. B. Jagtap (93 - 108)**

**VOLUME 22 NUMBER 4 OCTOBER 2015**

**CONTENTS**

Multiplicity Results for Singular Second Order Boundary Value Problems,

> **A. Benmezai, W. Esserhane and Johnny Henderson (1 - 28)**
On Sufficiency for Semiinfinite Multiobjective Fractional Programming Problems Using Generalized \((\alpha,\eta,\rho)\)-\(V\)-Univex Functions,

Existence of Positive Solutions for a Third Order Multi-point Boundary Value Problem with Delay,

> **S. Blaha, Ahmed Lakmeche, A. Lakmeche and S. Mokeddem (49 - 61)**
A Unified Convergence Analysis for a Certain Family of Iterative Algorithms with Applications to Fractional Calculus,

> **George A. Anastassiou and Ioannis K. Argyros (62 - 78)**
Generalized Higher Order Hybrid Invexities with Second-Order Parametric Optimization Criteria for Discrete Minmax Fractional Programming,

Split Feasibility Quasi Variational Inequality Problems involving cocoercive mappings in Banach Spaces,

> **Salahuddin and R.U. Verma (95 - 101)**

**VOLUME 23 NUMBER 1 JANUARY 2016**

**CONTENTS**

Convergence of solutions of concave discrete optimal control problems in the regions close to the endpoints,

> **Alexander J. Zaslavski (1 - 10)**
Higher order parametric optimality conditions in semiinfinite discrete minmax fractional programming based on generalized \((\phi,\eta,\zeta,\rho,\theta,\tilde{m})\)-convexities,

> **Ram U. Verma and G. J. Zalmai (11 - 33)**
Discretized Newton-Tikhonov Method for Ill-posed Hammerstein type equations,

> **Ioannis K. Argyros, Santhosh George and M. E. Shobha (34 - 55)**
Local Convergence of inexact Gauss-Newton-like method for least square problems under weak Lipschitz condition,

> **Ioannis K. Argyros and Santhosh George (56 - 70)**
Extended systems of nonlinear vector quasi variational inclusions and extended systems of nonlinear vector quasi optimization problems in locally FC-spaces,

> **Salahuddin and Ram U. Verma (71 - 88)**

Strong convergence theorems of Bregman totally quasi-asymptotically
nonexpansive semi-groups in reflexive Banach spaces,
> Jinhua Zhu, Shih-sen Chang and Min Liu (89 – 103)

VOLUME 23 NUMBER 2 APRIL 2016

CONTENTS

On a system of Riemann-Liouville fractional boundary value problems,
> Johnny Henderson and Rodica Luca (1 - 19)
On generalized vector quasi-equilibrium problems in Hadamard manifolds with an application,
> Da-peng Gao and Shi-qiang Feng (20 - 32)
Periodic solutions of Clarke's subdifferential type evolution inclusions with multivalued perturbations,
> Yi-rong Jiang (33 - 56)
Generalized Newton-like methods for local convergence analysis,
> Ioannis K. Argyros and Ram U. Verma (57 - 62)
Hybrid second-order parametric optimality conditions in discrete minmax fractional programming,
> Ram U. Verma and G. J. Zalmai (63 - 94)
Estimates of some applicable inequalities on time scales,
> Deepak B. Pachpatte (95 - 103)

Volume 23 Number 3 July 2016

CONTENTS

Second-order parametric optimality conditions in discrete minmax fractional programming,
> Ram U. Verma and G. J. Zalmai (1 - 32)

Boundary value problems for differential inclusions with integral and anti-periodic conditions,
> N. Guerraiche, S. Hamani and J. Henderson (33 - 46)

A system of generalized implicit variational inclusions in Banach spaces,
> W. Zhou, Shu-qiang Shan and Yi-lin Wang (47 - 56)

Global existence results for second order evolution equations,
> M. Benchohra, J. Henderson and N. Rezoug (57 - 67)

On the hyper-order of solutions of nonhomogeneous linear differential equations with entire coefficients,
> N. El Imane K. Cheriet and K. Hamani (68 - 78)

Multiobjective variational problem through generalized $(F, \rho)$-invex functionals of higher order,
> P. Kumar and Bharti Sharma (79 - 92)

Global behavior of a system of rational difference equations,
> Mai Nam Phong (93 - 107)
Robust finite-time stabilization of nonlinear systems with multiple Delays in States and Controls,
> **P. Niamsup, N.T. Thanh and Vu N. Phat** (1 - 13)

Nonautonomous Riccati difference equation with real $k$-periodic ($k \geq 0, k \neq 1$) coefficients,
> **Raouf Azizi** (14 - 32)

Application of the functional compression-expansion fixed point theorem using comparison functionals involving the derivative,
> **R.I. Avery, D.R. Anderson and J. Henderson** (33 - 40)

Critical points concept: A fixed point approach,
> **A. Moudafi** (41 - 47)

Existence and uniqueness results for nonlinear implicit fractional differential equations with delay in Fréchet spaces,
> **M. Benchohra and Kadda Mazouz** (48 - 59)

Proximal point algorithm with computational errors and approximate solutions of variational inequalities,
> **A.J. Zaslavski** (60 – 71)

Local convergence for inverse free Jarratt-type method in Banach space under Hölder conditions,
> **I.K. Argyros and S. George** (72 – 81)

On penalty methods for non-stationary general set-valued equilibrium problems,
> **Salahuddin** (82 – 92)

A nonlinear fractional boundary value problem involving Riemann-Liouville fractional derivatives of two different orders,
> **John R. Graef, M. Wang and G. Yost** (93 – 102)
On a generalized subclass of analytic and bi-univalent functions,\ 
> Pravati Sahoo and Saumya Singh (82 - 90)

Hybrid type new generation Newton methods with cubic convergence rates,
> Ram U. Verma (91 – 98)

Existence and stability of solutions for generalized quasi-variational\ hemivariational inequalities,
> Bin Chen (99 – 109)

Volume 24 Number 2 April 2017

CONTENTS

Growth of transcendental meromorphic solutions of some higher order linear differential equations,
> Karima Hamani and Benharrat Belaidi (1 – 17)

Best p-simultaneous approximation in K^{[o]} the Bochner function spaces,
> Mona Khandaqji (18 – 27)

Generalized projections and equivalent representations of James orthogonal decompositions in Banach spaces,
> Ya. I. Alber (28 – 48)

Extending the local convergence analysis of Newton's method,
> Ioannis K. Argyros and Nirjal Shrestha (49 – 60)

Hanson-Antczak-type (\alpha, \beta, \gamma, \eta, \xi, \omega, \rho, \theta)-V-sonvexities in semiinfinite\ multiobjective fractional programs for second-order parametric duality models,
> Ram U. Verma and G. J. Zalmai (61 – 92)

Existence results of first-order differential equations with integral boundary conditions at resonance,
> M. Derhab, T. Khedim and B. Messirdi (93 – 106)

Volume 24 Number 3 July 2017

CONTENTS

Chemotherapeutic treatment models by drugs with instantaneous effects,
> F. Charif, M. Helal and A. Lakmeche (1 - 24)

New generation duality models in discrete minmax fractional programming on sounivexities,
> R. N. Mohapatra and R. U. Verma (25 - 47)

Impulsive fractional differential equations involving the Hadamard fractional derivative,
> S. Hamani, A. Hammou and J. Henderson (48 - 58)

Set valued exponential type g-mixed vector variational inequality problems,
> Salahuddin (59 - 73)

On interval-valued \eta-pseudolinear optimization problems,
> Vivek Laha, Amod Kumar and S. K. Mishra (74 - 89)

Minimax fractional integral programming I,
> Ram U. Verma (90 – 103)
CONTENTS

Fixed point problems with operators given by total asymptotically nonexpansive approximations,
> Ya. I. Alber and Ram U. Verma (1 - 28)
Optimal control of two-drug therapy for a HIV model,
> Bing Sun and Yang Jiao (29 – 45)
Global dynamics of the general second order difference equation in the first quadrant,
> J. Bektević, M.R.S. Kulenović and E. Pilav (46 – 81)
Bifurcation analysis and chaos control in Rucklidge system with delayed feedback,
> E. S. Aly, M. A. El-Moneam and Wael Mohammed (82 - 100)
Positive solutions of boundary value problems for ordinary differential equations with dependence on higher order derivatives,
> Ahlam Abid and Paul Eloe (101 - 108)

CONTENTS

A dynamical study of fractional order obesity model by a combined Legendre wavelet method,
K. Hakiki, O. Belhamiti and Z. Dahmani (1 - 22)
Gap functions and error bounds for a class of inverse quasi-variational inequality system in Hilbert spaces,
Xin He, Yun-zhi Zou and Xue-song Li (23 – 38)
Generalization of the functional omitted ray fixed point theorem,
R. I. Avery, D. R. Anderson and J. Henderson (39 – 51)
Controllability of functional differential equations with delay and random effect,
Mouffak Benchohra and Fatima Bouzzaoui (52 – 65)
Existence and stability of steady states for a delay model of stem cells in Leukemia under treatment,
Isma Younes, Mohamed Helal and Abdelkader Lakmeche (66 – 80)
Existence and uniqueness results for iterative Volterra integrodifferential equation of fractional order,
S. I. Unhale and S. D. Kendre (81 – 91)
Hybrid Integral Type Programming Problems,
Ram U. Verma (92 - 105)
Mathematical analysis of an age structured Leukemia model,
M. Bouizem, B. Ainseba and A. Lakmeche (1 - 20)

Strong convergence and stability in the fixed point problems with total asymptotically nonexpansive approximations of operators,
Ya. I. Alber and Ram U. Verma (21 - 53)

An extension of fixed point theorem of Sehgal in b-metric spaces,
Zoran D. Mitrovic (54 - 61)

An existence and approximation theorem for solutions of degenerate nonlinear elliptic equations in weighted Sobolev spaces,
Albo Carlos Cavalheiro (62 - 79)

Equilibrium problems with generalized relaxed $(\eta - \alpha)$-pseudomonotone and strictly $\eta$-quasimonotone mappings in Banach spaces,
B. K. Sahu and S. Pani (80 - 91)

Second order functional evolution equations with infinite delay in Fréchet spaces,
S. Abbas, M. Benchohra and F. Mesri (1 - 12)

On solving methods for elliptic optimal problems with equilibrium constraints,
T. F. Li and H. Y. Lan (13 - 26)

Suzuki-type fixed point results in S-metric type spaces,

Stacking Leggett-Williams conditions in the layered compression – expansion fixed point theorem,
R. I. Avery, D. R. Anderson and J. Henderson (37 – 51)

On the generalized B i- f -harmonic map equations on singly warped product manifolds,
H. Mazouzi, H. El – Hendi and L. Belarbi (52 – 76)

Higher order parameter-free optimality models for discrete minmax fractional programming,
R. U. Verma (77 – 101)

The existence and uniqueness of solutions for a system of stochastic differential equations with non-Lipschitz coefficients,
D. X. Xu, Zhungou, Qiang Liu and S. - Q. Shan (1 – 12)

Partial fractional differential equations with not instantaneous Impulses and random effects,
S. Abbas, Amiria Arara and M. Benchohra (13 - 26)

Coincidence points for a pair of single - valued and multi – valued F - contractions in G- metric spaces,
Z. Liu, M. He, H. Wang and S. M. Kang (27 - 51)

noindent
Impulsive fractional differential inclusions involving the Liouville - Caputo - Hadamard fractional derivative,
F. BELHANNACHE, S. HAMANI AND J. HENDERSON (52 - 67)

Sufficient optimality conditions and duality for mathematical programming problems with equilibrium constraints,
B. B. UPADHYAY AND R. N. MOHAPATRA (68 - 84)

Local convergence of an Ulm-like method under $t$-type and restricted convergence domain conditions,
I. K. ARGYROS AND S. GEORGE (85 - 97)

Growth of polynomials whose zeros are outside the unit circle,
B. A. ZARGAR AND A. W. MANZOOR (98 – 105)

Volume 26 Number 1 January 2019

CONTENTS

Convergence analysis for minimization problem and fixed point problem in p-uniformly convex metric spaces,
* G. C. Ugwunnadi, C. Izuchukwu and O. T. Mewomo (1 - 18)

Sharp vector variational inequalities and nonsmooth vector optimization problems,
* Pooja Gupta and S. K. Mishra (19 - 30)

Two common fixed point theorems in 2-metric spaces and their applications to functional equations,
* Z. Liu, L. Lu, Lei Meng and Chahn Y. Jung (31 - 75)

On multiobjective optimization problems involving V-r-invexity,
* Vivek Laha and Harsh Narayan Singh (76 - 85)

Ball convergence for a derivative free method with memory for solving nonlinear equations,
* I. K. Argyros, R. Behl, Daniel Gonzalez and S. S. Motsa (86 - 100)

Volume 26 Number 2 April 2019

CONTENTS

Existence of solutions for a class of singular fractional boundary value problems,
* N. Daoudi-Merzagu and A. Boucherif (1 - 16)

Initial value problems for impulsive Caputo-Hadamard fractional differential inclusions,
* A. Hammou, S. Hamani and J. Henderson (17 - 35)

Stochastic differential equations with biased space - averaging operators,
* Z. Gou, Y. -J. Zhang, D. -X. Xu and S. -Q. Shan (36 - 49)

Common fixed point theorems for a pair of mappings satisfying contractive conditions of integral type,
* Z. Liu, Lei Meng, X. Zhang and B. C. Kim (50 - 77)
Finite-time stability of nonlinear singular switched discrete - time systems with time - varying delay,
* Nguyen H. Muoi (78 - 90)

Extended semi - local convergence of Newton's method on Lie groups using restricted regions,
* Ioannis K. Argyros and S. George (91 - 102)