

Yurilev Chalco Cano

Portal del Investigador



1.- Información Personal

Primer Nombre Yurilev
Segundo Nombre
Apellido Paterno Chalco
Apellido Materno Cano
Fecha de nacimiento 01/08/1975
Género Hombre
País Peru
RUT 21645591-6
Pasaporte 5310273

2.- Educación

Título/Grado académico PhD
Especialidad Doutor em Matemática
Institución UNIVERSIDADE ESTADUAL DE CAMPINAS
Año de obtención 2004
País Brasil

Título/Grado académico Master
Especialidad Mestrado em Matemática
Institución UNIVERSIDADE ESTADUAL DE CAMPINAS
Año de obtención 2000
País Brasil

Título/Grado académico Professional Title
Título Profesional Licenciado en Matemática
Institución Universidad Nacional San Luis Gonzaga de Ica
Año de obtención 1999

País Peru

3.- Experiencia Académica

Institución UNIVERSIDAD DE TARAPACA
Facultad FACULTAD DE CIENCIAS
Escuela
Departamento DEPARTAMENTO DE MATEMATICA
Posición/Cargo ACADEMICO
Tipo de contrato Full Time
Horas semanales 44.0
Año de inicio 2004
Año de Término A la fecha
País Chile
Ciudad ARICA

4.- Líneas de Investigación**Líneas de Investigación**

Fuzzy mathematical analysis, Set-valued analysis, Interval-valued analysis, Optimization.

5.- Información Profesional

Institución Universidad de Tarapacá
Departamento DEPARTAMENTO DE MATEMÁTICA
Unidad
Otro
Cargo Académico / Profesor Titular
Dirección Av. 18 de Septiembre 2222
País Chile
Región/Comuna Región de Arica y Parinacota, ARICA
Ciudad Arica
Código Postal 1000000
Teléfono 582205822

6.- Experiencia Profesional

Institución	Universidad de Tarapacá
Cargo	Académico
Año de Inicio	2004
Año de Término	A la fecha
País	Chile
Ciudad	Arica
Jornada	Full Time
Horas semanales	44.0

Información Adicional

Formación de Capital H...

Difusión y Transferencia

Premios y Distinciones

Productividad

Article

New optimality conditions for multiobjective fuzzy programming problems

IRANIAN JOURNAL OF FUZZY SYSTEMS (1735-0654)

Osuna-Gómez, R.; Hernández-Jiménez, B.; Chalco-Cano, Y.; Ruiz-Garzón, G.

Year: 2020

Volume: 17

Start Page: 19

End Page: 31

WOS/SCOPUS

Article

Ostrowski-type inequalities for fuzzy-valued functions and its applications in quadrature theory

Information Sciences (00200255)

Costa, T.M.; Flores-Franulic, A.; Chalco-Cano, Y.; Aguirre-Cipe, I.

Year: 2020

Volume: 529

Start Page: 101

End Page: 115

WOS/SCOPUS

Article

Optimality conditions for fuzzy constrained programming problems

ISI SCOPUS

FUZZY SETS AND SYSTEMS (0165-0114)

Osuna-Gomez, R; Chalco-Cano, Y; Hernandez-Jimenez, B; Aguirre-Cipe, I

Year: 2019

Volume: 362

Start Page: 35

End Page: 54

Article

The continuous-time problem with interval-valued functions: applications to economic equilibrium

ISI

OPTIMIZATION METHODS & SOFTWARE (1055-6788)

Ruiz-Garzon, G; Osuna-Gomez, R; Rufian-Lizana, A; Chalco-Cano, Y

Year: 2019

Volume: 34

Issue: 6

Start Page: 1123

End Page: 1144

Article

Algebra of generalized Hukuhara differentiable interval-valued functions: review and new properties

ISI SCOPUS

FUZZY SETS AND SYSTEMS (0165-0114)

Chalco-Cano Y.; Maqui-Huamán G.G.; Silva G.N.; Jiménez-Gamero M.D.

Year: 2019

Volume: 375

Start Page: 53

End Page: 69

Article

Gauss-type integral inequalities for interval and fuzzy-interval-valued functions

ISI SCOPUS

COMPUTATIONAL APPLIED MATHEMATICS (2238-3603)

Costa, TM; SILVA GN; Chalco-Cano, Y; Roman-Flores, H

Year: 2019

Volume: 38

Issue: 2

Article

Opial-type inequalities for interval-valued functions

ISI SCOPUS

FUZZY SETS AND SYSTEMS (0165-0114)

Costa, TM; Roman-Flores, H; Chalco-Cano, Y

Year: 2019

Volume: 358

Start Page: 48

End Page: 63

Article

A new approach to linear interval differential equations as a first step toward solving fuzzy differential

ISI SCOPUS

FUZZY SETS AND SYSTEMS (0165-0114)

da Costa, TM; Chalco-Cano, Y; Lodwick, WA; SILVA GN

Year: 2018

Volume: 347

Start Page: 129

End Page: 141

Journal Article

The continuous-time problem with interval-valued functions=> applications to economic equilibrium

Optimization Methods and Software (1055-6788)

Ruiz-Garzón, G.; Osuna-Gómez, R.; Rufián-Lizana, A.; Chalco-Cano, Y.

Year: 2018

Start Page: 1

End Page: 22

Article

Yager Index and Ranking for Interval Type-2 Fuzzy Numbers

ISI SCOPUS

IEEE TRANSACTIONS ON FUZZY SYSTEMS (1063-6706)

Figuroa-Garcia, JC; Chalco-Cano, Y; Roman-Flores, H

Year: 2018

Volume: 26

Issue: 5

Start Page: 2709

End Page: 2718

Article

Some integral inequalities for interval-valued functions

ISI SCOPUS

COMPUTATIONAL & APPLIED MATHEMATICS (0101-8205)

Roman-Flores, H; Chalco-Cano, Y; Lodwick, WA

Year: 2018

Volume: 37

Issue: 2

Start Page: 1306

End Page: 1318

ConferencePaper

Order relations, convexities, and Jensen's integral inequalities in interval and fuzzy spaces

ISI SCOPUS

()

da Costa T.M.; Chalco-Cano Y.; de Barros L.C.; Silva G.N.

Year: 2018

Volume: 831

Start Page: 450

End Page: 463

Article

A Note on Generalized Convexity for Fuzzy Mappings Through a Linear Ordering

ISI SCOPUS

()

Rufián-Lizana A.; Chalco-Cano Y.; Ruiz-Garzón G.; Jiménez-Gamero M.D.

Year: 2018

Volume: 142

Start Page: 721

End Page: 731

Article

Different optimum notions for fuzzy functions and optimality conditions associated

ISI

FUZZY OPTIMIZATION AND DECISION MAKING (1568-4539)

Osuna-Gomez, R; Hernandez-Jimenez, B; Chalco-Cano, Y; Ruiz-Garzon, G

Year: 2018

Volume: 17

Issue: 2

Start Page: 177

End Page: 193

Journal Article

New efficiency conditions for multiobjective interval-valued programming problems

INFORMATION SCIENCES (0020-0255)

Osuna-Gómez, R.; Hernández-Jiménez, B.; Chalco-Cano, Y.; Ruiz-Garzón, G.

Year: 2017

Start Page: 235

End Page: 248

Journal Article

Some Remarks on Optimality Conditions for Fuzzy Optimization Problems

Revista de Investigación Operacional ()

Rufián-Lizana, A.; Osuna-Gómez, R.; Chalco-Cano, Y.; Román Flores, H.

Year: 2017

Start Page: 189

End Page: 194

Journal Article

The Karush–Kuhn–Tucker optimality conditions for fuzzy optimization problems

Fuzzy Optimization and Decision Making (1568-4539)

Chalco-Cano, Y.; Lodwick W.A., Osuna-Gómez; R., Rufián-Lizana

Year: 2016

Start Page: 57

End Page: 73

Journal Article

Testing for the symmetric component in skew distributions

Mathematical Methods in the Applied Sciences (0170-4214)

Jiménez-Gamero, M.D.; Alba-Fernández, M.D.; Jodrá, P.; Chalco-Cano, Y.

Year: 2016

Start Page: 4713

End Page: 4722

Journal Article

Characterizations of generalized differentiable fuzzy functions

FUZZY SETS AND SYSTEMS (0165-0114)

Chalco-Cano, Y; Rodriguez-Lopez, R; Jimenez-Gamero, MD

Year: 2016

Start Page: 37

End Page: 56

Journal Article

Necessary and sufficient conditions for fuzzy optimality problems

FUZZY SETS AND SYSTEMS (0165-0114)

Osuna-Gomez, R; Chalco-Cano, Y; Rufian-Lizana, A; Hernandez-Jimenez, B

Year: 2016

Start Page: 112

End Page: 123

Journal Article

Optimality conditions for generalized differentiable interval-valued functions

INFORMATION SCIENCES (0020-0255)

Osuna-Gómez, R.; Chalco-Cano, Y.; Hernández-Jiméne, B.; Ruiz-Garzón, G.

Year: 2015

Start Page: 136

End Page: 146

Journal Article

Existence of solutions to fuzzy differential equations with generalized Hukuhara derivative via contractive-like mapping principles

FUZZY SETS AND SYSTEMS (0165-0114)

Villamizar-Roa, Elder J.; Angulo-Castillo, Vladimir

Year: 2015

Start Page: 24

End Page: 38

Journal Article

Generalized convexity in fuzzy vector optimization through a linear ordering

Information Sciences ()

Arana-Jiménez, M.; Rufián-Lizana, M.; Chalco-Cano, Y.

Year: 2015

Start Page: 13

End Page: 24

Journal Article

Distance measures for Interval Type-2 fuzzy numbers

DISCRETE APPLIED MATHEMATICS (0166-218X)

Figueroa-Garcia, JC; Chalco-Cano, Y

Year: 2015

Start Page: 93

End Page: 102

Journal Article

On the Newton method for solving fuzzy optimization problems

FUZZY SETS AND SYSTEMS (0165-0114)

Chalco-Cano, Y.; Silva, G.N.; Rufián-Lizana, A.

Year: 2015

Start Page: 60

End Page: 69

Proyecto

NEW CONTRIBUTIONS TO FUZZY SET-VALUED ANALYSIS=> FUZZY INTEGRALS, MULTIVALUED DYNAMICS AND FUZZY SYSTEMS

FONDECYT

1151159

Year(s): 2015-2018

Role: Coinvestigador(a)

Proyecto

FUZZY AND INTERVAL MATHEMATICAL ANALYSIS AND APPLICATIONS IN FUZZY AND INTERVAL OPTIMIZATION PROBLEMS, FUZZY AND INTERVAL DIFFERENTIAL EQUATIONS AND FUZZY STATISTIC.

FONDECYT

1151154

Year(s): 2015-2019

Role: Inv. Responsable

Journal Article

Description of the Attainable Sets of One-Dimensional Differential Inclusions

JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS (0022-3239)

Chalco-Cano, Y.; de Oliveira, V.A. ; Silva, Geraldo

Year: 2015

Start Page: 138

End Page: 153

[Journal Article](#)**Generalized convexity in fuzzy vector optimization through a linear ordering**

INFORMATION SCIENCES (0020-0255)

Arana-Jiménez, M.; Rufián-Lizana, A.; Chalco-Cano, Y.; Román-Flores, H.

Year: 2015

Start Page: 13

End Page: 24

[Journal Article](#)**Ostrowski type inequalities and applications in numerical integration for interval-valued functions**

SOFT COMPUTING (1432-7643)

Chalco-Cano, Y; Lodwick, WA; Condori-Equice, W

Year: 2015

Start Page: 3293

End Page: 3300

[Journal Article](#)**Generalized interval vector spaces and interval optimization**

INFORMATION SCIENCES (0020-0255)

Costa, T.M.; Chalco-Cano, Y.; Lodwick, W.A.

Year: 2015

Start Page: 74

End Page: 85

[Journal Article](#)**Single level constraint interval arithmetic**

FUZZY SETS AND SYSTEMS (0165-0114)

Chalco-Cano, Y.; Lodwick, WA.; Bede, B.

Year: 2014

Start Page: 146

End Page: 168

[Journal Article](#)**On some characterizations of preinvex fuzzy mappings**

Top (1134-5764)

Rufián-Lizana, A.; Chalco-Cano, Y.; Ruiz-Garzón, G.; Román-Flores, H.

Year: 2014

Start Page: 771

End Page: 783

[Journal Article](#)**A two-dimensional Hardy type inequality for fuzzy integrals**

International Journal, Uncertainty, Fuzziness and Knowledge-Based Systems ()

Román-Flores, H.; Flores-Franulic, A.; Chalco-Cano, Y.; Ralescu, Dan

Year: 2013

Start Page: 165

End Page: 173

Journal Article

Optimality conditions of type KKT for optimization problem with interval-valued objective function via generalized derivative

Fuzzy Optimization and Decision Making (1568-4539)

Chalco-Cano, Y.; Lodwick, W.A.; Rufián-Lizana, A.

Year: 2013

Start Page: 305

End Page: 322

Journal Article

Solution set for fractional differential equations with Riemann-Liouville derivative

Fractional Calculus and Applied Analysis ()

Chalco-Cano, Y.; Nieto, J.; OUAhab, A.; Román-Flores, H.

Year: 2013

Start Page: 682

End Page: 694

Journal Article

Calculus for interval-valued functions using generalized Hukuhara derivative and applications

FUZZY SETS AND SYSTEMS (0165-0114)

Chalco-Cano, Y.; Rufián-Lizana, A.; Román-Flores, H.; Jimenez-Gamero, M.

Year: 2013

Start Page: 49

End Page: 67

Journal Article

Some remarks on fuzzy differential equations via differential inclusions

FUZZY SETS AND SYSTEMS (0165-0114)

Chalco-Cano, Y.; Román-Flores, H.

Year: 2013

Start Page: 3

End Page: 20

Journal Article

A note on generalized convexity for fuzzy mappings through a linear ordering

FUZZY SETS AND SYSTEMS (0165-0114)

Chalco-Cano, Y.; Rufián-Lizana, A.; Román-Flores, H.; Osuna-Gomez, R.

Year: 2013

Start Page: 70

End Page: 83

Journal Article

On invex fuzzy mappings and fuzzy variational-like inequalities

FUZZY SETS AND SYSTEMS (0165-0114)

Rufián-Lizana, A.; Chalco-Cano, Y.; Osuna-Gomez, R.; Ruiz-Garzón, G.

Year: 2012

Start Page: 84

End Page: 98

Proyecto

FUZZY MATHEMATICAL ANALYSIS AND APPLICATIONS

FONDECYT

1120665

Year(s): 2012-2015

Role: Inv. Responsable

Proyecto

CONTRIBUTIONS TO FUZZY SET-VALUED ANALYSIS=> FUZZY INTEGRALS AND FUZZY SYSTEMS

FONDECYT

1120674

Year(s): 2012-2015

Role: Coinvestigador(a)

Journal Article

Ostrowski type inequalities for interval-valued functions using generalized Hukuhara derivative

Computational & Applied Mathematics ()

Chalco-Cano, Y.; Flores-Franulic, A.; Román-Flores, H.

Year: 2012

Start Page: 457

End Page: 472

Journal Article

On the approximation of compact fuzzy sets

Computers & Mathematics with Applications ()

Chalco-Cano, Y.; Baez-Sanchez, A.; Román-Flores, H.; Rojas-Medar, M.

Year: 2011

Start Page: 412

End Page: 420

Journal Article

Generalized derivative and pi-derivative for set-valued functions

Information Sciences ()

Chalco-Cano, Y.; Román-Flores, H.; Jimenez-Gamero, M.

Year: 2011

Start Page: 2177

End Page: 2188

[Journal Article](#)**On turbulent, erratic and other dynamical properties of Zadeh's extensions**

Chaos, Solitons & Fractals ()

Román-Flores, H.; Chalco-Cano, Y.; , Silva; G.N., Kupka

Year: 2011

Start Page: 990

End Page: 994

[Journal Article](#)**Spline approximation for Zadeh's extensions**

International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems ()

Chalco-Cano, Y.; Misukoshi, M.; Román-Flores, H.; Flores-Franulic, A.

Year: 2009

Start Page: 269

End Page: 280

[Journal Article](#)**Comparison between some approaches to solve fuzzy differential equations**

Fuzzy Sets and Systems ()

Chalco-Cano, Y.; Román-Flores, H.

Year: 2009

Start Page: 1517

End Page: 1527

[Journal Article](#)**Markov type inequalities for fuzzy integrals**

Applied Mathematics and Computation ()

Flores-Franulic, A.; Román-Flores, H.; Chalco-Cano, Y.

Year: 2009

Start Page: 242

End Page: 247

[Journal Article](#)**Goodness-of-fit test based on empirical characteristic functions**

Computational Statistics & Data Analysis ()

Jime3nez-Gamero, M.; Alba-Fernández, V.; Muñoz-Garcia, J.; Chalco-Cano, Y.

Year: 2009

Start Page: 3957

End Page: 3971

[Journal Article](#)**Some chaotic properties of Zadeh's extensions**

Chaos, Solitons & Fractals ()

Román-Flores, H.; Chalco-Cano, Y.

Year: 2008
 Start Page: 452
 End Page: 459

Journal Article

An approximation to the extensión principle using decomposition of fuzzy intervals

Fuzzy Sets and Systems ()

Chalco-Cano, Y.; Jimenez-Gamero, M.; Román-Flores, H.; Rojas-Medar, M.

Year: 2008

Start Page: 3245

End Page: 3258

Journal Article

A Hardy-type inequality for fuzzy integrals

Applied Mathematics and Computation ()

Román-Flores, H.; Flores-Franulic, A.; Chalco-Cano, Y.

Year: 2008

Start Page: 178

End Page: 183

Journal Article

A convolution type inequality for fuzzy integrals

Applied Mathematics and Computation ()

Román-Flores, H.; Flores-Franulic, A.; Chalco-Cano, Y.

Year: 2008

Start Page: 94

End Page: 99

Proyecto

NEW DEVELOPMENTS IN FUZZY SET-VALUED ANALYSIS=> FUZZY INTEGRALS AND FUZZY SYSTEMS

FONDECYT

1080438

Year(s): 2008-2011

Role: Coinvestigador(a)

Journal Article

On new solutions of fuzzy differential equations

Chaos, Solitons & Fractals ()

Chalco-Cano, Y.; Román-Flores, H.

Year: 2008

Start Page: 112

End Page: 119

Journal Article

A new type of approximation for fuzzy intervals

Fuzzy Sets and Systems ()

Chalco-Cano, Y.; Román-Flores, H.; Gomide, Fernando

Year: 2008

Start Page: 1376

End Page: 1383

Journal Article

A note on fuzzy integral inequality of Stolarsky type

Applied Mathematics and Computation ()

Flores-Franulic, A.; Román-Flores, H.; Chalco-Cano, Y.

Year: 2008

Start Page: 55

End Page: 59

Journal Article

A Jensen type inequality for fuzzy integrals

Information Sciences ()

Román-Flores, H.; Flores-Franulic, A.; Chalco-Cano

Year: 2007

Start Page: 3192

End Page: 3201

Journal Article

The fuzzy integral for monotone functions

Applied Mathematics and Computation ()

Román-Flores, H.; Flores-Franulic, A.; Chalco-Cano, Y.

Year: 2007

Start Page: 492

End Page: 498

Journal Article

Sugeno integral and geometric inequalities

International Journal Uncertainty, Fuzziness and Knowledge-Based Systems ()

Román-Flores, H.; Chalco-Cano, Y.

Year: 2007

Start Page: 1

End Page: 11

Journal Article

Fuzzy differential equations and the extensión principle

Information Sciences ()

Mizukoshi, M.; Barros, L.; Chalco-Cano, Y.; Román-Flores, H.; Bassanezi, R.

Year: 2007

Start Page: 3627

End Page: 3635

Journal Article

Solution of non-linear fuzzy systems by decomposition of incremental fuzzy numbers

Information Sciences ()

Saavedra, O.; Manguera, H.; Chalco-Cano, Y.; Román-Flores, H.

Year: 2007

Start Page: 4462

End Page: 4473

Journal Article

The extensión principle and a decomposition of fuzzy sets

Information Sciences ()

Chalco-Cano, Y.; Román-Flores, H.; Rojas-Medar, M.; Saavedra, O.; Jimenez-Gamero, M.

Year: 2007

Start Page: 5394

End Page: 5403

Proyecto

FUZZY MATHEMATICAL AND APPLICATIONS

FONDECYT

7070312

Year(s): 2007-2008

Role: Inv. Responsable

Journal Article

H-continuity of fuzzy measures and set defuzzification

Fuzzy Sets and Systems ()

Román-Flores, H.; Chalco-Cano, Y.

Year: 2006

Start Page: 230

End Page: 242

Proyecto

FUZZY MATHEMATICAL AND APPLICATIONS

FONDECYT

7060272

Year(s): 2006-2007

Role: Inv. Responsable

Proyecto

FUZZY MATHEMATICAL AND APPLICATIONS

FONDECYT

1061244

Year(s): 2006-2009

Role: Inv. Responsable

Journal Article

Fuzzy quasilinear spaces and applications

FUZZY SETS AND SYSTEMS (0165-0114)

Rojas-Medar, M.A.; Jiménez-Gamero, M.D.; Chalco-Cano, Y.; Viera-Brandão, A.J.

Year: 2005

Start Page: 173

End Page: 190

Journal Article

Robinson's chaos in set-valued discrete systems

Chaos, Solitons & Fractals ()

Román-Flores, H.; Chalco-Cano, Y.

Year: 2005

Start Page: 33

End Page: 42

Journal Article

s-convex fuzzy processes

COMPUTERS & MATHEMATICS WITH APPLICATIONS (0898-1221)

Chalco-Cano, Y.; Rojas-Medar, M.A.; Osuna-Gómez, R.

Year: 2004

Start Page: 1411

End Page: 1418

Journal Article

Convolutiopn of fuzzy sets and applications

COMPUTERS & MATHEMATICS WITH APPLICATIONS (0898-1221)

Román-Flores, H.; Chalco-Cano, Y.; Rojas-M, edar

Year: 2003

Start Page: 1245

End Page: 1251

Journal Article

M-convex fuzzy mappings and fuzzy integral mean

COMPUTERS & MATHEMATICS WITH APPLICATIONS (0898-1221)

Chalco-Cano, Y.; Rojas-Medar, M.; Román-Flores, H.

Year: 2000

Start Page: 1117

End Page: 1126