Publications:

**Type-2 fuzzy elliptic membership functions for modeling uncertainty**  
Publication: Research - peer-review › Journal article – Annual report year: 2018

**Novel Levenberg–Marquardt based learning algorithm for unmanned aerial vehicles**  
Publication: Research - peer-review › Journal article – Annual report year: 2017

**Modeling level change in Lake Urmia using hybrid artificial intelligence approaches**  
Publication: Research - peer-review › Journal article – Annual report year: 2017

**Model of car wing active control in order to increase stability of the car on corners of roads**  
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

**Sliding mode fuzzy rule base bilateral teleoperation control of 2-DOF SCARA system**  
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

**A multi-objective genetic type-2 fuzzy extreme learning system for the identification of nonlinear dynamic systems**  
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

**Comparative analysis of three approaches of antecedent part generation for an IT2 TSK FLS**  
Publication: Research - peer-review › Journal article – Annual report year: 2017

**Multi objective optimal allocation of fault current limiters in power system**  
Publication: Research - peer-review › Journal article – Annual report year: 2017

**An Aerial Robot for Rice Farm Quality Inspection With Type-2 Fuzzy Neural Networks Tuned by Particle Swarm Optimization-Sliding Mode Control Hybrid Algorithm**  
Publication: Research - peer-review › Journal article – Annual report year: 2018

**Learning Control of Fixed-Wing Unmanned Aerial Vehicles Using Fuzzy Neural Networks**  
Publication: Research - peer-review › Journal article – Annual report year: 2017

**Artificial bee colony optimization of interval type-2 fuzzy extreme learning system for chaotic data**  
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

**A systematic design of interval type-2 fuzzy logic system using extreme learning machine for electricity load demand forecasting**  
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**COOA: Competitive optimization algorithm**  
Publication: Research - peer-review › Journal article – Annual report year: 2016

**Adaptive direct fuzzy control of SISO nonlinear systems using a fuzzy reference model**  
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

**Optimal parameters of an ELM-based interval type 2 fuzzy logic system: a hybrid learning algorithm**  
Publication: Research - peer-review › Journal article – Annual report year: 2016
Optimal design of adaptive type-2 neuro-fuzzy systems: A review
Publication: Research - peer-review › Review – Annual report year: 2016

Direct Model Reference Adaptive Fuzzy Control of Networked SISO Nonlinear Systems
Publication: Research - peer-review › Journal article – Annual report year: 2016

A Novel Direct Model Reference Fuzzy Control Approach Based on Observer and Its Applications
Publication: Research - peer-review › Journal article – Annual report year: 2016

Recurrent Interval Type-2 Fuzzy Control of 2-DOF Helicopter With Finite Time Training Algorithm
Publication: Research - peer-review › Journal article – Annual report year: 2016

Adaptive sliding-mode type-2 neuro-fuzzy control of an induction motor
Publication: Research - peer-review › Journal article – Annual report year: 2015

Feedback Error Learning Control of Magnetic Satellites Using Type-2 Fuzzy Neural Networks With Elliptic Membership Functions
Publication: Research - peer-review › Journal article – Annual report year: 2015

Adaptive indirect fuzzy sliding mode controller for networked control systems subject to time-varying network-induced time delay
Publication: Research - peer-review › Journal article – Annual report year: 2015

Controlling the pitch and yaw angles of a 2-DOF helicopter using interval type-2 fuzzy neural networks
Publication: Research - peer-review › Book chapter – Annual report year: 2015

Fuzzy Neural Networks for Real Time Control Applications: Concepts, Modeling and Algorithms for Fast Learning
Publication: Research - peer-review › Book – Annual report year: 2015

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Observer-based indirect model reference fuzzy control system with application to control of chaotic systems
Publication: Research - peer-review › Journal article – Annual report year: 2013

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Hierarchical Fuzzy identification using gradient descent and recursive least square method
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Sliding mode type-2 fuzzy control of robotic arm using ellipsoidal membership functions
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Extended kalman filter based learning algorithm for type-2 fuzzy logic systems and its experimental evaluation
Publication: Research - peer-review › Journal article – Annual report year: 2012

Control and synchronization of chaotic systems using a novel indirect model reference fuzzy controller
Publication: Research - peer-review › Journal article – Annual report year: 2012
Statistical results to show the superiority of type two fuzzy logic systems over type one counterparts under noisy conditions
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Training fuzzy neural networks using sliding mode theory with adaptive learning rate
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Analysis of the noise reduction property of type-2 fuzzy logic systems using a novel type-2 membership function
Publication: Research - peer-review › Journal article – Annual report year: 2011

Direct model reference Takagi-Sugeno fuzzy control of SISO nonlinear systems
Publication: Research - peer-review › Journal article – Annual report year: 2011

An online training algorithm based on the fusion of sliding mode control theory and fuzzy neural networks with triangular membership functions
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

A novel training method based on variable structure systems theory for fuzzy neural networks
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Model reference fuzzy control of nonlinear dynamical systems using an optimal observer
Publication: Research - peer-review › Journal article – Annual report year: 2011

A novel type-2 fuzzy membership function: Application to the prediction of noisy data
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Identification of interval fuzzy models using recursive least square method
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Subspace identification of dynamical neurofuzzy system using LOLIMOT
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Identification using ANFIS with intelligent hybrid stable learning algorithm approaches and stability analysis of training methods
Publication: Research - peer-review › Journal article – Annual report year: 2009

Incremental locally linear fuzzy classifier
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Direct stable adaptive fuzzy neural model reference control of a class of nonlinear systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

A novel binary particle swarm optimization
Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

Fuzzy sliding mode control of rotary inverted pendulum
Publication: Research - peer-review › Article in proceedings – Annual report year: 2007
Hybrid training of recurrent fuzzy neural network model
Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

Sliding mode control of rotary inverted pendulum
Publication: Research - peer-review › Article in proceedings – Annual report year: 2007