2018

Enhanced and Speedy Energy Extraction from a scaled-up Pressure Retarded Osmosis process with a Whale Optimization based Maximum Power Point Tracking.

2017

Development of a two-stage gene selection method that incorporates a novel hybrid approach using the cuckoo optimization algorithm and harmony search for cancer classification.

2016

Evaluation of the detrimental effects in osmotic power assisted reverse osmosis (RO) desalination.

Dynamic battery cell model and state of charge estimation.

Maximum power point tracking (MPPT) control of pressure retarded osmosis (PRO) salinity power plant: Development and comparison of different techniques.

An evaluation of membrane properties and process characteristics of a scaled-up pressure retarded osmosis (PRO) process.

Optimum Power Output Control of a Wind Turbine Rotor.

2015

Maximum power point tracking (MPPT) of a scale-up pressure retarded osmosis (PRO) osmotic power plant.

Cancer classification using a novel gene selection approach by means of shuffling based on data clustering with optimization.

Flying by the Sun only: The Solarcopter prototype.

Enhanced energy generation and membrane performance by two-stage pressure retarded osmosis (PRO).
2014

Modelling of osmotic energy from natural salt gradients due to pressure retarded osmosis: Effects of detrimental factors and flow schemes.

Thermodynamic analysis of a stand-alone reverse osmosis desalination system powered by pressure retarded osmosis.

Stand-alone seawater RO (reverse osmosis) desalination powered by PV (photovoltaic) and PRO (pressure retarded osmosis).

Energy and thermodynamic analysis of power generation using a natural salinity gradient based pressure retarded osmosis process.

2013

Modelling and control of the barrett hand for grasping.

Grand challenges in magnetic capsule endoscopy.

2012

Real time adaptive nonlinear model inversion control of a twin rotor MIMO system using neural networks.
Rahideh A, Bajodah AH and Shaheed MH. *Engineering Applications of Artificial Intelligence* vol. 25, (6) 1289-1297.

Adaptive closed-loop control of a single-link flexible manipulator.

Constrained output feedback model predictive control for nonlinear systems.
Rahideh A and Shaheed MH. *Control Engineering Practice* vol. 20, (4) 431-443.

2011

Stable model predictive control for a nonlinear system.

Grey-box modelling of a non-linear aerodynamic system using genetic algorithms.

2010

Real time nonlinear model predictive control for fast systems.

2008

Neural network-based modelling of a two-degrees-of-freedom twin rotor multiple input, multiple output system using conjugate gradient learning algorithms.

Dynamic modelling of a TRMS using analytical and empirical approaches.
Rahideh A, Shaheed MH and Huijberts HJC. *Control Engineering Practice* vol. 16, (3) 241-259.
Open-loop control of flexible manipulators using command - generation techniques.
AZAD AKM, SHAHEED M, MOHAMED Z, TOKHI MO and POERWANTO H. Flexible Manipulators: Modelling, Simulation and Control. Iet.

Parametric and non-parametric modelling of flexible manipulators.
SHAHEED MH and TOKHI MO. Flexible Robot Manipulators: Modelling, Simulation and Control. Editors: TOKHI MO and Azad AKM. The Institution of Engineering and Technology.

SCEFMAS-An environment for simulation and control of flexible manipulators systems.
SHAHEED M, TOKHI M, AZAD A and POERWANTO H. Flexible Manipulators: Modelling, Simulation and Control. The Institution of Engineering and Technology.

Collocated and non-collocated control of flexible manipulators.

2007

A software environment for intelligent modeling and simulation of flexible manipulator systems.

Adaptive non-linear model inversion control of a twin rotor multi-input multi-output system using artificial intelligence.
Rahideh A, Shaheed HM and Bajodah AH. P I Mech Eng G-J Aer vol. 221, (G3) 343-351.

Mathematical dynamic modelling of a twin-rotor multiple input-multiple output system.

Adaptive nonlinear model inversion control of a twin rotor system using artificial intelligence.

Adaptive Nonlinear model inversion control of a twin rotor system using artificial intelligence.

Adaptive Nonlinear Model Inversion Control of a TRMS Using Artificial Intelligence.

2006


2005

Adaptive inverse-dynamic and neuro-inverse-dynamic active vibration control of a single-link flexible manipulator.

Feedforward neural network based non-linear dynamic modelling of a TRMS using RPROP algorithm.
Shaheed MH. Aircr Eng Aerosp Tec vol. 77, (1) 13-22.

2004

Feed forward Neural Network Based Nonlinear Dynamic Modelling of a TRMS using RPROP Algorithm.
SHAHEED MH. Aircraft Engineering and Aerospace Technology.

2003

Parallel Computing for Real-time Signal Processing and Control.
Tokhi MO, Hossaian MA and SHAHEED MH. Springer.
2002


Dynamic modelling of a single-link flexible manipulator: parametric and non-parametric approaches.
Shaheed MH and Tokhi MO. Robotica vol. 20, 93-109.

2001

Dynamic characterisation of a flexible manipulator system.
Tokhi MO, Mohamed Z and Shaheed MH. Robotica vol. 19, 571-580.

Modelling and open-loop control of a single-link flexible manipulator with neural networks.
Shaheed MH and Tokhi MO. J Low Freq Noise V A vol. 20, (2) 105-131.

Modelling and Open-Loop Control of a Single-Link Flexible Manipulator with Genetic Algorithms.

2000

Dynamic modelling of a flexible manipulator system incorporating payload: Theory and experiments.

Nonlinear modelling of a twin rotor mimo system using radial basis function networks.

1999

Finite element simulation of a flexible manipulator part 1: Sequential processing techniques.

Finite element simulation of a flexible manipulator - Part 2: Parallel processing techniques.