Reihaneh Kardehi Moghaddam, Ph.D.

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OVERVIEW

Dr. Reihaneh Kardehi Moghaddam is an associate professor of Azad University electrical and computer engineering department. Her favourite field of research is optimization of extracted power from renewable energy sources, nonlinear fractional order sliding mode controllers and intelligent optimization methods. So far, she has supervised 4 doctoral dissertations and more than 45 master's dissertations in the mentioned research fields. She is the Author of more than 70 articles which have been cited more than 100 times so far.

Evidence of special talents

- Top researcher of engineering faculty (Mashhad Azad University-2013)
- Top researcher of engineering faculty (Mashhad Azad University-2016)
- Top student among graduated MSc. control engineering students (Ferdowsi University-2001)
- Achieving the national rank of 281(national university entrance exam, mathematics and physics field-1997)
- Graduated from Iran's elite students high school (1997)

Education and Qualifications

PhD in Control Engineering (2005- 2010) Ferdowsi University, Mashhad, Iran

Thesis Title: Estimation and directional extention of attraction

domain using Markove models

Supervisor: Professor Hassan Modir Shanechi;

Professor Naser Pariz

MSc in Control Engineering (2001-2004) Ferdowsi University, Mashhad, Iran

Thesis Title: optimization of tumor hyperthermia treatment

Supervisor: Professor Naser Pariz

BSc in Biomedical Enhineering(1997-2001) Amirkabir

University, Tehran, Iran

Thesis Title: Making a wireless cardiac arrhythmia diagnosis

device

Supervisor: Professor Yazdchi

Publications (sorted by year)

Citations: 90 52 journal papers, more than 20 conference papers

Journal publications

| no | Article title | Cited by | year |
|----|---|----------|---------------|
| 1 | Low power time-domain rail-to-rail comparator with a new delay element for | | |
| | ADC applications | | 2021 |
| | R Sanati, F Khatib, MJ Sarraf, RK Moghaddam | | 2021 |
| | Elsevier, Integration 77, 89-95 | | |
| 2 | <u>Disturbance observer-based fractional-order nonlinear sliding mode control for</u> | | |
| | a class of fractional-order systems with matched and mismatched disturbances | | 2020 |
| | A Razzaghian, RK Moghaddam, N Pariz | | 2020 |
| | International Journal of Dynamics and Control, 1-8 | | |
| 3 | Adaptive neural network conformable fractional-order nonsingular terminal | | |
| | sliding mode control for a class of second-order nonlinear systems | 1 | 2020 |
| | A Razzaghian, R Kardehi Moghaddam, N Pariz | <u>1</u> | 2020 |
| | IETE Journal of Research, 1-10 | | |
| 4 | An Optimal Interval Type-2 Fuzzy Logic Controller for Maximum Power Capture | | |
| | of Point Absorbers | 1 | 2020 |
| | M Jalali, RK Moghaddam | <u>1</u> | 2020 |
| | IETE Journal of Research, 1-10 | | |
| 5 | Regulating the Output Voltage of Buck-Boost Converters Using General Type2 | | |
| | Fuzzy Controller | 4 | 2020 |
| | HR Ghorbani, R Kardehi Moghaddam, SE Razavi | <u>1</u> | 2020 |
| | Signal Processing and Renewable Energy 4 (2), 37-51 | | |
| 6 | Fractional-order nonsingular terminal sliding mode control via a disturbance | | |
| | observer for a class of nonlinear systems with mismatched disturbances | 2 | 2020 |
| | A Razzaghian, R Kardehi Moghaddam, N Pariz | <u>2</u> | 2020 |
| | Journal of Vibration and Control, 1077546320925263 | | |
| 7 | A Safety-Certified Policy Iteration Algorithm for Control of Constrained | | |
| | Nonlinear Systems | | 2020 |
| | NM Yazdani, RK Moghaddam, B Kiumarsi, H Modares | | 2020 |
| | IEEE Control Systems Letters 4 (3), 686-691 | | |
| 8 | Improving firefly-based multi-objective optimization based on attraction law | | |
| | and crowding distance | | 2020 |
| | RK Moghaddam | | 2020 |
| | Statistics, Optimization & Information Computing 8 (1), 229-241 | | |
| 9 | Optimization of Kalagh Ashian's Photovoltaic Water Pump System Using a New | | |
| | Proposed Multi-objective Firefly Algorithm | | 2222 |
| | F Shayeteh, RK Moghaddam | | 2020 |
| | Journal of Control, Automation and Electrical Systems, 1-17 | | |
| 10 | A comparative analysis of artificial intelligence-based methods for fault | | |
| | diagnosis of mechanical systems | | 2010 |
| | RK Moghaddam, NM Yazdan | | 2019 |
| | Mechanics and Mechanical Engineering 23 (1), 113-124 | | |
| 11 | Competitive Learning: A New Meta-Heuristic Optimization Algorithm | | |
| | A Afroughinia, R Kardehi Moghaddam | <u>1</u> | 2018 |
| | International Journal on Artificial Intelligence Tools 27 (08), 1850035 | | - |
| 12 | Maximizing the Absorbed Power of A Point Absorber Using An FA-Based | | |
| 12 | Optimized Model Predictive Control | | |
| | N Rahimi, RK Moghaddam | <u>1</u> | 2018 |
| | China Ocean Engineering 32 (6), 696-705 | | |
| 12 | | | 2018 |
| 13 | Parameter Identification of Hyperchaotic Chen-Lee System Using Firefly | | 2018 |

| | Algorithm | | |
|----|---|-----------|-------|
| | F Shayeteh, RK Moghaddam | | |
| | Journal of Soft Computing and Applications 2018 (1), 1-12 | | |
| 14 | Power maximization of a point absorber wave energy converter using improved | | |
| 17 | model predictive control | | |
| | F Milani, RK Moghaddam | <u>2</u> | 2017 |
| | China Ocean Engineering 31 (4), 510-516 | | |
| 15 | Design of an Approximate Dynamic Programming based neural controller for | | |
| 13 | Smart Home Energy Management | | 2017 |
| | SR Dasht-e-Bayaz, RK Moghaddam, R Asgharian | | 2017 |
| 16 | Control the tumour growth via sliding mode control | | |
| 10 | AP Shahri, S Haghighatnia, RK Moghaddam, HR Kobravi | <u>1</u> | 2017 |
| | International Journal of Medical Engineering and Informatics 9 (2), 101-109 | ± | 2017 |
| 17 | Adaptive fuzzy sliding mode control for a model-scaled unmanned helicopter | | |
| 1/ | A Razzaghian, RK Moghaddam | <u>16</u> | 2016 |
| | Journal of Fuzzy Set Valued Analysis 2016 (3), 286-302 | <u>10</u> | 2010 |
| 10 | Tuning of PID controller based on Quantum Ant Colony Optimization | | |
| 18 | | | 2016 |
| 40 | A Afroughinia, A Hezarkalateh, MR KARDEHI | | |
| 19 | Synchronization in oscillator networks with time delay and limited non- | | |
| | homogeneous coupling strength | <u>8</u> | 2015 |
| | M Tousi, RK Moghaddam, N Pariz | | |
| 20 | Nonlinear Dynamics 82 (1-2), 1-8 | | |
| 20 | Control of cancer growth using two input autonomous fuzzy nanoparticles | 2 | 2015 |
| | F Razmi, RK Moghaddam, A Rowhanimanesh | <u>2</u> | 2015 |
| | Nano 10 (04), 1550062 | | |
| 21 | Cancer sliding mode control considering to chaotic manners of system | 4 | 2015 |
| | P Baghernia, RK Moghaddam, H Kobravi | <u>4</u> | 2015 |
| | Journal of Medical Imaging and Health Informatics 5 (3), 448-457 | | |
| 22 | Stabilizing Controller Design for a Special Class of PWA Systems using | | |
| | <u>Discontinuous Piecewise Quadratic Lyapunov Functions</u> | | 2015 |
| | H Sajjadi, RK Moghaddam, N Eghbal | | |
| | International Journal of Computer Applications 113 (8) | | |
| 23 | Control of cancer growth using single input autonomous fuzzy Nano-particles | | 2045 |
| | F Razmi, RK Moghaddam, A Rowhanimanesh | | 2015 |
| | Journal of Fuzzy Set Valued Analysis 1 (2015), 86-96 | | |
| 24 | Identification of tumor-immune system via recurrent neural network | 4 | 204.4 |
| | A Pourhashemi, S Haghighatnia, RK Moghaddam | <u>1</u> | 2014 |
| | Health and Technology 4 (1), 27-30 | | |
| 25 | <u>Time Minimization in Cancer Chemotherapy Treatment</u> | | 2011 |
| | P Baghernia, RK Moghaddam | | 2014 |
| | Advanced Science Focus 2 (1), 20-25 | | |
| 26 | A new frequency control approach for isolated WT/FC/UC power system using | | |
| | improved fuzzy PSO & maximum power point tracking of the WT system | <u>3</u> | 2014 |
| | E Ganji, RK Moghaddam, A Toloui, M Taghizadeh | _ | |
| | Journal Of Intelligent & Fuzzy Systems 27 (4), 1963-1976 | | |
| 27 | A new controlling approach of type 1 diabetics based on interval type-2 fuzzy | | |
| | <u>controller</u> | <u>1</u> | 2014 |
| | N Mollaei, RK Moghaddam | _ | |
| | Journal of Fuzzy Set Valued Analysis 2014, 1-14 | | |
| 28 | DESIGN OF A CONTROLLER FOR A CLASS OF PWA SYSTEMS USING A PIECEWISE | | |
| | CONTINUOUS QUADRATIC LYAPUNOV FUNCTION | | 2014 |
| | H SAJADI1a, RK MOQADAM, N EQBAL | | |
| | Indian J. Sci. Res 2 (1), 180-186 | | |
| 29 | A New Frequency Control Method for Isolated Networks with New Maximum | | |
| | Power Point Tracker in Wind Turbine System | | 2014 |
| | E Ganji, RK Moghaddam, M Zarif | | |
| 30 | A new control method for leveling output frequency fluctuations in an | | |
| | autonomous PV/FC/UC network with maximum power point tracking of the | <u>1</u> | 2014 |
| | photovoltaic system | | |

| 31 Optimal control and design of PMBLDC motor using NSGA-III multi-objective algorithms R Sarawain, RK Moghaddam Int. J. Sci. Basic Appl. Res 14 (2), 643 | | E Ganji, RK Moghaddam, A Toloui, M Taghizadeh | | |
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| Begin | 21 | Journal of Intelligent & Fuzzy Systems 27 (4), 1949-1962 | | |
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Academic Experiences

- Assistant Professor, Azad University of Mashhad, Department of Electrical Engineering, 2010 to 2015.
- Associate Professor: Azad University of Mashhad, Department of Electrical Engineering, September 2015 to present.

Executive-Academic Experiences

- Head of Electrical Engineering department, Azad University, Mashhad, Iran (2015-2017)
- General director of Azad university Libraries (2017-2020)
- Head of postgraduate education organization, Azad University(2020 present)

Teaching Experience

Undergraduate Teaching

- Automatic Control Systems
- Electrical circuits
- Digital circuits
- Engineering mathematics

Graduate Teaching

- Optimal Control
- Nonlinear control
- Neural networks
- Intelligent optimization
- Soft computing

Software Skills

- Python Professional Programmer
- MATLAB Professional Programmer
- LATEX

Honors and Awards

- Top researcher of engineering faculty (Mashhad Azad University-2013)
- Top researcher of engineering faculty (Mashhad Azad University-2016)
- Top student among graduated Msc. control engineering students (Ferdowsi University-2001)
- Achieving the national rank of 281(national university entrance exam, mathematics and physics field-1997)
- Graduated from Iran's elite students high school (1997)

Research Interests

- Optimization
 - o Eenergy production optimization in sea wave energy converters
- Nonlinear control
 - o Improved fractional order sliding mode controllers
- Artificial intelligence
 - o Heuristic optimization methods
 - Neural networks