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2492

Supervised PhD Theses

#	Thesis title	By	Date
1	Conceptual design of 250MeV superconducting cyclotron accelerator system for proton therapy centers	Kamran Farhoodi & Saeed Setayeshi	May 2023
2	Modeling and optimization of the synchronizing system in Cyberknife	Payam Samadi Miandoab & Saeed Setayeshi Other Supervisor: Shahyar Saramad	February 2023
3	A gating model design for reducing the voluntary motion effects and exposure in the imaging systems with digitized-sinogram	Valiollah Saba & Saeed Setayeshi	July 2011
4	Optimization of Fuel Management in VVER-1000 Reactor Core by Neural Networks & Cellular Automata	Amirhossein Fadaee & Saeed Setayeshi	March 2009

Supervised MSc Theses

#	Thesis title	By	Date
1	Liver disease diagnosis using clinical data and machine learning algorithms	Yasaman Nezamivandchegini & Saeed Setayeshi	November 2024

2	Early diagnosis of Parkinsons based on brain MRI images processing using deep learning	Davoud Golmohammadi & Saeed Setayeshi	October 2024
3	Design and simulation of coincidence electronic system for animal PET	Amirhossein Khakzad Kehel Dasht & Saeed Setayeshi Other Supervisor: Shahyar Saramad	September 2024
4	Design and simulation of a system based on alternating electric field to control the growth of cancer masses	Marie Mazaheri & Saeed Setayeshi Other Supervisor: Shahyar Saramad	September 2024
5	Fabrication of a nanostructure for guiding antibiotics to pneumonia	Khashayar Naaroori & Saeed Setayeshi Other Supervisor: Mojtaba Shamsaei Zafar Ghandi	September 2024
6	Improvement the quality of single head gamma camera image with adaptive filter by using the Gate code -	Fatemeh Molaei & Saeed Setayeshi Other Supervisor: Mojtaba Shamsaei Zafar Ghandi	September 2024
7	Design and simulation of electronic system for energy measurment of animal PET	Sara Alipanah & Saeed Setayeshi Other Supervisor: Shahyar Saramad	September 2024
8	Design and Fabrication of a Resistive Plate Chamber (RPC) detector for Animal PET	Razieh Soleymanizadeh & Saeed Setayeshi Other Supervisor: Shahyar Saramad	February 2024
9	Evaluation and feasibility of using energy and light to stop the growth of cancerous masses	Sedighe Abdolahinzhad & Saeed Setayeshi Other Supervisor: S.Ali Moussavi Zarandi	September 2023
10	Detection the type of brain diseases with electrical impedance tomography method by processing the brain MRI images	Roya Goodarzi & Saeed Setayeshi Other Supervisor: Shahyar Saramad	September 2023
11	Early detection of liver abnormal tumors based on ultrasonic waves reflection frequency analysis	Fatemeh Azimi Nanvae & Saeed Setayeshi Other Supervisor: S.Ali Moussavi Zarandi	March 2023
12	Design a Low Dose for Optimized pattern Produced of CT Scan of Breast	Amir Hossein Teymouri & Saeed Setayeshi Other Supervisor: S.Ali Moussavi Zarandi	February 2023

13	Intelligence measurement of volume fraction of stratified two-phase flow using gamma ray attenuation based sensors and capacitive sensors	Zanyar Heidary & Saeed Setayeshi	February 2023
14	Designing and optimizing the C-band dedicated accelerator structure using in intraoperative radiation therapy (IORT) by finite element method	Hanieh Mohammadi & Saeed Setayeshi	February 2023
15	Investigation of effective factors in dose uniformity in brachytherapy method	Fatemeh Ahang & Saeed Setayeshi Other Supervisor: Mojtaba Shamsaei Zafar Ghandi	February 2023
16	Implementation of ionizing beam interactions with cells in the presence and absence of nanoparticles to evaluate the level of biological vulnerability in DNA single and double-strand breaks and compare them with the results of experimental processes	Sadegh Golpour Bazkiaei & Saeed Setayeshi	February 2023
17	optimization and adjustment of mammogram components in imaging with the aim of improving image quality enhancement for timely diagnosis of breast cancer	Kimia Gharehkhani & Saeed Setayeshi Other Supervisor: Mojtaba Shamsaei Zafar Ghandi	January 2023
18	Determination of efficient parameters of high frequency transducers in design of breaking process of biological cells for implementation of microchannel systems	Sahar Kiyani & Saeed Setayeshi	August 2022
19	Modeling and Implementation an Electron detector in Intraoperative Radiation therapy(IORT), Based on determining the optimal thickness of the electron absorbing tin layer by Using finite element method(FEM)	Amirreza Nasiri & Saeed Setayeshi	February 2022
20	Investigation the effect of External Gamma Radiotherapy on Covid-19 virus by simulation and cell survival calculation	Maryam Mirzaabdollahi & Saeed Setayeshi	September 2021
21	Implementation and Analysis of FMRI Images of brain through Design of a Processing mechanism for Assessment of Progression of Disorders	Faezeh Lotfi Kazemi & Saeed Setayeshi	March 2021
22	Design an optimal processing protocol of DTI images of brain in Assessment of the progress of the Disorders	Leila Ghomi & Saeed Setayeshi	March 2021
23	Design and producing of protocols for transmitting of medical patterns in temporal diagnosis of trauma using telemedicine	Melika Pashapouryeganeh & Saeed Setayeshi Other Supervisor: Shahyar Saramad	January 2021
24	Layered identification of bio-structures based on time-domain reflected signals	Maryam Moradi & Saeed Setayeshi Other Supervisor: S.Ali Moussavi Zarandi	September 2020
25	Designing and fabricating an optical mammography system to non-destructive diagnosis of breast cancer	Mahsa Nikdehghan & Saeed Setayeshi	February 2020
26	Brain Mapping and VBM method with focus on the effect of fear on various parts of brain for both of functional and structural changes	Sanam Sadat Kazemi & Saeed Setayeshi	February 2020

27	A Conceptual design of complimentary X-ray based imaging system to creating multipurpose imaging centers	Yasaman Sheikholslami & Saeed Setayeshi Other Supervisor: Mojtaba Shamsaei Zafar Ghandi	October 2019
28	Compressed sensing application on interfacing FMRI into DTI data	Mohammad Reza Zamani & Saeed Setayeshi Other Supervisor: Mojtaba Shamsaei Zafar Ghandi	February 2019
29	Design an interface software to extract Diffusion Tensor images (DTI) from functional MRI data	Majid Khoeini & Saeed Setayeshi	February 2019
30	An Electronic Implementation of the Positron Emission Mammography (PEM) in the FPGA Environment for Early detection of Breast Cancer	Delband Roshani & Saeed Setayeshi	February 2019
31	Data analysis and measurement of mass spectrometry of gases rising from cancer cells for detection of tissue type during the surgery	Zahra Khoshbayan & Saeed Setayeshi	October 2017
32	Health physics design for medical centers equipped with PET/CT	Yaser Hossein Tavakoli & Saeed Setayeshi	March 2017
33	Design system of brain emotional signal analysis and effective feature extraction to predict heart attacks	Nafise Kazemi & Saeed Setayeshi	February 2017
34	consideration of us Elastography for diagnosis of Breast cancer	Soodeh Samavat & Saeed Setayeshi	March 2016
35	determine the frequency of the dynamic behavior of the skin cancer cells with ultrasound beams based on mass bioresonance system based on cellular automata	Roya Shafieyan Dokht Omran & Saeed Setayeshi	March 2016
36	Comparison of the accuracy of data from dental anomaly detection simulation system using an ultrasound probe with the gold standard values	Nooshin Kazemi & Saeed Setayeshi	March 2016
37	Design and simulation of diagnostic system for dental abnormalities using ultrasonic	Somaye Babaei & Saeed Setayeshi	February 2016
38	conceptual design for optical detection system	Marjan Shahkhani Masoomi & Saeed Setayeshi	February 2016
39	Monte Carlo simulation of proton therapy system with GATE for patient dose evaluation and optimization	Hadiseh Shahrabi & Saeed Setayeshi	February 2016
40	Realization of Water Diffusion Tensor Imaging in Brain,Heart and Muscle Damage Diagnosis	Ladan Shahshahani & Saeed Setayeshi	February 2016
41	An adaptive controller design of cyberknife for therapy of organs with involuntary actions	Mohammad Salimi & Saeed Setayeshi	July 2015
42	conceptual design and simulation of optical mammography machine	Najmeh Moini & Saeed Setayeshi Other Supervisor: Hamidreza Habibiyan	October 2014
43	Design and prob beams of ultrasound-based diagnostic systems	Fatemeh Salehi Dolabi & Saeed Setayeshi	October 2014

44	Early diagnosis in medical patterns based on protein computations	Elaheh Foomezhi & Saeed Setayeshi	October 2013
45	Design and simulation of ultra sounds transducers to receive the behavioral information of deep vessels of tissues (Coronary arteries)	Fatemeh Asghariomabad & Saeed Setayeshi	October 2013
46	Analysis of changing the pitch of designing Tehran Reactor Core	Fatemeh Zareian Ronizi & Saeed Setayeshi	October 2013
47	Software Implementation of Multi Detector Row Spiral CT Scanner for Patient Dose Optimization and Image Quality Enhancement.	Shahla Razaghi Donighi & Saeed Setayeshi	September 2013
48	review of analog and digital medical imaging system in order to control the exposure dose in telemedicine process and design an appropriate electronic environment to accelerate the proceess of	Sahar Ghavidel & Saeed Setayeshi	February 2013
49	hyperthermic oncology: simulation of thermal energy distribution in cancerous tissues	Vahed Moharramzadeh & Saeed Setayeshi	October 2012
50	Evaluation and Simulation of Stenosed Vessels Diagnosis using Doppler Signal Representation	Mohsen Mehrabi & Saeed Setayeshi	January 2012
51	Designing an Adaptive Controller for Radiation Propagation in Breast Cancer Radiotherapy	Hamidreza Ramezanpour & Saeed Setayeshi	January 2012
52	Coupled Neutronics/Thermal-Hydraulics Analysis of PWR Fuel Assembly during Fast Transient	Mahdi Abedin & Saeed Setayeshi	November 2011
53	Design and Implementation of Client and Server Of PACS	Ali Gitinejad & Saeed Setayeshi	October 2011
54	Research Evaluation and Computer Simulation of Treatment Planing To Design the Cyberknife Radiation Treatment Divice	Kamran Farhoudi & Saeed Setayeshi	October 2011
55	Research Evaluating of Design and Manufacture of Hifu System and Computer Simulations of the Treatment Planning of It	Mahdieh Moghiseh & Saeed Setayeshi	October 2011
56	Optimum Transfer Heat From Fuel Sphericals Of ReactorPBMR	Masume Sadat Latifi & Saeed Setayeshi	August 2011
57	assessment and evalution of doses received by CT examination in adult and children and comparison of scanners in tehran	Leila Sadri & Saeed Setayeshi	December 2010
58	An early computer aided diagnosis of osteoporosis based on T-Score method	Maedeh Mohammadi Far & Saeed Setayeshi	December 2010
59	Breast cancer benign and malignant diagnosis with detection and classification of micro-calcification clusters in mammography	Hajar Moradmamand & Saeed Setayeshi	December 2010
60	Analysis and evaluation of PACS applying on diagnostic and treatment centers of Iran and its computer implementation	Hanieh Deilam Salehi & Saeed Setayeshi	December 2010
61	An Analysis of Design for Fabrication of PEM and an Evaluation of It's Images' Features in Comparison with X-Ray Mammography's Images	Tahereh Sadat Niknejad & Saeed Setayeshi	July 2010

62	Intelligent Diagnosis of Brain Disorders with QEEG Brain Mapping Analysis	Seyedehsan Mirrezaie & Saeed Setayeshi	July 2010
63	Intelligent diagnosis of brain abnormalities with analysis of EEG signals based on neural network	Mohammadreza Yzdanikashani & Saeed Setayeshi	July 2010
64	Brachytherapy simulation in breast cancer and dose study in near critical organs	Hossein Salehiyazdi & Saeed Setayeshi Other Supervisor: Mojtaba Shamsaei Zafar Ghandi	October 2009
65	Intelligent Control of Flow In Primary Cycle of Pressurized Water Reactor (PWR)	Salman Zaferanlouei & Saeed Setayeshi	July 2009
66	Gamma Knife simulation	Mansoor Mehrinejad Khotbehsara & Saeed Setayeshi	July 2009
67	Radionuclide Dosimetry Using in Bone Metastase Therapy by Simulation and Experimental	Majid Karimi & Saeed Setayeshi	June 2009
68	Studying the affective factors on uniform distribution dose in a sample tissue phantom and producing	Sara Vosooghi & Saeed Setayeshi Other Supervisor: Mojtaba Shamsaei Zafar Ghandi	February 2009
69	Identification recognition via infrared hand vein pattern	Elham Saniee & Saeed Setayeshi	February 2009
70	BREAST CANCER DIAGNOSIS IN WOMEN BASED ON NEURAL NETWORKS	Hedieh Katal Mohseni & Saeed Setayeshi	April 2008
71	INTELLIGENT ROBOTS IN HOT CELLS	Pezhman Lali & Saeed Setayeshi	October 2007
72	Simulation The CT Imaging And Determining The Effective Agents For Image Quality	Vali Saba & Saeed Setayeshi	September 2007
73	DESIGN FABRICATION AND INTELLIGENT SIMULATION OF A RADON CALIBRATION SYSTEM	Saeed Heidari & Saeed Setayeshi	July 2007
74	QUALITY CONTROL PROCESS OF MAMMOGRAPHY TO REDUCE THE MEDICAL EXPOSURE AND ENHANCE THE ACCURACY & OPERATION	Masomeh Farsi Zaban & Saeed Setayeshi	February 2007
75	An LQG/LTR Controller design for steam generator of PWR in nuclear Power plant	Abraham Azadegan & Saeed Setayeshi	June 2002
76	Design and implementation of the magnetic structure of the cyclotron accelerator magnet for hardon therapy applications	Morteza Ramezani Nokhodchari & Saeed Setayeshi	September 2025
77	Design and implementation of plasma generator voltage source for medical purposes	Alireza Zarie Barenji & Saeed Setayeshi Other Supervisor: Shahyar Saramad	September 2025

78	Designing and Fabrication of a Resistive Plate Chamber (RPC) for PET imaging with 3D printer	Ali Zareimahmudabadi & Saeed Setayeshi Other Supervisor: Shahyar Saramad	October 2025
79	Early detection of Alzheimers disease from MRI images of the brain by the Fourier transform method	Amirhosein Nasrollahi & Saeed Setayeshi Other Supervisor: Shahyar Saramad	July 2025
80	Designing an air conditioning system based on the use of ground source	Alireza Aghaei & Saeed Setayeshi	February 2025
81	feature Extraction of Alzheimer s disease by image image processing with Fourier s transform in Matlab code	Fateme Khoshnodi & Saeed Setayeshi Other Supervisor: Shahyar Saramad	February 2025

Journal Papers

Portal Records

- 1 Payam Samadi Miandoab, Esben Worm, Rune Hansen, Britta Weber, Morten Hoyer, Shahyar Saramad, Saeed Setayeshi, Per Rugaard Poulsen, "Accuracy of four models and update strategies to estimate liver tumor motion from external respiratory motion", *Frontiers in Oncology*, September 2024 Vol. 14, Num. 0, Page 1-12, September 2024,
- 2 Zahra Pouyanrad, Mojtaba Shamsaei Zafar Ghandi, Saeed Setayeshi, "A Novel Treatment Planning Design for Intraoperative Electron Radiation Therapy (IOERT) using an Electronic Board", *Journal of Biomedical physics & Engineering*, April 2024 Vol. 14, Num. 2, Page 119-128, April 2024,
- 3 Hossein Nikravesh Matin, Saeed Setayeshi, "A computational tumor growth model experience based on molecular dynamics point of view using deep cellular automata", *ARTIFICIAL INTELLIGENCE IN MEDICINE*, January 2024 Vol. 148, Num. 102752, Page 1-13, January 2024,
- 4 Fatemeh Azimi Nanvae, Saeed Setayeshi, "Hepatocellular Carcinoma Diagnosis Based on Ultrasound Images Using Feature Selection Techniques and K-nearest Neighbor Classifier", *HEPATITIS MONTHLY*, November 2023 Vol. 23, Num. 1, Page 1-8, November 2023,
- 5 Fatemeh Chelongar, Saeed Setayeshi, "Designing an artificial intelligence model to evaluate justice in the health system during the COVID-19 pandemic", , October 2023 Vol. 25, Num. 3, Page 128-140, October 2023,
- 6 Delband Roshani, Saeed Setayeshi, "A New Method for Optimizing the Size of Axial FOV in TOF-PEM to Improve Performance of the Scanner", *Journal of Biomedical physics & Engineering*, October 2023 Vol. 13, Num. 5, Page 471-476, October 2023,
- 7 Peyman Ayubi, Saeed Setayeshi, Amir Masoud Rahmani, "Chaotic Complex Hashing- A simple chaotic keyed hash function based on complex quadratic map", *CHAOS SOLITONS & FRACTALS*, August 2023 Vol. 173, Num. 113647, Page 1-20, August 2023,
- 8 Maryam Jandaghian, Saeed Setayeshi, Farbod Razzazi, Arash Sharifi, "Music emotion recognition based on a modified brain emotional learning model", *MULTIMEDIA TOOLS AND APPLICATIONS*, July 2023 Vol. 82, Num. 0, Page 26037-26061, July 2023,
- 9 Neda Bagherzadeh, Saeed Setayeshi, Samaneh Yazdani, "Design a cognitive ontology model to develop a business strategic plan", , July 2023 Vol. 25, Num. 2, Page 106-118, July 2023,
- 10 Payam Samadi Miandoab, Shahyar Saramad, Saeed Setayeshi, Oliver Blanck, "A retrospective multi-center feasibility study of a new PTV margin estimation approach for moving targets using CyberKnife log files", *Journal of Applied Clinical Medical Physics*, April 2023 Vol. 24, Num. 7, Page 1-13, April 2023,

- 11 Nasibeh Rady Raz, Mohammad-R. Akbarzadeh-T, Saeed Setayeshi, "Influence-Based Nano Fuzzy Swarm Oxygen Deficiency Detection and Therapy", IEEE Transactions on Systems, Man, and Cybernetics: Systems, April 2023 Vol. 53, Num. 8, Page 4994-5005, April 2023,
- 12 Maryam Jandaghian, Saeed Setayeshi, Farbod Razzazi, Arash Sharifi, "Development of a cognitive machine for the evaluation of emotions in the Iranian musical Dastgahs using brain emotional learning", , March 2023 Vol. 25, Num. 1, Page 108-122, March 2023,
- 13 Alireza Hakimi, S. Amirhassan Monadjemi, Saeed Setayeshi, "Modeling of the Earth's rotation variations using a novel approach inspired by the brain emotional learning", AUT Journal of Modeling and Simulation, February 2023 Vol. 54, Num. 2, Page 173-184, February 2023,
- 14 Payam Samadi Miandoab, Shahyar Saramad, Saeed Setayeshi, "Respiratory motion prediction based on deep artificial neural networks in CyberKnife system: A comparative study", Journal of Applied Clinical Medical Physics, December 2022 Vol. -, Num. 0, Page 1-13, December 2022,
- 15 Zeinab Rezaei, Saeed Setayeshi, Ebrahim Mahdipour, "A Biased Inferential Naivety learning model for a network of agents", COGNITIVE SYSTEMS RESEARCH, December 2022 Vol. 76, Num. 0, Page 1-12, December 2022,
- 16 Mahdi Arjmand, Saeed Setayeshi, Manouchehr Kelarestaghi, Javad Hatami, "Reconstruction of functional magnetic resonance imaging images using electroencephalogram signals with the method of autoencoder densely connected convolutional networks", , October 2022 Vol. 24, Num. 3, Page 105-115, October 2022,
- 17 Saba Amiri, Saeed Setayeshi, "Fuzzy analytic hierarchy process of neuromarketing evaluation criteria for sustainable products", Journal of Decisions and Operations Research, September 2022 Vol. 7, Num. 3, Page 404-424, September 2022,
- 18 Seyyed Ehsan Mirrezaei, Saeed Setayeshi, F Zakeri, S. Baradaran, "A simulation approach to predict the calibration curve of low LET radiations for biological dosimetry using the Geant4-DNA toolkit", JOURNAL OF INSTRUMENTATION, January 2022 Vol. 17, Num. 0, Page 1-10, January 2022,
- 19 Payam Samadi Miandoab, Shahyar Saramad, Saeed Setayeshi, "Target margin design through analyzing a large cohort of clinical log data in the cyberknife system", Journal of Applied Clinical Medical Physics, January 2022 Vol. 23, Num. 3, Page 1-13, January 2022,
- 20 Alireza Hakimi, S. Amirhassan Monadjemi, Saeed Setayeshi, "An introduction of a reward-based time-series forecasting model and its application in predicting the dynamic and complicated behavior of the Earth rotation (Δt values)", APPLIED SOFT COMPUTING, December 2021 Vol. 113, Num. 107920, Page 1-11, December 2021,
- 21 Kamran Farhoodi, Saeed Setayeshi, Sa Fegghi, "Production and transport of H_2^+ into the IMISC superconducting cyclotron", JOURNAL OF INSTRUMENTATION, November 2021 Vol. 16, Num. 11, Page 11002-11002, November 2021,
- 22 Hamid Karimi-Rouzbahani, Mozghan Shahmohammadi, Ehsan Vahab, Saeed Setayeshi, Thomas Carlson, "Temporal variabilities provide additional category-related information in object category decoding: a systematic comparison of informative EEG features", NEURAL COMPUTATION, October 2021 Vol. 33, Num. 11, Page 3027-3072, October 2021,
- 23 Ali Rabani Nejad, Dariush Naderi, Saeed Setayeshi, "Improving the Measurement of Volume Fraction of Multiphase Fluids Based on Attenuation of Gamma Rays Without the Use of Artificial Intelligence", MAPAN-JOURNAL OF METROLOGY SOCIETY OF INDIA, September 2021 Vol. 36, Num. 4, Page 869-874, September 2021,
- 24 Mahdi Mosleh, Saeed Setayeshi, Behrang Barekatain, Mohammad Mosleh, "A novel audio watermarking scheme based on fuzzy inference system in DCT domain", MULTIMEDIA TOOLS AND APPLICATIONS, March 2021 Vol. 80, Num. 13, Page 20423-20447, March 2021,
- 25 Zeinab Farhoudi, Saeed Setayeshi, "Fusion of deep learning features with mixture of brain emotional learning for audio-visual emotion recognition", SPEECH COMMUNICATION, March 2021 Vol. 127, Num. 0, Page 92-103, March 2021,
- 26 Mahbanou Zohrevandi, Saeed Setayeshi, Azam Rabiee, Midia Reshadi, "Blind separation of underdetermined Convolutional speech mixtures by time-frequency masking with the reduction of musical noise of separated signals", MULTIMEDIA TOOLS AND APPLICATIONS, January 2021 Vol. 80, Num. 8, Page 12601-12618, January 2021,

- 27 Zeinab Rezaei, Saeed Setayeshi, Ebrahim Mahdipour, "A Biased Inferential Naivety Model for Agents' Learning in Social Networks", International journal of Information & Communication Technology Research(ITRC), January 2021 Vol. 13, Num. 3, Page 58-67, January 2021,
- 28 Mahbanou Zohrevandi, Saeed Setayeshi, Azam Rabiee, Midia Reshadi, "A Novel Method for Separation of Two Speech Signals Recorded with Two Microphones", International journal of Information & Communication Technology Research(ITRC), December 2020 Vol. 12, Num. 4, Page 26-32, December 2020,
- 29 Mahsa Ravanbakhsh, Saeed Setayeshi, Mir Mohsen Pedram, Azadeh Mirzaei, "Evaluation of implicit emotion in the message through emotional speech processing based on Mel-Frequency Cepstral Coefficient and Short-Time Fourier Transform features", , June 2020 Vol. 22, Num. 2, Page 71-81, June 2020,
- 30 Peyman Ayubi, Saeed Setayeshi, Amir Masoud Rahmani, "Deterministic chaos game: a new fractal based pseudo-random number generator and its cryptographic application", Journal of Information Security and Applications, June 2020 Vol. 52, Num. 102472, Page 1-20, June 2020,
- 31 M Mehrabi, M Ghannadi Maragheh, Saeed Setayeshi, "Optimization of reflectance pulse oximeter source-detector space using analytical model of light propagation in heterogeneous tissue to accurate diagnosis of Hypoxia tumoral tissue", , May 2020 Vol. 91, Num. 1, Page 1-14, May 2020,
- 32 S Hosseini, Gh Roshani, Saeed Setayeshi, "Precise gamma based two-phase flow meter using frequency feature extraction and only one detector", FLOW MEASUREMENT AND INSTRUMENTATION, April 2020 Vol. 72, Num. 101693, Page 1-11, April 2020,
- 33 Seyyed Ehsan Mirrezaei, Saeed Setayeshi, Farideh Zakeri, Samaneh Baradaran, "CONSTRUCTION AND VALIDATION OF IN VITRO DOSE-RESPONSE CALIBRATION CURVE USING DICENTRIC CHROMOSOME ABERRATION", RADIATION PROTECTION DOSIMETRY, April 2020 Vol. 189, Num. 2, Page 198-204, April 2020,
- 34 Azadeh Haratiannezhadi, Saeed Setayeshi, Javad Hatami, "Design an intelligent system based on a computational cognitive model using attention network task", , March 2020 Vol. 22, Num. 1, Page 81-92, March 2020,
- 35 Zeinab Farhoudi, Saeed Setayeshi, Farbod Razaz, Azam Rabiee, "Emotion recognition based on multimodal fusion using mixture of brain emotional learning", , January 2020 Vol. 21, Num. 4, Page 113-127, January 2020,
- 36 M. Vaghefi, Kumars Mahmoodi, Saeed Setayeshi, M. Akbari, "Application of artificial neural networks to predict flow velocity in a 180 sharp bend with and without a spur dike", SOFT COMPUTING, October 2019 Vol. 24, Num. 1, Page 4-17, October 2019,
- 37 Sh. Kia, Saeed Setayeshi, M. IOghdian, S.H. Ardehali, "Early diagnosis of skin cancer by ultrasound frequency analysis", JOURNAL OF APPLIED CLINICAL MEDICAL PHYSICS, October 2019 Vol. 20, Num. 11, Page 153-168, October 2019,
- 38 A. Assarian, A. Khademzadeh, M. Hosseinzadeh, Saeed Setayeshi, "An efficient resource allocation scheme in a dense RFID network based on cellular learning automate", INTERNATIONAL JOURNAL OF COMMUNICATION SYSTEMS, September 2019 Vol. 32, Num. 1, Page 1-22, September 2019,
- 39 Mohammadreza Salmanpourpaeenafrakati, Mojtaba Shamsaei Zafar Ghandi, Abdollah Saberib, Saeed Setayeshi, Ivan S. Klyuzhin, Vesna Sossid, Arman Rahmim, "Optimized machine learning methods for prediction of cognitive outcome in Parkinsons disease", COMPUTERS IN BIOLOGY AND MEDICINE, June 2019 Vol. 111, Num. 0, Page 1-8, June 2019,
- 40 M. Mosleh, Saeed Setayeshi, B. Barakatian, M. Mosleh, "High-capacity, transparent and robust audio watermarking based on synergy between DCT transform and LU decomposition using genetic algorithm", ANALOG INTEGRATED CIRCUITS AND SIGNAL PROCESSING, May 2019 Vol. 100, Num. 3, Page 513-525, May 2019,
- 41 Leila Sadri, Kh. Mohammadi, Saeed Setayeshi, M.H. Khorasani, "Synthesis, simulation of semi-localized transitions (SLT) model of LiF: Mg, Ti phosphors and investigation of displacement peak in glow curves", RADIATION MEASUREMENTS, May 2019 Vol. 125, Num. 1, Page 89-95, May 2019,
- 42 M.A. Irandoost, A.M. Rahmani, Saeed Setayeshi, "Learning automata-based algorithms for MapReduce data skewness handling", JOURNAL OF SUPERCOMPUTING, April 2019 Vol. 75, Num. 10, Page 6488-6516, April 2019,
- 43 Leila Sadri, Kh. Mohammadi, Saeed Setayeshi, M.H. Khorasani, "The two-level version of semi-localized transitions (SLT) model for thermoluminescence dosimeter", RADIATION MEASUREMENTS, April 2019 Vol. 123, Num. 1, Page 44-53, April 2019,

- 44 M.A. Irandoost, A.M. Rahmani, Saeed Setayeshi, "MapReduce Data Skewness Handling: A Systematic Literature Review", *INTERNATIONAL JOURNAL OF PARALLEL PROGRAMMING*, January 2019 Vol. 47, Num. 5, Page 907-950, January 2019,
- 45 M.A. Irandoost, A.M. Rahmani, Saeed Setayeshi, "A novel algorithm for handling reducer side data skew in Map-Reduce based on a learning automate game", *INFORMATION SCIENCES*, November 2018 Vol. 501, Num. 1, Page 662-679, November 2018,
- 46 A. Assarian, A. Khademzadeh, M. Hosseinzadeh, Saeed Setayeshi, "A beacon analysis-based RFID reader anti-collision protocol for dense reader environments", *COMPUTER COMMUNICATIONS*, September 2018 Vol. 128, Num. 1, Page 18-34, September 2018,
- 47 Mohammad Reza Yazdani Kashani, Saeed Setayeshi, H. Arabalibeik, M.E. Akbari, "Design, construction and performance evaluation of the target tissue thickness measurement system in intraoperative radiotherapy for breast cancer", *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT*, January 2018 Vol. 855, Num. 1, Page 32-37, January 2018,
- 48 S.H. Fakhrmoosavi, Saeed Setayeshi, A. Sharifi, "A modified brain emotional learning model for earthquake magnitude and fear prediction", *ENGINEERING WITH COMPUTERS*, November 2017 Vol. 34, Num. 5, Page 1-6, November 2017,
- 49 S.H. Fakhrmoosavi, Saeed Setayeshi, A. Sharifi, "An intelligent method for generating artificial earthquake records based on hybrid PSO-parallel brain emotional learning inspired model", *ENGINEERING WITH COMPUTERS*, November 2017 Vol. 34, Num. 1, Page 449-463, November 2017,
- 50 N. Babazadeh, P. Salehian, H. Arabalibeik, Saeed Setayeshi, "MCV Measurement of Abnormal Red Blood Cells Using Adaptive Neuro-Fuzzy System with Image Processing", *JOURNAL OF REPRODUCTIVE MEDICINE*, August 2017 Vol. 1, Num. 3, Page 97-104, August 2017,
- 51 B.J. Khasraji, Saeed Setayeshi, "Applying Fuzzy Mathematical Model of Emotional Learning for EEG Signal Classification Between Schizophrenics and Control Participant", *INTERNATIONAL JOURNAL OF NEURAL SYSTEMS*, July 2017 Vol. 4, Num. 1, Page 49-54, July 2017,
- 52 Z. Farhoodi, Saeed Setayeshi, A. Rabiri, "Using learning automata in brain emotional learning for speech emotion recognition", *International Journal of Speech Technology*, June 2017 Vol. 20, Num. 3, Page 553-562, June 2017,
- 53 R. Ashrafidoost, Saeed Setayeshi, A. Sharifi, "Recognizing the Emotional State Changes in Human Utterance by a Learning Statistical Method based on Gaussian Mixture Model", *Journal of Advances in Computer Research*, May 2017 Vol. 3, Num. 2, Page 113-124, May 2017,
- 54 Saeed Setayeshi, V.B. Rad, A. Noruzi, N. Yousefi, "Optimal Design of Wide Area Based on Fuzzy Controller and Intelligent Method", *INTERNATIONAL JOURNAL OF SOFTWARE ENGINEERING AND KNOWLEDGE ENGINEERING*, April 2017 Vol. 27, Num. 3, Page 449-473, April 2017,
- 55 S. Motamed, Saeed Setayeshi, A. Rabiee, A. Sharifi, "Speech emotion recognition based on fusion method", *Journal of Information systems and Telecommunication*, January 2017 Vol. 57, Num. 1, Page 50-56, January 2017,
- 56 S. Motamed, Saeed Setayeshi, A. Rabiee, "Speech emotion recognition based on a modified brain emotional learning model", *Biologically Inspired Cognitive Architectures*, December 2016 Vol. 19, Num. 11, Page 32-38, December 2016,
- 57 Ali Taheri, Shahyar Saramad, Saeed Setayeshi, "Synthesis of high aspect ratio ZnO nanowires with an inexpensive handcrafted electrochemical setup", *CRYSTALLOGRAPHY REPORTS*, November 2016 Vol. 61, Num. 7, Page 1105-1109, November 2016,
- 58 Masume Sadat Latifi, Saeed Setayeshi, G. Starace, M. Fiorentino, "A numerical investigation on the influence of porosity on the steady-state and transient thermal-hydraulic behavior of the PBMR", *JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME*, October 2016 Vol. 138, Num. 10, Page 1020-1023, October 2016,
- 59 S. Roshani, M. Hayati, Saeed Setayeshi, S. Roshani, Gh. Mohammadpour, "A miniaturized harmonic suppressed power amplifier integrated with lowpass filter for long term evolution application", *ANALOG INTEGRATED CIRCUITS AND SIGNAL PROCESSING*, August 2016 Vol. 89, Num. 1, Page 106-118, August 2016,

- 60 S.M. Bath-Haeian, Saeed Setayeshi, "Development of a Cognitive Model for the Evaluation of Factors Contributing to Audience Trust in the News Media Using the Brain Emotion Learning Machine", , July 2016 Vol. 18, Num. 2, Page 26-40, July 2016,
- 61 Elham Saniei, Saeed Setayeshi, Mohammad Esmaeil Akbari, Mitra Navid, "Parameter estimation of breast tumour using dynamic neural network from thermal pattern", Journal of Advanced Research, June 2016 Vol. 7, Num. 6, Page 1045-1055, June 2016,
- 62 E.Nazemi, G.H. Roshani, S.A. Feghhi, Saeed Setayeshi, E. Eftekhari, A. Fatehi, "Optimization of a method for identifying the flow regime and measuring void fraction in a broad beam gamma-ray attenuation technique", INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, April 2016 Vol. 41, Num. 18, Page 7438-7444, April 2016,
- 63 D. Shahbazi, M.H. Asgarian, Saeed Setayeshi, S. Jafari, "The influence of low-frequency electromagnetic fields (ELFs) on MCF-7 cancer cells", , January 2016 Vol. 33, Num. 362, Page 2137-2142, January 2016,
- 64 Masume Sadat Latifi, Saeed Setayeshi, "Numerical Simulation of thermal fluid dynamics in the PBMR core", Special Topics& Reviews in Porous Media - An International Journal, January 2016 Vol. 7, Num. 1, Page 67-76, January 2016,
- 65 N. Radiraz, Saeed Setayeshi, "The power of cognitive science in overcoming cancer and chemo brain: A collaborative personalized therapy", Journal of Cellular Immunotherapy, December 2015 Vol. 1, Num. 1, Page 28-29, December 2015,
- 66 E. Nazemi, S.A. Feghhi, G.H. Roshani, R.G. Peyvandi, Saeed Setayeshi, "Precise Void Fraction Measurement in Two-phase Flows Independent of the Flow Regime Using Gamma-ray Attenuation", NUCLEAR ENGINEERING AND TECHNOLOGY, November 2015 Vol. 48, Num. 1, Page 64-71, November 2015,
- 67 Masume Sadat Latifi, Saeed Setayeshi, "Effects of porosity on thermal-fluid phenomena in PBMR core", JOURNAL OF THERMAL SCIENCE, October 2015 Vol. 2, Num. 4, Page 853-860, October 2015,
- 68 E. Nazemi, S.A. Feghhi, G.H. Roshani, Saeed Setayeshi, R.G. Peyvandi, "A radiation-based hydrocarbon two-phase flow meter for estimating of phase fraction independent of liquid phase density in stratified regime", FLOW MEASUREMENT AND INSTRUMENTATION, September 2015 Vol. 46, Num. 3, Page 25-32, September 2015,
- 69 G.H. Roshani, S.A. Feghhi, Saeed Setayeshi, "Dual-modality and dual-energy gamma ray densitometry of petroleum products using an artificial neural network", RADIATION MEASUREMENTS, July 2015 Vol. 82, Num. 1, Page 154-162, July 2015,
- 70 M. Maleki, N. Noorafza, Saeed Setayeshi, "A novel approach for designing a cognitive sugarscape cellular society using an extended Moren network", INTELLIGENT AUTOMATION AND SOFT COMPUTING, June 2015 Vol. 22, Num. 2, Page 193-201, June 2015,
- 71 Alireza Falahiazar, Saeed Setayeshi, Y. Sharafi, "Computational model of social intelligence based on emotional learning in the Amygdala", The Journal of Mathematics and Computer Science, March 2015 Vol. 14, Num. 14, Page 77-86, March 2015,
- 72 Y. Sharafi, Saeed Setayeshi, Alireza Falahiazar, "An Improved Model of Brain Emotional Learning Algorithm Based on Interval Knowledge", The Journal of Mathematics and Computer Science, March 2015 Vol. 14, Num. 14, Page 42-53, March 2015,
- 73 Fatemeh Zareian Ronizi, Amir Hosein Fadaei,, Saeed Setayeshi, A.R. Shahidi, "Investigation of fuel lattice pitch changes influence on reactor performance through evaluate the neurotic parameters", ANNALS OF NUCLEAR ENERGY, March 2015 Vol. 77, Num. 77, Page 343-350, March 2015,
- 74 M. Fartash, Saeed Setayeshi, F. Razzazi, "A noise robust speech features extraction approach in multidimensional cortical representation using multi-linear principal component analysis", International Journal of Speech Technology, February 2015 Vol. 18, Num. 3, Page 351-365, February 2015,
- 75 H.B. Sousan, M. Mosleh, Saeed Setayeshi, "Designing and Implementing a Fast and Robust Full-Adder in Quantum-Dot Cellular Automate (QCA) Technology", Journal of Advances in Computer Research, February 2015 Vol. 6, Num. 18, Page 27-45, February 2015,
- 76 Elham Saniei, Saeed Setayeshi, Mohammad Esmaeil Akbari, Mitra Navid, "A vascular network matching in dynamic thermography for breast cancer detection", Quantitative InfraRed Thermography Journal, January 2015 Vol. 1, Num. 12, Page 24-36, January 2015,

- 77 Samaneh Baradaran, Saeed Setayeshi, N. Maleknasr, R. Kardan, "A radiation carcinogenesis model applied to radon-induced lung cancer risk prediction using a sugarscape cellular automata", *INTERNATIONAL JOURNAL OF BIOLOGICAL SCIENCES*, January 2015 Vol. 2, Num. 2, Page 34-39, January 2015,
- 78 A.R. Karbaschian, Saeed Setayeshi, A. Sharifi, "Implementation of a fuzzy multi-agent model for city evacuation traffic management using probabilistic automata", , January 2015 Vol. 12, Num. 2, Page 109-118, January 2015,
- 79 A. Sadighzadeh, A. Salehizadeh, M. Mohammadzadeh, F. Shama, Saeed Setayeshi, S.A. Feghhi, S.M. Sadati, M. Rezaei, E.H. Ebrahimi, G.H. Roshani, "Prediction of Neutron Yield of IR-IECF Facility in High Voltages Using Artificial Neural Network", *JOURNAL OF ENGINEERING TECHNOLOGY*, December 2014 Vol. 2014, Num. 1, Page 60-67, December 2014,
- 80 G.H. Roshani, A. Nazemi, S.A. Feghhi, Saeed Setayeshi, "Flow regime identification and void fraction prediction in two-phase flows based on gamma ray attenuation", *MEASUREMENT*, November 2014 Vol. 62, Num. 2015, Page 25-32, November 2014,
- 81 Hajar Moradmand, Saeed Setayeshi, A. Karimian, M Sirous, "Contrast enhancement of mammograms for rapid detection of microcalcification clusters", *Iranian Journal of Medical Physics*, October 2014 Vol. 11, Num. 2, Page 260-269, October 2014,
- 82 E.Lotfi, Saeed Setayeshi, S. Teimoury, "A neural basis computational model of emotional brain for online visual object recognition", *APPLIED ARTIFICIAL INTELLIGENCE*, October 2014 Vol. 28, Num. 8, Page 814-834, October 2014,
- 83 Saeed Heidary, Saeed Setayeshi, "Using adaptive neuro-fuzzy inference system technique for crosstalk correction in simultaneous $^{99m}\text{Tc}/^{201}\text{Tl}$ SPECT imaging: A Monte Carlo simulation study", *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT*, October 2014 Vol. 770, Num. 10, Page 14-20, October 2014,
- 84 Saeed Heidary, Saeed Setayeshi, M.Gh. Maragheh, "Comparison of an adaptive neuro-fuzzy inference system and an artificial neural network in the cross-talk correction of simultaneous $^{99m}\text{Tc} / ^{201}\text{Tl}$ SPECT imaging using a GATE Monte-Carlo simulation", *JOURNAL OF THE KOREAN PHYSICAL SOCIETY*, September 2014 Vol. 65, Num. 5, Page 778-785, September 2014,
- 85 M. Payvasteh, Saeed Setayeshi, M.V. Zadeh, R.A. Zadeh, "A study on melting process of perylene using molecular dynamics simulation", , June 2014 Vol. 14, Num. 2, Page 187-192, June 2014,
- 86 M. Heravi, Saeed Setayeshi, "Intelligent and fast recognition of heart disease based on synergy of linear neural network and logistic regression model", *Journal of Mazandaran University of Medical Sciences*, April 2014 Vol. 24, Num. 112, Page 78-87, April 2014,
- 87 Ramin Barati, Saeed Setayeshi, "Probabilistic Safety Assessment of Tehran research reactor based on a synergy between plant topology and hierarchical evolutions", *PROGRESS IN NUCLEAR ENERGY*, January 2014 Vol. 70, Num. 1, Page 199-208, January 2014,
- 88 Ali Taheri, Shahyar Saramad, Samira Ghalenoei, Saeed Setayeshi, "Taheri-Saramad x-ray detector (TSXD): a novel high spatial resolution X-ray imager based on ZnO nano scintillator wires in polycarbonate membrane", *REVIEW OF SCIENTIFIC INSTRUMENTS*, January 2014 Vol. 85, Num. 1, Page 1-3, January 2014,
- 89 N.B. Khameneh, H. Arabalibeik, Saeed Setayeshi, "Detection of hypochromic anemia in blood sample microscopic images using adaptive network-based fuzzy inference system", *JOURNAL OF COMPUTATIONAL METHODS IN SCIENCES AND ENGINEERING*, January 2014 Vol. 14, Num. 2014, Page 385-394, January 2014,
- 90 Samaneh Baradaran, N. Maleknasr, Saeed Setayeshi, M.E. Akbari, "Prediction of lung cells oncogene transformation for induced radon progeny alpha particles using sugars-cape cellular automate", *Iranian journal of cancer preventions*, December 2013 Vol. 7, Num. 1, Page 40-47, December 2013,
- 91 V. Saba, Saeed Setayeshi, "A new metric design to automatic detection of patient motion in single photon emission computed tomography", *BIOMEDICAL ENGINEERING-APPLICATIONS BASIS COMMUNICATIONS*, December 2013 Vol. 25, Num. 6, Page 135-153, December 2013,
- 92 Ali Taheri, Shahyar Saramad, Samira Ghalenoei, Saeed Setayeshi, "Fabrication, testing and simulation of a high spatial resolution alpha-particle imager based on ZnO nanowires in a polycarbonate nanoporous membrane", *EUROPEAN PHYSICAL JOURNAL C*, November 2013 Vol. 73, Num. 12, Page 1-7, November 2013,

- 93 Leila Sadri, H.R. Khosravi, Saeed Setayeshi, "Assessment and evaluation of patient doses in adult common CT examinations towards establishing national diagnostic reference levels", *International Journal of Radiation Research*, October 2013 Vol. 11, Num. 4, Page 245-252, October 2013,
- 94 Ali Taheri, Shahyar Saramad, Saeed Setayeshi, "ZnO nanowires in polycarbonate membrane as a high resolution X-ray detector", *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT*, July 2013 Vol. 716, Num. 0, Page 15-22, July 2013,
- 95 E Mahdipour, A.M. Rahmani, Saeed Setayeshi, "Importance sampling for a Markov modulated queuing network with customer impatience until the end of service", *Informatica Economic?*, July 2013 Vol. 13, Num. 3, Page 106-118, July 2013,
- 96 E. Mahdipour, A.M. Rahmani, Saeed Setayeshi, "Importance sampling for Jackson networks with customer impatience until the end of service", *JOURNAL OF NETWORK AND COMPUTER APPLICATIONS*, July 2013 Vol. 36, Num. 4, Page 1091-1101, July 2013,
- 97 Ramin Barati, Saeed Setayeshi, "A model for nuclear research reactor dynamics", *NUCLEAR ENGINEERING AND DESIGN*, April 2013 Vol. 262, Num. 1, Page 251-263, April 2013,
- 98 Ramin Barati, Saeed Setayeshi, "Functional reliability evaluation of an MTR-pool type research reactor core using the load-capacity interference model", *ANNALS OF NUCLEAR ENERGY*, March 2013 Vol. 58, Num. 1, Page 151-160, March 2013,
- 99 Ali Taheri, Shahyar Saramad, Saeed Setayeshi, "Geant4 simulation of zinc oxide nanowires in anodized aluminum oxide template as a low energy X-ray scintillator detector", *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT*, February 2013 Vol. 701, Num. 0, Page 30-36, February 2013,
- 100 Ali Taheri, Shahyar Saramad, Saeed Setayeshi, "Monte Carlo simulation of scintillation behavior of zinc oxide under X-ray illumination using GEANT4", *RADIATION EFFECTS AND DEFECTS IN SOLIDS*, January 2013 Vol. 168, Num. 2, Page 153-162, January 2013,
- 101 N. Hosseinpour, Saeed Setayeshi, K. Anssari, M. Mosleh, "Diabetes Diagnosis by Using Computational Intelligence Algorithms", *INTERNATIONAL JOURNAL OF ADVANCED RESEARCH IN COMPUTER SCIENCE AND SOFTWARE ENGINEERING*, December 2012 Vol. 2, Num. 12, Page 71-77, December 2012,
- 102 E. Mahdipour, A.M. Rahmani, Saeed Setayeshi, "Performance evaluation of an importance sampling technique in a Jackson network", *INTERNATIONAL JOURNAL OF SYSTEMS SCIENCE*, September 2012 Vol. 45, Num. 3, Page 373-383, September 2012,
- 103 Ramin Barati, Saeed Setayeshi, "HUMAN RELIABILITY ANALYSIS OF THE TEHRAN RESEARCH REACTOR USING THE SPAR-H METHOD", *NUCLEAR TECHNOLOGY & RADIATION PROTECTION*, September 2012 Vol. 27, Num. 3, Page 319-332, September 2012,
- 104 A Rabiri, Saeed Setayeshi, Soo-Young Lee, "A harmonic-based biologically inspired approach to monaural speech separation", *IEEE SIGNAL PROCESSING LETTERS*, August 2012 Vol. 19, Num. 9, Page 559-562, August 2012,
- 105 Mohsen Mehrabi, Saeed Setayeshi, "Computational Fluid Dynamics Analysis of Pulsatile Blood Flow Behavior in Modelled Stenosed Vessels with Different Severities", *MATHEMATICAL PROBLEMS IN ENGINEERING*, August 2012 Vol. 2012, Num. 2012, Page 1-13, August 2012,
- 106 G.H. Roshani, Saeed Setayeshi, N. Daneshmandpour, "An Efficient Line Fitting Method to Multi Criteria Systems for Error Reduction in Image Edge Detection", *Majlesi Journal of Mechanical Engineering*, June 2012 Vol. 2, Num. 1, Page 33-36, June 2012,
- 107 Ali Taheri, Mansoor Davoodi, Saeed Setayeshi, "INVESTIGATION OF ELECTRON MOBILITY IN GAAS-BASED DEVICES USING GENETIC ALGORITHM", *COMPEL-THE INTERNATIONAL JOURNAL FOR COMPUTATION AND MATHEMATICS IN ELECTRICAL AND ELECTRONIC ENGINEERING*, April 2012 Vol. 31, Num. 2, Page 604-618, April 2012,
- 108 A. Ghalambor, Saeed Setayeshi, M. Mosleh, M. Kheianidish, "Optimal Rules Identification for a Random Number Generator Using Cellular Learning Automate", *Global Journal of Computer Sciences*, March 2012 Vol. 12, Num. 8, Page 57-64, March 2012,

- 109 Hajar Moradmand, Saeed Setayeshi, A.R. Karimian, M. Sirus, M. E. Akbari, "Comparing the performance of image enhancement methods to detect micro-calcification clusters in digital mammography", Iranian journal of cancer preventions, February 2012 Vol. 5, Num. 2, Page 61-68, February 2012,
- 110 Ali Taheri, Shahyar Saramad, Asgar Maleky Shakorkandy, Saeed Setayeshi, "Simulation of the gallium nitride-based pulse mode X-ray detector for short-time applications", RADIATION EFFECTS AND DEFECTS IN SOLIDS, February 2012 Vol. 167, Num. 2, Page 79-87, February 2012,
- 111 Sh.Kia, Saeed Setayeshi, Mojtaba Shamsaei Zafar Ghandi, Mohammad Kia, "Computer-aided diagnosis (CAD) of the skin disease based on an intelligent classificatio of sonogram using neural networkn", NEURAL COMPUTING & APPLICATIONS, February 2012 Vol. --, Num. 0, Page 0-0, February 2012,
- 112 O.Ciraj B, S.A. Cholakova, A. Beganovic, S. Economides, D. Faj, V. Gershan, E. Grupetta, M.H. Kharita, M.Milakovic, Saeed Setayeshi, "Image quality and dose in mammography in 17 countries in Africa, Asia and Eastern Europe: Results from IAEA projects", EUROPEAN JOURNAL OF RADIOLOGY, January 2012 Vol. 81, Num. 9, Page 2161-2168, January 2012,
- 113 Hamidreza Ramezanpour, Saeed Setayeshi, M.E.Akbari, "A novel scheme for optimal control of a nonlinear delay differential equations model to determine effective and optimal administrating chemotherapy agents in breast cancer", Iranian journal of cancer preventions, January 2012 Vol. 4, Num. 4, Page 154-162, January 2012,
- 114 H. Moradmand, Saeed Setayeshi, H.K. Taraghi, "Comparing methods for segmentation of microcalcification clusters in digitized mammograms", International Journal of Computer Science ISSUES, January 2012 Vol. 8, Num. 6, Page 104-108, January 2012,
- 115 G. Darmani, Saeed Setayeshi, Hamidreza Ramezanpour, "Toward analytic solution of nonlinear differential difference equations via extended sensitivity approach", COMMUNICATIONS IN THEORETICAL PHYSICS, January 2012 Vol. 57, Num. 1, Page 5-9, January 2012,
- 116 M.G.Nasseri, E B Saion, Saeed Setayeshi, "The effects and roles of PVP on the phase composition, morphology and magnetic properties of cobalt fer-rite nano-particles prepared by thermal treatment method", FIBERS AND POLYMERS, January 2012 Vol. 13, Num. 7, Page 831-836, January 2012,
- 117 Hamidreza Ramezanpour, Saeed Setayeshi, H. Arabalibeik, A. Jajarmi, "An Iterative Procedure for Optimal Control of Bilinear Systems", International Journal of Instrumentation and Control Systems, January 2012 Vol. 2, Num. 1, Page 1-6, January 2012,
- 118 E. Rastegari, A.M. Rahmani, Saeed Setayeshi, "Pervasive Computing in Healthcare Systems", INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL, November 2011 Vol. 5, Num. 11, Page 1166-1172, November 2011,
- 119 Pezhman Lali, Saeed Setayeshi, "A novel approach to develop the control of Telbot using ANFIS for nuclear hotcells", ANNALS OF NUCLEAR ENERGY, October 2011 Vol. 38, Num. 10, Page 2156-2162, October 2011,
- 120 Hamidreza Ramezanpour, Saeed Setayeshi, M. Mansouri, G. Darmani, "A robust closed-form solution of nonlinear heat transfer equations", International Review on Modelling and Simulation, September 2011 Vol. 4, Num. 5, Page 2691-2695, September 2011,
- 121 Nasim Noorafza, Saeed Setayeshi, A. Khadem Zadeh, "Design of a CellularSugarscape Environment to Increase the Learning Speed in a Stochastic Multi-agent Network", International journal of Information & Communication Technology Research(ITRC), September 2011 Vol. 3, Num. 4, Page 65-72, September 2011,
- 122 M. Mosleh, Saeed Setayeshi, M. Mosleh, "Presenting a novel audio watermarking based on discrete wavelet transform", International Journal of Computer And Electrical Engineering, August 2011 Vol. 3, Num. 4, Page 587-591, August 2011,
- 123 Valiallah Saba, Saeed Setayeshi, Mohammad Ghanadi Maraghe, "Real-time axial motion detection and correction for single photon emission computed tomography using a linear prediction filter", JAPANESE JOURNAL OF RADIOLOGY, August 2011 Vol. 29, Num. 6, Page 437-444, August 2011,
- 124 Gh. Tadayon, Saeed Setayeshi, M. Molavi, "HMM-Based Recognition and Adaptation of Persian Childrens Speech", Contemporary Engineering Sciences, August 2011 Vol. 4, Num. 5, Page 221-228, August 2011,
- 125 Saeed Heidary, Saeed Setayeshi, M. Ghannadi-Maragheh, A. Negarestani, "Monitoring and Measurement of Radon Activity in a New Design of Radon Calibration Chamber", RADIATION MEASUREMENTS, August 2011 Vol. 46, Num. 8, Page 694-700, August 2011,

- 126 Ali Reza Hakimi, Saeed Setayeshi, "A NOVEL APPROACH TO DELTA-T FROM 1620-2010", MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, July 2011 Vol. 10, Num. 1111, Page 1-7, July 2011,
- 127 Nasim Nourafza, Saeed Setayeshi, Ahmad Khadem-Zadeh, "A novel approach to accelerate the convergence speed of a stochastic multi-agent system using recurrent neural nets", NEURAL COMPUTING & APPLICATIONS, June 2011 Vol. 20, Num. 0, Page 0-0, June 2011,
- 128 Daryoosh Rostamifard, Mehdi Fallahnezhad, Salman Zaferanlouei, Saeed Setayeshi, Mohammad Hassan Moradi, "Empirical correlation study of dryout heat transfer at high pressure using high order neural network and feed forward neural network", HEAT AND MASS TRANSFER, March 2011 Vol. 47, Num. 4, Page 439-448, March 2011,
- 129 Amirhossein Fadaee, Mohammad Mehdi Fadaei, Shabnam Kia, Saeed Setayeshi, "Core design improvement by optimizing the control and protection system elements distribution", ANNALS OF NUCLEAR ENERGY, December 2010 Vol. 37, Num. 12, Page 1640-1648, December 2010,
- 130 , Mohammad Mehdi Fadaei, Shabnam Kia, Saeed Setayeshi, "Core design improvement by optimizing the control and protection system elements distribution", ANNALS OF NUCLEAR ENERGY, October 2010 Vol. 37, Num. 12, Page 1640-1648, October 2010,
- 131 Ramin Ayanzadeh, Shahamatnia, Saeed Setayeshi, "DETERMINING OPTIMUM QUEUE LENGTH IN COMPUTER NETWORKS BY USING MEMETIC ALGORITHMS", JOURNAL OF APPLIED SCIENCES, September 2010 Vol. 9, Num. 15, Page 2849-2851, September 2010,
- 132 Kokab Moosavi Khameneh, Saeed Setayeshi, M. Gh. Maragheh, S.J. Ahmadi, M.R.Kardan, S. Nosrati, "SYNTHESIS AND ION-EXCHANGE PROPERTIES OF INORGANIC ION EXCHANGER ZIRCONIUM PHOSPHATE", JOURNAL OF APPLIED SCIENCES, September 2010 Vol. 9, Num. 11, Page 2180-2184, September 2010,
- 133 Salman Zaferanlouei, Daryoosh Rostamifard, Saeed Setayeshi, "Prediction of critical heat flux using ANFIS", ANNALS OF NUCLEAR ENERGY, February 2010 Vol. 00, Num. 37, Page 813-821, February 2010,
- 134 'S.Shamshirband, Hossein Shirgahi, Saeed Setayeshi, "Designing of Rescue Multi Agent System Based on Soft Computing Techniques", ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING, January 2010 Vol. 10, Num. 1, Page 79-83, January 2010,
- 135 R. Rahman, Saeed Setayeshi, "An Analysis of complex systems", The CSI Journal on Computer Science and Engineering(JCSE), December 2009 Vol. 7, Num. 0, Page 1-8, December 2009,
- 136 Amirhossein Fadaee, Saeed Setayeshi, Shabnam Kia, "An optimization method based on combination of cellular automata and simulated annealing for VVER-1000 NPP loading pattern", NUCLEAR ENGINEERING AND DESIGN, December 2009 Vol. 239, Num. 12, Page 2800-2808, December 2009,
- 137 Leila Moghaddam Banaem, Saeed Setayeshi, Mohammad G. Maragheh, Reza Gholipour, "Prediction of the correct measured activity of Re-186 and Re-188 from reactor produced natural rhenium using an artificial neural network", ANNALS OF NUCLEAR ENERGY, December 2009 Vol. 36, Num. 0, Page 1676-1680, December 2009,
- 138 R. Ayanzadeh, K. Hassani, Y. Moghaddass, H. Gheibi, Saeed Setayeshi, "Innovative Approach to Generate Uniform Random Numbers Based on a Novel Cellular Automata", JOURNAL OF APPLIED SCIENCES, November 2009 Vol. 9, Num. 22, Page 4071-4075, November 2009,
- 139 Mohammad Mosleh, Saeed Setayeshi, Amir Masoud Rahmani, "A synergy between HMM-GA based on stochastic cellular automata to accelerate speech recognition", IEICE ELECTRONICS EXPRESS, September 2009 Vol. 6, Num. 18, Page 1304-1311, September 2009,
- 140 Kokab Moosavi Khameneh, Saeed Setayeshi, M.Gh. Maragheh, S.J. Ahmadi, M.R. Kardan, Leila Moghaddam Banaem, "An optimization on strontium separation model for fission products (inactive trace elements) using artificial neural networks", ANNALS OF NUCLEAR ENERGY, August 2009 Vol. 36, Num. 8, Page 1129-1132, August 2009,
- 141 Kokab Moosavi Khameneh, Saeed Setayeshi, S.J. Ahmadi, M.R. Kardan, R. Gholipour Peyvandi, Ali Bahrami Samani, B. Salimi, A. Abbasi, S.M. Mazidi, S.H. Mirfallah, M. Ghannadi Maragheh, "Production of Strontium-89 Radioisotope by Neutron Activation Method and Preparation of ⁸⁹Strontium Chloride Radiopharmaceutical", , May 2009 Vol. 7, Num. 47, Page 53-56, May 2009,
- 142 Amir Masoud Rahmani, Saeed Setayeshi, "Link Processing for Fuzzy Web Pages Clustering and Classification", , April 2009 Vol. , Num. 4, Page 0-0, April 2009,

- 143 , Saeed Setayeshi, "Control rod worth calculation for VVER-1000 nuclear reactor using WIMS and CITATION codes", PROGRESS IN NUCLEAR ENERGY, January 2009 Vol. 51, Num. 1, Page 184-191, January 2009,
- 144 , Saeed Setayeshi, "A New Optimization Method Based On Cellular Automata for VVER-1000 Nuclear Reactor Loading Pattern", ANNALS OF NUCLEAR ENERGY, January 2009 Vol. 36, Num. 5, Page 659-667, January 2009,
- 145 Saeed Setayeshi, Mojtaba Shamsaei Zafar Ghandi, "Wealth adjustment using a synergy between communication, cooperation, and one-fifth of wealth variables in an artificial society.", AI&Soc, January 2009 Vol. 0, Num. 0, Page 0-0, January 2009,
- 146 Amirhossein Fadaee, Saeed Setayeshi, "Control rod worth calculation for VVER-1000 nuclear reactor using WIMS and CITATION codes", , January 2009 Vol. , Num. 51, Page 0-0, January 2009,
- 147 Amirhossein Fadaee, Saeed Setayeshi, "A new optimization method based on cellular automata for VVER-1000 nuclear reator loading pattern", ANNALS OF NUCLEAR ENERGY, December 2008 Vol. --, Num. 36, Page 659-667, December 2008,
- 148 Saeed Setayeshi, Mojtaba Shamsaei Zafar Ghandi, "Wealth Adjustment in an Artificial Society Based on a Sugarscape Model using one Fifth of the Wealth variable", iranian journal of electrical and computer engineering, December 2008 Vol. 8, Num. 1, Page 0-0, December 2008,
- 149 Leila Moghaddam Banaem, Saeed Setayeshi, M. G. Maragheh, S. J. Ahmadi, R. Gholipour, Mohammadali Firouz Zare, Seyed Mohammad Mazodi, Seyed Hasan Mirfalah, "Production and Labeling of Rehenium-186 and 188 via HEDP Using Natural Rhenium and its Biodistribution in Rats", , December 2008 Vol. 4, Num. 46, Page 43-49, December 2008,
- 150 , Saeed Setayeshi, "LONSA, As A Tool for Loading Pattern Optimization Using Synergy of Neural Network & Simulated Annealing for VVER-1000", ANNALS OF NUCLEAR ENERGY, October 2008 Vol. 35, Num. 10, Page 1968-1973, October 2008,
- 151 [en-name N/A], Saeed Setayeshi, Mojtaba Shamsaei Zafar Ghandi, "An Analysis to Wealth Distribution Based on Sugarscape Model in an Artificial Society", , December 2007 Vol. , Num. 3, Page 0-0, December 2007,
- 152 M.H. Davarpour, Saeed Setayeshi, "Intelligent Selection of Arrangement and Players of a Soccer Team based on a Probabilistic Model", International Journal of Computer Science and Network Security(IJCSNS), November 2007 Vol. 7, Num. 11, Page 1-10, November 2007,
- 153 A. Rahman, Saeed Setayeshi, "Wealth distribution", , October 2007 Vol. 7, Num. 26, Page 183-193, October 2007,
- 154 Saeed Setayeshi, "Prediction of influence parameters on the hot rolling process using finite element method and neural network", JOURNALOF MATERIALS PROCESSING TECHNOLOGY, April 2007 Vol. 0, Num. 0, Page 0-0, April 2007,
- 155 Hosein Arabali Beik, Saeed Setayeshi, "Adaptive Control of a PWR Core Power Using Neural Networks", ANNALS OF NUCLEAR ENERGY, April 2005 Vol. , Num. 32, Page 0-0, April 2005,
- 156 Hamidreza Habibiyan, Saeed Setayeshi, Hossein Arabalibeik, "A fuzzy-gain-scheduled neural controller for nuclear steam generators", ANNALS OF NUCLEAR ENERGY, October 2004 Vol. 31, Num. 15, Page 1765-1781, October 2004,
- 157 Mohamadreza Kardan, [en-name N/A], Saeed Setayeshi, "Fast neutron spectra determination by threshold activation detectors using neural networks", RADIATION MEASUREMENTS, April 2004 Vol. , Num. , Page 0-0, April 2004,
- 158 [en-name N/A], Saeed Setayeshi, "Corrigendum to PWR fuel management optimization using neural networks", ANNALS OF NUCLEAR ENERGY, March 2004 Vol. , Num. , Page 0-0, March 2004,
- 159 Saeed Setayeshi, Hasan Bagher Ebadian, [en-name N/A], "Neural network and fuzzy clustering approach for automatic diagnosis of coronary artery disease in nuclear medicine", IEEE TRANSACTIONS ON NUCLEAR SCIENCE, February 2004 Vol. , Num. , Page 0-0, February 2004,
- 160 Mohamadreza Kardan, Saeed Setayeshi, [en-name N/A], [en-name N/A], "Neutron spectra unfolding in bonner spheres spectrometry using neural networks", , December 2003 Vol. , Num. , Page 0-0, December 2003,
- 161 Saeed Setayeshi, Hosein Arabali Beik, "An adaptive-cost -function optimal controller design for a PWR nuclear reactor", ANNALS OF NUCLEAR ENERGY, April 2003 Vol. , Num. , Page 0-0, April 2003,



- 162 Ali Negarestani, Saeed Setayeshi, [en-name N/A], [en-name N/A], "Estimation of the radon concentration in soil related to the environmental parameters by a modified adaline neural networks", , February 2003 Vol. , Num. 58, Page 0-0, February 2003,
- 163 Hosein Arabali Beik, Saeed Setayeshi, "Improved temperature control of a PWR nuclear reactor using an LQG/LTR based controller", IEEE TRANSACTIONS ON NUCLEAR SCIENCE, February 2003 Vol. , Num. 1, Page 0-0, February 2003,
- 164 Mostafa Sedighi, Saeed Setayeshi, [en-name N/A], "Neutron flux flattening in PWRs using neural networks in fuel mangement", IEEE TRANSACTIONS ON NUCLEAR SCIENCE, June 2002 Vol. , Num. 3, Page 0-0, June 2002,
- 165 Ali Negarestani, Saeed Setayeshi, [en-name N/A], [en-name N/A], "Layered neural networks based analysis of radon concentration and environmental parameters in earthquake prediction", JOURNAL OF ENVIRONMENTAL RADIOACTIVITY, June 2002 Vol. , Num. 62, Page 0-0, June 2002,
- 166 Ayoub Banoushi, [en-name N/A], Saeed Setayeshi, "An analytical approach to study the effect of carrier velocities on the gain and breakdown voltage of avalanch photodiodes", , April 2002 Vol. , Num. 4, Page 0-0, April 2002,
- 167 Mostafa Sedighi, Saeed Setayeshi, [en-name N/A], "PWR fuel management optimization using neural networks", ANNALS OF NUCLEAR ENERGY, January 2002 Vol. , Num. 29, Page 0-0, January 2002,












Conference Papers

Portal Records

- 1 Najmeh Moini, Saeed Setayeshi, Hamidreza Habibiyan, "Diffuse optical tomography ", The 21st Iranian Nuclear Conference, February 2015
- 2 Najmeh Moini, Saeed Setayeshi, Hamidreza Habibiyan, "Study of optical mammography system and its simulation ", The 21st Iranian Nuclear Conference, February 2015
- 3 Daryoosh Rostamifard, Mehdi Fallahnezhad, Salman Zaferanlouei, Saeed Setayeshi, Mohammad Hassan Moradi, "The prediction of CHF at near critical pressures by High Order Neural Network (HONN) ", 14th International Heat Transfer Conference (IHTC), August 2010
- 4 Mahmood Ebadian, Hamid Soltanian Zadeh, Saeed Setayeshi, "Neural Network Approach to Diagnosis of Coronary Artery Disease in Nuclear Medicine ", , January 2002
- 5 Abraham Azadegan, Saeed Setayeshi, "LQG/LTR Controller Design for a steam Generafor in Nuclear Power Plant ", , November 2001
- 6 Parviz Parvin, Batool Sajad, [en-name N/A], Mani Hooshvar, Zahra Zamani Poor, Saeed Setayeshi, "MLIS versus AVLIS ", , July 2001
- 7 Mostafa Sedighi, Saeed Setayeshi, Ali Akbar Salehi, "PWR Fuel Mangement Optimization using Neural Networks ", , June 2001
- 8 Saeed Setayeshi, "Optical Signal prediction using Neural Networks ", , May 1999

Taught Courses

#	Course title	Description	Headlines	Date
1	Advanced Medical Imaging With Ionizing Radiation	In this course some advanced lectures regarding systematic interactions in medical imaging will be considered		Fall 2024
2	Neural Networks & Fuzzy Logic	An orientation to conceptual base of neural networks to solve different problems and learning of fuzzy theory for IA applications		Fall 2024

3	Medical Imaging Systems	An study on PET and SPECT in Nuclear Medicine ,Magnetic Resonance ,Imaging Ultrasonic Imaging and ,ULTRA SOUND		Fall 2024
4	Medical Radiation Instrumentation	A review on radiation reaction in medical imaging		Spring 2024
5	Electronic (I)	The purpose of this course is to provide a foundation for analyzing and designing both analog and digital electronic circuits including diodes, bipolar junction transistors and field effect transistors		Spring 2024
6	ARTIFICIAL INTELLIGENCE	Presenting a complete Introduction of Artificial Intelligence and teaching the basic idea regarding the Intelligent Systems		Spring 2024
7	Medical Radiation Instrumentation Visit	In this course students will have an observation from Medical Imaging Centers		Spring 2024
8	ARTIFICIAL INTELLIGENCE	Presenting a complete Introduction of Artificial Intelligence and teaching the basic idea regarding the Intelligent Systems		Spring 2025
9	Advanced Medical Imaging With Non-Ionizing Radiation	In this course some advanced lectures regarding Non-Ionizing systematic interactions in medical imaging will be considered		Spring 2025
10	Medical Radiation Instrumentation Visit	In this course students will have an observation from Medical Imaging Centers		Spring 2025
11	Medical Radiation Instrumentation	A review on radiation reaction in medical imaging		Spring 2025
12	Advanced Medical Imaging With Ionizing Radiation	In this course some advanced lectures regarding systematic interactions in medical imaging will be considered		Fall 2025
13	Complex Systems Physics	An Introduction to Complex Systems Physics		Fall 2025
14	Non-Linear Dynamics	An Introduction to Chaos		Fall 2025
15	Neural Networks & Fuzzy Logic	An orientation to conceptual base of neural networks to solve different problems and learning of fuzzy theory for IA applications		Fall 2025
16	Medical Imaging Systems	An study on PET and SPECT in Nuclear Medicine ,Magnetic Resonance ,Imaging Ultrasonic Imaging and ,ULTRA SOUND		Fall 2025