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15

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707

SAEED SHARIFIAN KHORTOOMI

Associate Professor

Department of Electrical Engineering

Electronics

Supervised MSc Theses

#	Thesis title	By	Date
1	Task assignment algorithm for collective AI execution in IoT devices	Zahra Aghapour Gangalabadi & Saeed Sharifian Khortoomi	September 2021
2	Optimization of phasor measurement unit (PMU) placement by simultaneously considering smart grid parameters and network communication infrastructure in power smart grid	Hamed Zeinalzadeh & Saeed Sharifian Khortoomi	May 2021
3	Correct fitness activity recognition by deep learning networks in IoT based virtual coaching system	Ali Bidaran & Saeed Sharifian Khortoomi	February 2021
4	Scalable allocation of virtual service function chain in IOT involved	Ali Zamani & Saeed Sharifian Khortoomi	January 2021
5	Performance enhancement of chained virtualized network functions in software defined network using metaheuristic methods	Fatemeh Alimoradi & Saeed Sharifian Khortoomi	October 2020
6	efficient get way node selection in internet of things architecture	Maryam Toofanpourromi & Saeed Sharifian Khortoomi	March 2020
7	SPEECH ENHANCEMENT USING DEEP NEURAL NETWORKS WITH SKIP CONNECTIONS	Saman Kai & Saeed Sharifian Khortoomi	February 2020
8	Proactive elastic scheduling of micro-services in FAAS cloud edge for IoT applications	Abolfazl Danayi & Saeed Sharifian Khortoomi	February 2020

9	Cloud load forecasting in order to better QoS	Peyman Yazdanian & Saeed Sharifian Khortoومی	December 2019
10	Traffic matrix estimation using deep learning in cloud data centers	Zahra Safaei & Saeed Sharifian Khortoومی	November 2019
11	A Self-Organized Sensor Data Path Selection Method in Internet of Things	Milad Khademinori & Saeed Sharifian Khortoومی	May 2019
12	Human Activity Recognition using Fused Wearable Sensors and Social Media Based on Distributed Machine Learning on the Platform of Big Data	Alireza Keshavarzian & Saeed Sharifian Khortoومی	February 2019
13	An Improved Algorithm for Collaborated Routing for Bots in IoT Environment	Mohammad Amin Serajinejad & Saeed Sharifian Khortoومی	February 2019
14	Context aware IoT Sensor Function Virtualization in Cloud	Negin Gholizadeshirdarreh & Saeed Sharifian Khortoومی	February 2018
15	Network traffic prediction for resource allocation in network function virtualization(NFV)	Sima Jeddi Khajeh & Saeed Sharifian Khortoومی	November 2017
16	Resource Allocation in SDN Networks for 5G Applications	Alireza Farshin & Saeed Sharifian Khortoومی	July 2017
17	A distributed resource management algorithm for large scale SaaS architecture	Eiman Iranpour & Saeed Sharifian Khortoومی	February 2017
18	A position aided vehicle collision avoidance system in VANET based on Fusion of position sensors	Hossein Khadem Sohi & Saeed Sharifian Khortoومی	February 2017
19	A framework for improvement of home energy management in demand response based systems	Seyyedfarshad Kazemi & Saeed Sharifian Khortoومی	February 2017
20	Accuracy improvement of Inertial Navigation System (INS) by GPS Data Fusion	Hamid Azadi & Saeed Sharifian Khortoومی	October 2014
21	aparallel model to improve the quality and performance of motion capture algorithms using GPGPUs	Roghayeh Ali Panahi & Saeed Sharifian Khortoومی	January 2013

Journal Papers

Portal Records

- 1 Ali Zamani, Bahador Bakhshi Saeskanrood, Saeed Sharifian Khortoومی, "An efficient load balancing approach for service function chain mapping", COMPUTERS & ELECTRICAL ENGINEERING, October 2020 Vol. 0, Num. 0, Page 0-0, October 2020,
- 2 Milad Khademinori, Saeed Sharifian Khortoومی, "EDMARA2: a hierarchical routing protocol for EH-WSNs", WIRELESS NETWORKS, April 2020 Vol. 1, Num. 26, Page 4303-4317, April 2020,
- 3 Mina Emami Khansari, Saeed Sharifian Khortoومی, "A modified water cycle evolutionary game theory algorithm to utilize QoS for IoT services in cloud-assisted fog computing environments", JOURNAL OF SUPERCOMPUTING, December 2019 Vol. 0, Num. 0, Page 1-15, December 2019,

- 4 Sima Jeddi Khajeh, Saeed Sharifian Khortoomi, "A hybrid wavelet decomposer and GMDH-ELM ensemble model for Network function virtualization workload forecasting in cloud computing", APPLIED SOFT COMPUTING, December 2019 Vol. 0, Num. 0, Page 1-18, December 2019,
- 5 Ahmad Rahatibelabad, Saeed Sharifian Khortoomi, S.Ahmad Motamedi, Negin Gholizadeshirdarreh, "A novel model for digital predistortion based on a gravitational search algorithm for linearization of transmitters in LTE networks", Journal of Computational Electronics, November 2019 Vol. 0, Num. 0, Page 1-14, November 2019,
- 6 Saeed Sharifian Khortoomi, Masoud Barati, "An ensemble multiscale wavelet-GARCH hybrid SVR algorithm for mobile cloud computing workload prediction", International Journal of Machine Learning and Cybernetics, September 2019 Vol. 0, Num. 0, Page 1-16, September 2019,
- 7 Ahmad Rahatibelabad, Soheil Gholami Shahrooz, Saeed Sharifian Khortoomi, S.Ahmad Motamedi, "FPGA Implementation of the Generalized Parallel Two-Box Model-based Digital Predistorter for Wireless Transmitters", JOURNAL OF CIRCUITS SYSTEMS AND COMPUTERS, June 2019 Vol. 29, Num. 4, Page 54-73, June 2019,
- 8 Alireza Keshavarzian, Saeed Sharifian Khortoomi, Sanaz Seyedin, "Modified deep residual network architecture deployed on serverless framework of IoT platform based on human activity recognition application", FUTURE GENERATION COMPUTER SYSTEMS-THE INTERNATIONAL JOURNAL OF ESCIENCE, June 2019 Vol. 101, Num. 0, Page 14-28, June 2019,
- 9 Alireza Farshin, Saeed Sharifian Khortoomi, "A modified knowledge-based ant colony algorithm for virtual machine placement and simultaneous routing of NFV in distributed cloud architecture", JOURNAL OF SUPERCOMPUTING, March 2019 Vol. 75, Num. 8, Page 5520-5550, March 2019,
- 10 Sima Jeddi Khajeh, Saeed Sharifian Khortoomi, "A water cycle optimized wavelet neural network algorithm for demand prediction in cloud computing", CLUSTER COMPUTING-THE JOURNAL OF NETWORKS SOFTWARE TOOLS AND APPLICATIONS, February 2019 Vol. 0, Num. 0, Page 1-16, February 2019,
- 11 Mina Emami Khansari, Saeed Sharifian Khortoomi, S.Ahmad Motamedi, "Virtual sensor as a service: a new multicriteria QoS-aware cloud service composition for IoT applications", JOURNAL OF SUPERCOMPUTING, June 2018 Vol. 74, Num. 10, Page 5485-5512, June 2018,
- 12 Ahmad Rahatibelabad, Saeed Sharifian Khortoomi, S.Ahmad Motamedi, "An Accurate Digital Baseband Predistorter Design for Linearization of RF Power Amplifiers by a Genetic Algorithm Based Hammerstein Structure", ANALOG INTEGRATED CIRCUITS AND SIGNAL PROCESSING, April 2018 Vol. 2, Num. 27, Page 1-19, April 2018,
- 13 Naghme Dezhabad, Saeed Sharifian Khortoomi, "Learning-based dynamic scalable load-balanced firewall as a service in network function-virtualized cloud computing environments", JOURNAL OF SUPERCOMPUTING, April 2018 Vol. 1, Num. 1, Page 1-30, April 2018,
- 14 Eiman Iranpour, Saeed Sharifian Khortoomi, "A distributed load balancing and admission control algorithm based on Fuzzy type-2 and Game theory for large-scale SaaS cloud architectures", FUTURE GENERATION COMPUTER SYSTEMS-THE INTERNATIONAL JOURNAL OF GRID COMPUTING-THEORY METHODS AND APPLICATIONS, March 2018 Vol. 1, Num. 86, Page 81-98, March 2018,
- 15 Ehsan Arianyan, Hassan Taheri, Saeed Sharifian Khortoomi, Mohsen Tarighi, "New Six-Phase On-line Resource Management Process for Energy and SLA Efficient Consolidation in Cloud Data Centers", INTERNATIONAL ARAB JOURNAL OF INFORMATION TECHNOLOGY, January 2018 Vol. 15, Num. 1, Page 10-20, January 2018,
- 16 Aref Miri, Saeed Sharifian Khortoomi, Shima Rashidi, Madjid Ghods, "Medical image denoising based on 2D discrete cosinetransform via ant colony optimization", OPTIK, December 2017 Vol. 156, Num. 0, Page 938-948, December 2017,
- 17 Ahmad Rahatibelabad, S.Ahmad Motamedi, Saeed Sharifian Khortoomi, "A Novel Generalized Parallel Two-Box Structure for Behavior Modeling and Digital Predistortion of RF Power Amplifiers at LTE Applications", CIRCUITS SYSTEMS AND SIGNAL PROCESSING, November 2017 Vol. 20, Num. 22, Page 130-152, November 2017,
- 18 Abolfazl Taghribi, Saeed Sharifian Khortoomi, "A Metaheuristically Tuned Interval Type 2 Fuzzy System to Reduce Segmentation Uncertainty in Brain MRI Images", JOURNAL OF MEDICAL SYSTEMS, September 2017 Vol. 41, Num. 0, Page 1-26, September 2017,
- 19 Alireza Farshin, Saeed Sharifian Khortoomi, "A chaotic grey wolf controller allocator for Software Defined Mobile Network (SDMN) for 5th generation of cloud-based cellular systems (5G)", COMPUTER COMMUNICATIONS, August 2017 Vol. 108, Num. 1, Page 94-109, August 2017,

- 20 Alireza Farshin, Saeed Sharifian Khortoomi, "MAP-SDN: a metaheuristic assignment and provisioning SDN framework for cloud datacenters", JOURNAL OF SUPERCOMPUTING, March 2017 Vol. 0, Num. 0, Page 1-25, March 2017,
- 21 Ahmad Rahatibelabad, S.Ahmad Motamedi, Saeed Sharifian Khortoomi, "An Adaptive Digital Predistortion for Compensating Nonlinear Distortions in RF Power Amplifier with Memory Effects", INTEGRATION-THE VLSI JOURNAL, February 2017 Vol. 57, Num. 0, Page 184-194, February 2017,
- 22 Shima Rashidi, Saeed Sharifian Khortoomi, "Cloudlet dynamic server selection policy for mobile task off-loading in mobile cloud computing using soft computing techniques", JOURNAL OF SUPERCOMPUTING, February 2017 Vol. 0, Num. 0, Page 1-25, February 2017,
- 23 Ehsan Arianyan, Hassan Taheri, Saeed Sharifian Khortoomi, "Multi Target Dynamic VM Consolidation in Cloud Data Centers Using Genetic Algorithm", JOURNAL OF INFORMATION SCIENCE AND ENGINEERING, November 2016 Vol. 32, Num. 6, Page 1575-1593, November 2016,
- 24 Shima Rashidi, Saeed Sharifian Khortoomi, "A hybrid heuristic queue based algorithm for task assignment in mobile cloud", FUTURE GENERATION COMPUTER SYSTEMS-THE INTERNATIONAL JOURNAL OF GRID COMPUTING-THEORY METHODS AND APPLICATIONS, October 2016 Vol. 68, Num. 0, Page 331-345, October 2016,
- 25 Mehdi Lotfi, S.Ahmad Motamedi, Saeed Sharifian Khortoomi, "Time-based feedback-control framework for real-time video surveillance systems with utilization control", Journal of Real-Time Image Processing, September 2016 Vol. 0, Num. 0, Page 1-16, September 2016,
- 26 Saman Masarat, Saeed Sharifian Khortoomi, Hassan Taheri, "Modified parallel random forest for intrusion detection systems", JOURNAL OF SUPERCOMPUTING, May 2016 Vol. 0, Num. 0, Page 1-24, May 2016,
- 27 Eiman Iranpour, Saeed Sharifian Khortoomi, "An FPGA implemented brain emotional learning intelligent admission controller for SaaS cloud servers", TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, May 2016 Vol. 1, Num. 1, Page 1-15, May 2016,
- 28 Ehsan Arianyan, Hassan Taheri, Saeed Sharifian Khortoomi, "Novel Heuristics for Consolidation of Virtual Machines in Cloud Data Centers Using Multi-Criteria Resource Management Solutions", JOURNAL OF SUPERCOMPUTING, December 2015 Vol. 0, Num. 0, Page 0-0, December 2015,
- 29 Ehsan Arianyan, Hassan Taheri, Saeed Sharifian Khortoomi, "Novel energy and SLA efficient resource management heuristics for consolidation of virtual machines in cloud data centers", COMPUTERS & ELECTRICAL ENGINEERING, October 2015 Vol. 47, Num. 0, Page 222-240, October 2015,
- 30 Ahmad Rahatibelabad, Eiman Iranpour, Saeed Sharifian Khortoomi, "FPGA Implementation of a Hammerstein Based Digital Predistorter for Linearizing RF Power Amplifiers with Memory Effects", Amirkabir International Journal of Electrical and Electronics Engineering, October 2015 Vol. 47, Num. 2, Page 9-17, October 2015,
- 31 Masoud Barati, Saeed Sharifian Khortoomi, "A hybrid heuristic-based tuned support vector regression model for cloud load prediction", JOURNAL OF SUPERCOMPUTING, September 2015 Vol. 0, Num. 0, Page 1-25, September 2015,
- 32 Abolfazl Soltani, S.M. Ahadi Sarkani, Neda Faraji, Saeed Sharifian Khortoomi, "Designing efficient discriminant functions for multi-category classification using evolutionary methods", NEUROCOMPUTING, September 2015 Vol. 2015, Num. 1, Page 1-1, September 2015,
- 33 Abolfazl Soltani, Saeed Sharifian Khortoomi, "An ultra-high throughput and fully pipelined implementation of AES algorithm on FPGA", MICROPROCESSORS AND MICROSYSTEMS, July 2015 Vol. 39, Num. 7, Page 480-493, July 2015,
- 34 Amir Sharifian, Saeed Sharifian Khortoomi, "A new power system transient stability assessment method based on Type-2 fuzzy neural network estimation", INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, January 2015 Vol. 64, Num. 0, Page 71-87, January 2015,
- 35 Mohsen Tarighi, S.Ahmad Motamedi, Saeed Sharifian Khortoomi, "Intelligent adaptive multi-parameter migration model for load balancing virtualized cluster of servers", TEHNICKI VJESNIK-TECHNICAL GAZETTE, September 2014 Vol. 21, Num. 4, Page 970-981, September 2014,

- 36 Yaghoob Siahmargoei, Mohammad Kazem Akbari, S.Alireza Hashemi Golpayegany, Saeed Sharifian Khortoomi, "Near-Optimal Virtual Machine Packing Based on Resource Requirement of Service Demands Using Pattern Clustering", International Journal of Advanced Studies in Computer Science and Engineering, IJASCSE, July 2014 Vol. 6, Num. 3, Page 1-6, July 2014,
- 37 Mohsen Tarighi, S.Ahmad Motamedi, Saeed Sharifian Khortoomi, "A new model for virtual machine migration in virtualized cluster server based on Fuzzy Decision Making", Journal of Telecommunications, January 2012 Vol. 1, Num. 1, Page 40-51, January 2012,
- 38 Saeed Sharifian Khortoomi, S.Ahmad Motamedi, Mohammad Kazem Akbari, "A predictive and probabilistic load-balancing algorithm for cluster-based web servers", APPLIED SOFT COMPUTING, January 2011 Vol. 11, Num. 1, Page 970-981, January 2011,
- 39 Saeed Sharifian Khortoomi, S.Ahmad Motamedi, Mohammad Kazem Akbari, "An approximation-based load-balancing algorithm with admission control for cluster web servers with dynamic workloads", JOURNAL OF SUPERCOMPUTING, September 2009 Vol. 53, Num. 3, Page 440-463, September 2009,
- 40 Saeed Sharifian Khortoomi, S.Ahmad Motamedi, Mohammad Kazem Akbari, "Estimation-Based Load-Balancing with Admission Control for CLUSTER WEB SERVERS", ETRI JOURNAL, April 2009 Vol. 31, Num. 2, Page 173-181, April 2009,
- 41 Saeed Sharifian Khortoomi, S.Ahmad Motamedi, Mohammad Kazem Akbari, "A content-based load balancing algorithm with admission control for cluster web servers", FUTURE GENERATION COMPUTER SYSTEMS-THE INTERNATIONAL JOURNAL OF GRID COMPUTING-THEORY METHODS AND APPLICATIONS, October 2008 Vol. 24, Num. 8, Page 775-787, October 2008,







Conference Papers

Portal Records

- 1 Mohammad Babaee, Saeed Sharifian Khortoomi, "Calibration of Triaxial Magnetometers for IoT Applications Using Metaheuristic Methods ", Iranian Conference on Signal Processing and Intelligent Systems, December 2018
- 2 Mohammad Babaee, Saeed Sharifian Khortoomi, "An Improved Spread Factor Assignment Method for Large-Scale LoRaWAN Deployments in IoT ", Conference on Signal Processing and Intelligent Systems, December 2018
- 3 Ali Zamani, Saeed Sharifian Khortoomi, "A Novel Approach for Service Function Chain (SFC) Mapping with Multiple SFC instances in a Fog-To-Cloud Computing System ", SIGNAL PROCESSING AND INTELLIGENT SYSTEMS, December 2018
- 4 Peyman Yazdani, Saeed Sharifian Khortoomi, "Cloud Workload Prediction Using ConvNet And Stacked LSTM ", (2018 4th Iranian Conference on Signal Processing and Intelligent Systems (ICSPIS, December 2018
- 5 Milad Khademinori, Saeed Sharifian Khortoomi, "A QGSA Cluster Head Selection Approach for Hierarchical Routing Protocol in the EH-WSNs ", ICSPIC, December 2018
- 6 Negin Gholizadeshirdarreh, Saeed Sharifian Khortoomi, "A load and delay-aware internet of things virtual sensors service assignment in cloud ", (25th Iranian Conference on Electrical Engineering (ICEE 2017, May 2017
- 7 Mohsen Soltanpour, Karim Faez, Saeed Sharifian Khortoomi, Vahid Pourahmadi, "Enhance Evoked Potentials Detection Using RBF Neural Networks: Application to Brain-Computer Interface ", 2nd International Conference on Signal Processing and Intelligent System, December 2016
- 8 Ahmad Rahatibelabad, S.Ahmad Motamedi, Saeed Sharifian Khortoomi, "An Accurate Digital Predistorter Based on a Generalized Two-Box model for LTE Applications ", 2nd International Conference on Signal Processing and Intelligent Systems, December 2016
- 9 Milad Sedigh, Hassan Taheri, Saeed Sharifian Khortoomi, "Dynamic prediction scheduling for virtual machine placement via ant colony optimization ", 1st International Conference on Signal Processing and Intelligent Systems (SPIS), December 2015
- 10 Masoud Barati, Saeed Sharifian Khortoomi, "A New SA-SVR method for Workload Prediction in Cloud Computing ", The first international conference on signal processing & intelligent systems, December 2015

- 11 Naghmeh Dezhabad, S.Ahmad Motamedi, Saeed Sharifian Khortoomi, "A proposed architecture for soft computing in smart grid as a cloud-based service ", 2nd International Conference on Knowledge-Based Engineering and Innovation (KBEI), November 2015
- 12 Shima Rashidi, Saeed Sharifian Khortoomi, "Intelligent allocation algorithm for task offloading in mobile cloud computing ", 23 Th Iranian Conference on Electrical Engineering, May 2015
- 13 Masoud Barati, Saeed Sharifian Khortoomi, "A NEW HYBRID MODEL FOR REQUEST RATE PREDICTION IN MOBILE CLOUD COMPUTING ", Iranian Conference on Electrical Engineering, May 2015
- 14 Hosein Ghasemi, Alireza Toroghihaghighat, Mohammad Reza Razzazi, Saeed Sharifian Khortoomi, "Pervasive privacy: A practical context-aware system to preserve privacy on android smartphones ", 17th Conference on Information and Knowledge Technology (IKT), 2015, May 2015
- 15 Hosein Ghasemi, Mohammad Reza Razzazi, Saeed Sharifian Khortoomi, "Pervasive Privacy: A Practical Context-Aware System to Preserve Privacy on Android Smartphones ", The 7th Conference on Information and Knowledge Technology (IKT 2015), May 2015
- 16 Saman Masarat, Hassan Taheri, Saeed Sharifian Khortoomi, "A novel framework, based on fuzzy ensemble of classifiers for intrusion detection systems ", 4th International eConference on Computer and Knowledge Engineering (ICCKE), 2014, October 2014
- 17 Yaghoob Siahmargoei, Mohammad Kazem Akbari, S.Alireza Hashemi Golpayegany, Saeed Sharifian Khortoomi, "Virtual Machines Resources Auto-scaling Using Services Request Patterns Clustering ", 4th International Conference on Information Technology Management,Communication and Computer, June 2014
- 18 Hamid Azadi, Saeed Sharifian Khortoomi, S.Ahmad Motamedi, "Packet Loss Probability Estimation with Kalman Filter ", The 6th Conference on Information and Knowledge Technology, May 2014
- 19 Solmaz Abdi, S.Ahmad Motamedi, Saeed Sharifian Khortoomi, "Task Scheduling using Modified PSO Algorithm in Cloud Computing Environment ", International Conference on Machine Learning, Electrical and Mechanical Engineering (ICMLEME2014), January 2014
- 20 Leila Esmaeili, Vahid Amiry, Mohammad Kazem Akbari, Saeed Sharifian Khortoomi, "Distributed Classification of Persian News (Case study: Hamshahri News Dataset) ", 3rd International eConference on Computer and Knowledge Engineering, October 2013
- 21 Ali Varamesh, Mohammad Kazem Akbari, M. Fereiduni, Saeed Sharifian Khortoomi, Alireza Bagheri, "Distributed Clique Percolation based Community Detection on Social Networks using MapReduce ", 5th Conference on Information and Knowledge Technology (IKT 2013), May 2013

Taught Courses

#	Course title	Description	Headlines	Date
1	Programmable Logic Circuits	introduction to FPGA devices and VHDL programming		Fall 2021
2	Big Data Processing	Big Data Analytics		Fall 2021
3	Data analytics	Big Data Analytics & Deep learning algorithms for IoT Applications		Spring 2021
4	Microprocessor Systems & Interfaces	ARM Microprocessor SYSTEMS AND PERIPHERALS		Spring 2021
5	Programmable Logic Circuits	introduction to FPGA devices and VHDL programming		Fall 2020
6	Big Data Processing	Big Data Analytics		Fall 2020

