

Mustak Erhan Yalcin

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

1,413
citations

687363
13
h-index

477307
29
g-index

84
all docs

84
docs citations

84
times ranked

778
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Delayed outputs fractional-order hyperchaotic systems synchronization for images encryption. Multimedia Tools and Applications, 2021, 80, 14723-14752. | 3.9 | 3 |
| 2 | RFC 2544 Ethernet Performance Measurements Using FPGA Based Dual-Core ARM. , 2021, , . | | 0 |
| 3 | Artificial Neural Network Models. SpringerBriefs in Applied Sciences and Technology, 2020, , 5-22. | 0.4 | 0 |
| 4 | Implementations of CNNs. SpringerBriefs in Applied Sciences and Technology, 2020, , 51-71. | 0.4 | 0 |
| 5 | Artificial Olfaction System. SpringerBriefs in Applied Sciences and Technology, 2020, , 23-50. | 0.4 | 0 |
| 6 | Chaos Synchronization of Fractional-Order Lurâ€™e Systems. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050206. | 1.7 | 9 |
| 7 | A design of cellular automataâ€™based PUF and its implementation on FPGA. International Journal of Circuit Theory and Applications, 2020, 48, 1244-1255. | 2.0 | 6 |
| 8 | Sperm motility analysis system implemented on a hybrid architecture to produce an intelligent analyzer. Informatics in Medicine Unlocked, 2020, 19, 100324. | 3.4 | 1 |
| 9 | A snail-shaped chaotic system with large bandwidth: dynamical analysis, synchronization and secure communication scheme. SN Applied Sciences, 2020, 2, 1. | 2.9 | 7 |
| 10 | A new family of 5D, 6D, 7D and 8D hyperchaotic systems from the 4D hyperchaotic Vaidyanathan system, the dynamic analysis of the 8D hyperchaotic system with six positive Lyapunov exponents and an application to secure communication design. International Journal of Modelling, Identification and Control, 2020, 35, 241. | 0.2 | 1 |
| 11 | A Hardware Accelerated Packet Classifier Design for A Network Router. , 2020, , . | | 0 |
| 12 | Dynamics, Circuit Design and Synchronization of a New Five Equilibrium Hyperchaotic System. , 2019, , . | | 1 |
| 13 | Dynamic Weighing Using a Time-variant Low Pass Filter. , 2019, , . | | 3 |
| 14 | Design of a pedestrian dead-reckoning system and comparison of methods on the system. , 2018, , . | | 3 |
| 15 | Design of an UWB-based indoor positioning system. , 2018, , . | | 1 |
| 16 | A High Speed True Random Number Generator with Cellular Automata with Random Memory. , 2018, , . | | 2 |
| 17 | Cellular Automata with Random Memory and Its Implementations. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1730017. | 1.7 | 5 |
| 18 | Emulating CNN with template learning on FPGA. , 2017, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | A chaotic time-delay system based digital RNG and integrated autonomous test suite. , 2017, , . | | 0 |
| 20 | Realization of elementary cellular automata with random minimal memory. , 2017, , . | | 1 |
| 21 | Partially Reconfigurable IP Protection System with Ring Oscillator Based Physically Unclonable Functions. , 2017, , . | | 6 |
| 22 | Asynchronous delay doubler and binary low-pass filter for a time-delay chaotic circuit. International Journal of Circuit Theory and Applications, 2016, 44, 1211-1221. | 2.0 | 1 |
| 23 | Multi-scroll chaotic attractors from a generalized time-delay sampled-data system. International Journal of Circuit Theory and Applications, 2016, 44, 1263-1276. | 2.0 | 13 |
| 24 | Cellular network of networks on dynamically partial reconfigurable FPGA. , 2015, , . | | 0 |
| 25 | Design and implementation of an ARM based embedded system for pedestrian dead reckoning. , 2015, , . | | 2 |
| 26 | Attack on a Chaos-Based Random Number Generator Using Anticipating Synchronization. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1550021. | 1.7 | 5 |
| 27 | Key generation and license authentication using physical unclonable functions. , 2015, , . | | 0 |
| 28 | Wave computer core using fixed-point arithmetic. , 2015, , . | | 5 |
| 29 | Computer assisted sperm analysis system designed on a hybrid CPU + FPGA architecture. , 2015, , . | | 0 |
| 30 | Realization of processing blocks of CNN based CASA system on CPU and FPGA. , 2014, , . | | 0 |
| 31 | Digital design of skeletonization. , 2014, , . | | 0 |
| 32 | A new Cellular Automata model with Memory and its FPGA implementation. , 2014, , . | | 2 |
| 33 | A 16 × 16 Cellular Logical Network with partial reconfiguration feature. , 2014, , . | | 1 |
| 34 | Sperm Morphology Analysis with CNN based algorithms. , 2014, , . | | 0 |
| 35 | A Chaotic Time-Delay Sampled-Data System and Its Implementation. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2014, 24, 1450039. | 1.7 | 5 |
| 36 | A parallelized distance transformation architecture for FPGAs. , 2013, , . | | 1 |

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|----|---|-----|-----------|
| 37 | Realization of preprocessing blocks of CNN based CASA system on FPGA. , 2013, , . | | 4 |
| 38 | The Doppler Effect with input driven autowaves. , 2013, , . | | 1 |
| 39 | Throughput enhancement for a new time-delay sampled-data system based True Random Bit Generator. , 2013, , . | | 2 |
| 40 | True random bit generation with timeâ€delay sampledâ€data feedback system. Electronics Letters, 2013, 49, 543-545. | 1.0 | 14 |
| 41 | Dynamic behavior of 1-D array of the memristively-coupled Chua's circuits. , 2013, , . | | 1 |
| 42 | Autowaves in 3-D memristive cellular neural networks. , 2013, , . | | 0 |
| 43 | AN APPLICATION OF SMALL-WORLD CELLULAR NEURAL NETWORKS ON ODOR CLASSIFICATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250013. | 1.7 | 10 |
| 44 | A new CNN based path planning algorithm improved by the Doppler effect. , 2012, , . | | 2 |
| 45 | Nonlinear spatio-temporal wave computing for real-time applications on GPU. , 2012, , . | | 1 |
| 46 | Analysis of sperm motility with CNN architecture. , 2012, , . | | 5 |
| 47 | A novel refinement method for automatic image annotation systems. , 2011, , . | | 0 |
| 48 | Randomly reconfigurable Cellular Neural Network. , 2011, , . | | 5 |
| 49 | Spectrum sensing testbed design for cognitive radio applications. , 2011, , . | | 6 |
| 50 | CMOS realization of a cellular neural network generating autowaves. , 2011, , . | | 0 |
| 51 | Supression of noise from speech signal using spectral subtraction with FPGA. , 2011, , . | | 0 |
| 52 | Temperature-Centric Evaluation of Sensor Transients. , 2011, , . | | 0 |
| 53 | A feature filtering method for eeg data classification. , 2011, , . | | 0 |
| 54 | Implementation of a cellular neural networkâ€based segmentation algorithm on the bio-inspired vision system. Journal of Electronic Imaging, 2011, 20, 013004. | 0.9 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | An active wave computing based path finding approach for 3-D environment. , 2011, , . | | 3 |
| 56 | MULTISCROLL CHAOTIC ATTRACTORS FROM A HYSTERESIS BASED TIME-DELAY DIFFERENTIAL EQUATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 3275-3281. | 1.7 | 18 |
| 57 | A new architecture for Cellular Neural Network on reconfigurable hardware with an advance memory allocation method. , 2010, , . | | 3 |
| 58 | Using a cellular neural network based olfactory bulb model for choosing the best sensor temperature for an odor classification problem. , 2010, , . | | 0 |
| 59 | A new spatio-temporal wave based target tracking algorithm. , 2010, , . | | 1 |
| 60 | An emulated digital wave computer core implementation. , 2009, , . | | 11 |
| 61 | Path planning on cellular nonlinear network using active wave computing technique. Proceedings of SPIE, 2009, , . | 0.8 | 11 |
| 62 | An implementation of 2D locally coupled relaxation oscillators on an FPGA for real-time autowave generation. , 2008, , . | | 10 |
| 63 | A programmable hardware for exploring spatiotemporal waves in real-time. , 2008, , . | | 0 |
| 64 | Synchronization of first-order time-delay systems generating n-scroll chaotic attractors. , 2008, , . | | 0 |
| 65 | A Simple Programmable Autowave Generator Network for Wave Computing Applications. IEEE Transactions on Circuits and Systems II: Express Briefs, 2008, 55, 1173-1177. | 3.0 | 15 |
| 66 | A cellular neural network made of relaxation oscillators for autowave generation in CMOS. , 2008, , . | | 0 |
| 67 | INCREASING THE ENTROPY OF A RANDOM NUMBER GENERATOR USING n-SCROLL CHAOTIC ATTRACTORS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 4471-4479. | 1.7 | 42 |
| 68 | Multi-scroll and hypercube attractors from a general jerk circuit using Josephson junctions. Chaos, Solitons and Fractals, 2007, 34, 1659-1666. | 5.1 | 67 |
| 69 | n -scroll chaotic attractors from a first-order time-delay differential equation. Chaos, 2007, 17, 033112. | 2.5 | 36 |
| 70 | SPATIOTEMPORAL PATTERN FORMATION ON THE ACE16k CNN CHIP. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 1537-1546. | 1.7 | 5 |
| 71 | True Random Bit Generation From a Double-Scroll Attractor. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2004, 51, 1395-1404. | 0.1 | 248 |
| 72 | Watermarking on CNN-UM for image and video authentication. International Journal of Circuit Theory and Applications, 2004, 32, 591-607. | 2.0 | 11 |

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|----|--|-----|-----------|
| 73 | Toward CNN Chip-Specific Robustness. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2004, 51, 892-902. | 0.1 | 25 |
| 74 | STEADY-STATE ANALYSIS OF NONLINEARLY COUPLED CHUA'S CIRCUITS WITH PERIODIC INPUT. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2003, 13, 3395-3407. | 1.7 | 3 |
| 75 | FAMILIES OF SCROLL GRID ATTRACTORS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2002, 12, 23-41. | 1.7 | 269 |
| 76 | MASTER-SLAVE SYNCHRONIZATION OF LUR'E SYSTEMS WITH TIME-DELAY. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2001, 11, 1707-1722. | 1.7 | 238 |
| 77 | n-scroll chaos generators: a simple circuit model. Electronics Letters, 2001, 37, 147. | 1.0 | 87 |
| 78 | Experimental confirmation of 3- and 5-scroll attractors from a generalized Chua's circuit. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2000, 47, 425-429. | 0.1 | 155 |
| 79 | Solving maximum clique problem by cellular neural network. Electronics Letters, 1998, 34, 1504. | 1.0 | 1 |
| 80 | Fragile watermarking and unkeyed hash function implementation for image authentication on CNN-UM. , 0, , . | | 0 |
| 81 | Watermarking for the authentication of video on CNN-UM. , 0, , . | | 2 |
| 82 | Spatiotemporal pattern formation in the ACE16k CNN Chip. , 0, , . | | 4 |
| 83 | CNN Wave based Computation for Robot Navigation on ACE16K. , 0, , . | | 12 |