# Angeliki Pantazi

List of Publications by Year
in descending order



| 65 | 2,045 | 430874 | 254184 |
|---|---|---|---|
| papers | citations | 18 h-index | 43 g-index |

| 67 | 67 | 67 | 2061 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Online Spatio-Temporal Learning in Deep Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 8894-8908. | 11.3 | 16 |
| 2 | Introducing principles of synaptic integration in the optimization of deep neural networks. Nature Communications, 2022, 13, 1885. | 12.8 | 13 |
| 3 | Speech Recognition Using Biologically-Inspired Neural Networks. , 2022, , . | | 3 |
| 4 | Control Systems for Nanopositioning. , 2021, , 401-409. | | 0 |
| 5 | Track-following system optimization for future magnetic tape data storage. Mechatronics, 2021, 80, 102662. | 3.3 | 0 |
| 6 | Deep learning incorporating biologically inspired neural dynamics and in-memory computing. Nature Machine Intelligence, 2020, 2, 325-336. | 16.0 | 86 |
| 7 | Accelerating Spiking Neural Networks using Memristive Crossbar Arrays. , 2020, , . | | 1 |
| 8 | Feedback control of transport systems in tape drives without tension transducers. Mechatronics, 2018, 49, 211-223. | 3.3 | 2 |
| 9 | 201 Gb/in<sup>2</sup>Recording Areal Density on Sputtered Magnetic Tape. IEEE Transactions on Magnetics, 2018, 54, 1-8. | 2.1 | 28 |
| 10 | Online Feature Learning from a non-i.i.d. Stream in a Neuromorphic System with Synaptic Competition. , 2018, , . | | 0 |
| 11 | Compressional Wave Disturbance Suppression for Nanoscale Track-Following on Flexible Tape Media. , 2018, , . | | 2 |
| 12 | Neuromorphic Architecture With 1M Memristive Synapses for Detection of Weakly Correlated Inputs. IEEE Transactions on Circuits and Systems II: Express Briefs, 2017, 64, 1342-1346. | 3.0 | 7 |
| 13 | Unsupervised Learning Using Phase-Change Synapses and Complementary Patterns. Lecture Notes in Computer Science, 2017, , 281-288. | 1.3 | 11 |
| 14 | Neuromorphic system with phase-change synapses for pattern learning and feature extraction. , 2017, , . | | 5 |
| 15 | Tape transport control with suppression of time-varying tension disturbances. IFAC-PapersOnLine, 2017, 50, 7639-7644. | 0.9 | 1 |
| 16 | Feature Learning Using Synaptic Competition in a Dynamically-Sized Neuromorphic Architecture. , 2017, , . | | 1 |
| 17 | Learning spatio-temporal patterns in the presence of input noise using phase-change memristors. , 2016, , . | | 12 |
| 18 | Near-optimal tape transport control with feedback of velocity and tension. IFAC-PapersOnLine, 2016, 49, 19-25. | 0.9 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Stochastic phase-change neurons. Nature Nanotechnology, 2016, 11, 693-699. | 31.5 | 799 |
| 20 | All-memristive neuromorphic computing with level-tuned neurons. Nanotechnology, 2016, 27, 355205. | 2.6 | 102 |
| 21 | 85.9 Gb/in<inline-formula> <tex-math notation="LaTeX">$^{ {2}}$ </tex-math></inline-formula> Recording Areal Density on Barium Ferrite Tape. IEEE Transactions on Magnetics, 2015, 51, 1-7. | 2.1 | 19 |
| 22 | Resolution Limits of Timing-Based Servo Schemes in Magnetic Tape Drives. IEEE Transactions on Magnetics, 2015, 51, 1-4. | 2.1 | 5 |
| 23 | 123 Gbit/in<sup>2</sup> Recording Areal Density on Barium Ferrite Tape. IEEE Transactions on Magnetics, 2015, 51, 1-4. | 2.1 | 37 |
| 24 | Nanoscale track-following for tape storage. , 2015, , . | | 6 |
| 25 | Mechanics of lateral positioning of a translating tape due to tilted rollers: Theory and experiments. International Journal of Solids and Structures, 2015, 66, 88-97. | 2.7 | 6 |
| 26 | Dual-Stage Nanopositioning for High-Speed Scanning Probe Microscopy. IEEE/ASME Transactions on Mechatronics, 2014, 19, 1035-1045. | 5.8 | 65 |
| 27 | A high-bandwidth spintronic position sensor. Nanotechnology, 2014, 25, 375501. | 2.6 | 5 |
| 28 | Tape drive track following using cascade control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 5896-5901. | 0.4 | 2 |
| 29 | Tape transport control based on sensor fusion. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 6849-6855. | 0.4 | 3 |
| 30 | Nanopositioning With Impulsive State Multiplication: A Hybrid Control Approach. IEEE Transactions on Control Systems Technology, 2013, 21, 1352-1364. | 5.2 | 15 |
| 31 | Identification of MIMO transport systems in tape drives. , 2013, , . | | 3 |
| 32 | A high-speed electromagnetically-actuated scanner for dual-stage nanopositioning. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 125-130. | 0.4 | 3 |
| 33 | Skew estimation and feed-forward control in flangeless tape drives. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 484-489. | 0.4 | 0 |
| 34 | Vibration compensation in tape drive track following using multiple accelerometers. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 506-510. | 0.4 | 2 |
| 35 | Analysis and design of multiresolution scan trajectories for high-speed scanning probe microscopy. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 138-144. | 0.4 | 3 |
| 36 | A Hybrid Control Approach to Nanopositioning. , 2013, , 89-120. | | 1 |

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|---|---|---|---|
| 37 | Characterization and Simulation of MIMO Transport Systems in Tape. , 2013, , . | | 0 |
| 38 | Skew Estimation and Compensation in Tape Drives With Flangeless Rollers. , 2013, , . | | 0 |
| 39 | High-speed multiresolution scanning probe microscopy based on Lissajous scan trajectories. Nanotechnology, 2012, 23, 185501. | 2.6 | 137 |
| 40 | Optimal scan trajectories for high-speed scanning probe microscopy. , 2012, , . | | 25 |
| 41 | Initial resolution of head position and skew uncertainty in control systems for flangeless tape drives. , 2012, , . | | 3 |
| 42 | A dual-stage nanopositioning approach to high-speed scanning probe microscopy. , 2012, , . | | 9 |
| 43 | Servo-Pattern Design and Track-Following Control for Nanometer Head Positioning on Flexible Tape Media. IEEE Transactions on Control Systems Technology, 2012, 20, 369-381. | 5.2 | 21 |
| 44 | Nanopositioning With Multiple Sensors: A Case Study in Data Storage. IEEE Transactions on Control Systems Technology, 2012, 20, 382-394. | 5.2 | 18 |
| 45 | High-bandwidth nanopositioner with magnetoresistance based position sensing. Mechatronics, 2012, 22, 295-301. | 3.3 | 42 |
| 46 | Track-following in tape storage: Lateral tape motion and control. Mechatronics, 2012, 22, 361-367. | 3.3 | 21 |
| 47 | Comparison of two non-linear control approaches to fast nanopositioning: Impulsive control and signal transformation. Mechatronics, 2012, 22, 302-309. | 3.3 | 11 |
| 48 | Impulsive control for fast nanopositioning. Nanotechnology, 2011, 22, 135501. | 2.6 | 19 |
| 49 | Non-resistance-based cell-state metric for phase-change memory. Journal of Applied Physics, 2011, 110, 084505. | 2.5 | 52 |
| 50 | 29.5-$hbox{Gb/in}^{2}$ Recording Areal Density on Barium Ferrite Tape. IEEE Transactions on Magnetics, 2011, 47, 137-147. | 2.1 | 105 |
| 51 | Nanopositioning with multiple sensors: MISO control and inherent sensor fusion. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 2012-2017. | 0.4 | 1 |
| 52 | High-speed spiral nanopositioning. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 2018-2023. | 0.4 | 9 |
| 53 | Nanoscale Track-follow Performance for Flexible Tape Media. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 869-874. | 0.4 | 2 |
| 54 | Track-Following High Frequency Lateral Motion of Flexible Magnetic Media With Sub-100 nm Positioning Error. IEEE Transactions on Magnetics, 2011, 47, 1868-1873. | 2.1 | 8 |

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|---|---|---|---|
| 55 | Impulsive control for nanopositioning. , 2011, , . | | 8 |
| 56 | Lateral Tape Motion and Control Systems Design in Tape Storage. Lecture Notes in Control and Information Sciences, 2011, , 271-287. | 1.0 | 0 |
| 57 | Tracking of high frequency piecewise affine signals using impulsive control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 90-95. | 0.4 | 6 |
| 58 | High Speed Nanopositioner with Magneto Resistance-Based Position Sensing. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 306-310. | 0.4 | 3 |
| 59 | Control for high-speed archimedean spiral nanopositioning. , 2010, , . | | 4 |
| 60 | Channel Modeling and Signal Processing for Probe Storage Channels. IEEE Journal on Selected Areas in Communications, 2010, 28, 143-157. | 14.0 | 7 |
| 61 | Achieving Subnanometer Precision in a MEMS-Based Storage Device During Self-Servo Write Process. IEEE Nanotechnology Magazine, 2008, 7, 586-595. | 2.0 | 77 |
| 62 | Nanopositioning for probe-based data storage [Applications of Control]. IEEE Control Systems, 2008, 28, 26-35. | 0.8 | 93 |
| 63 | A Self Servo Writing Scheme for a MEMS Storage Device with Sub-nanometer Precision. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 9242-9247. | 0.4 | 8 |
| 64 | Jitter Investigation and Performance Evaluation of a Small-Scale Probe Storage Device Prototype. , 2007, , . | | 15 |
| 65 | Control of MEMS-Based Scanning-Probe Data-Storage Devices. IEEE Transactions on Control Systems Technology, 2007, 15, 824-841. | 5.2 | 75 |