

# Kheong Sann Chan

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Channel Models and Detectors for Two-Dimensional Magnetic Recording. IEEE Transactions on Magnetics, 2010, 46, 804-811.	2.1	77
2	Analysis of the frequency-domain block LMS algorithm. IEEE Transactions on Signal Processing, 2000, 48, 2332-2342.	5.3	69
3	TDMR Platform Simulations and Experiments. IEEE Transactions on Magnetics, 2009, 45, 3837-3843.	2.1	52
4	Low-Complexity Iterative Row-Column Soft Decision Feedback Algorithm for 2-D Inter-Symbol Interference Channel Detection With Gaussian Approximation. IEEE Transactions on Magnetics, 2013, 49, 4768-4773.	2.1	26
5	Deep Neural Network Based Media Noise Predictors for Use in High-Density Magnetic Recording Turbo-Detectors. IEEE Transactions on Magnetics, 2019, 55, 1-6.	2.1	25
6	Deep Neural Network <i>a Posteriori</i> Probability Detector for Two-Dimensional Magnetic Recording. IEEE Transactions on Magnetics, 2020, 56, 1-12.	2.1	24
7	Analysis of the partitioned frequency-domain block LMS (PFB LMS) algorithm. IEEE Transactions on Signal Processing, 2001, 49, 1860-1874.	5.3	20
8	Modeling of 2-D Magnetic Recording and a Comparison of Data Detection Schemes. IEEE Transactions on Magnetics, 2011, 47, 3685-3690.	2.1	19
9	A Study of SMR/TDMR With a Double/Triple Reader Head Array and Conventional Read Channels. IEEE Transactions on Magnetics, 2014, 50, 24-30.	2.1	15
10	Areal Density Capability of Dual-Structure Media for Microwave-Assisted Magnetic Recording. IEEE Transactions on Magnetics, 2019, 55, 1-9.	2.1	14
11	Data Recovery for Multilayer Magnetic Recording. IEEE Transactions on Magnetics, 2019, 55, 1-16.	2.1	14
12	Deep Neural Network Media Noise Predictor Turbo-Detection System for 1-D and 2-D High-Density Magnetic Recording. IEEE Transactions on Magnetics, 2021, 57, 1-13.	2.1	14
13	Deep Neural Network-Based Detection and Partial Response Equalization for Multilayer Magnetic Recording. IEEE Transactions on Magnetics, 2021, 57, 1-12.	2.1	14
14	Comparison of one- and two-dimensional detectors on simulated and spin-stand readback waveforms. Journal of Magnetism and Magnetic Materials, 2012, 324, 336-343.	2.3	13
15	ISI/ITI Turbo Equalizer for TDMR Using Trained Local Area Influence Probabilistic Model. IEEE Transactions on Magnetics, 2019, 55, 1-15.	2.1	13
16	A System Level Study of Two-Dimensional Magnetic Recording (TDMR). IEEE Transactions on Magnetics, 2013, 49, 2812-2817.	2.1	12
17	Asymmetric Iterative Multi-Track Detection for 2-D Non-Binary LDPC-Coded Magnetic Recording. IEEE Transactions on Magnetics, 2013, 49, 5215-5221.	2.1	12
18	User Areal Density Optimization for Conventional and 2-D Detectors/Decoders. IEEE Transactions on Magnetics, 2018, 54, 1-12.	2.1	10

#	ARTICLE	IF	CITATIONS
19	A Study on Block-Based Neural Network Equalization in TDMR System With LDPC Coding. IEEE Transactions on Magnetics, 2019, 55, 1-5.	2.1	9
20	Techniques for Addressing Saddle Points in the Response Surface Methodology (RSM). IEEE Access, 2019, 7, 85613-85621.	4.2	9
21	A perspective on deep neural network-based detection for multilayer magnetic recording. Applied Physics Letters, 2021, 119, .	3.3	9
22	Skew angle effects in shingled magnetic recording system with double/triple reader head array. Journal of Applied Physics, 2014, 115, 17B753.	2.5	7
23	Comparison of Signals From Micromagnetic Simulations, GFP Model, and an HDD Readback. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	7
24	Optimization of Dual-Structure Recording Media for Microwave-Assisted Magnetic Recording. IEEE Transactions on Magnetics, 2019, , 1-5.	2.1	7
25	Recording Performance and Comparison of Graded- $T_{c}$ and $K_u$ HAMR Systems. IEEE Transactions on Magnetics, 2014, 50, 107-113.	2.1	6
26	Embedded Marker Code for Channels Corrupted by Insertions, Deletions, and AWGN. IEEE Transactions on Magnetics, 2013, 49, 2535-2538.	2.1	5
27	Optimization of the 3-D-MAMR Media Stack. IEEE Transactions on Magnetics, 2019, 55, 1-5.	2.1	5
28	Maximum Likelihood Detection for 3-D-MAMR. IEEE Transactions on Magnetics, 2019, 55, 1-9.	2.1	5
29	Convolutional Neural Network Based Symbol Detector for Two-Dimensional Magnetic Recording. IEEE Transactions on Magnetics, 2021, 57, 1-5.	2.1	5
30	Evaluation of a Joint Detector Demodulator Decoder (JDDD) Performance With Modulation Schemes Specified in the DVB-S2 Standard. IEEE Access, 2019, 7, 86217-86225.	4.2	4
31	Turbo-Detection for Multilayer Magnetic Recording Using Deep Neural Network-Based Equalizer and Media Noise Predictor. IEEE Transactions on Magnetics, 2022, 58, 1-11.	2.1	4
32	Channel Characterization and Performance Evaluation of Bit-Patterned Media. IEEE Transactions on Magnetics, 2013, 49, 723-729.	2.1	3
33	A near zero skew actuation mechanism for hard disk drives. Microsystem Technologies, 2015, 21, 131-137.	2.0	3
34	Optimization of the Spin-Torque Oscillator Response for Microwave-Assisted Magnetic Recording. IEEE Access, 2019, 7, 140134-140141.	4.2	3
35	TDMR Detection System with Local Area Influence Probabilistic a Priori Detector. , 2019, , .		3
36	Iterative Reduced-Complexity Graph-Based Detection for LDPC Coded 2D Recording Channels. IEEE Transactions on Magnetics, 2013, 49, 2598-2602.	2.1	2

#	ARTICLE	IF	CITATIONS
37	Effect of media property variations on shingled magnetic recording channel bit error rate and signal to noise ratio performance. Journal of Applied Physics, 2015, 117, 17E311.	2.5	1
38	Automated 2-D Scanning Setup on Spinstand for Evaluation of Ultra-High-Density Recording Data. IEEE Transactions on Magnetics, 2009, 45, 5100-5103.	2.1	0
39	Position error signal detection from the user sector for high position update rate in patterned media recording technology. Transactions of the Institute of Measurement and Control, 2010, 32, 120-136.	1.7	0
40	Application and Optimization of Factor Graph-Based Detector on 1D ISI Magnetic Recording Channel. IEEE Transactions on Magnetics, 2013, 49, 2500-2503.	2.1	0
41	Optimization of Bit-Patterned Media Recording (BPMR) System via Tolerance Design. IEEE Transactions on Magnetics, 2013, 49, 3624-3627.	2.1	0
42	Analysis of the Joint Viterbi Detector/Decoder (JVDD) Over a Coded AWGN/ISI System as an LDPC Alternative. IEEE Transactions on Broadcasting, 2019, 65, 1-9.	3.2	0