

# Allen Zhang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3624255/publications.pdf>

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15  
papers

1,507  
citations

759233

12  
h-index

1058476

14  
g-index

15  
all docs

15  
docs citations

15  
times ranked

968  
citing authors

#	ARTICLE	IF	CITATIONS
1	Automated Pixel-Level Pavement Crack Detection on 3D Asphalt Surfaces Using a Deep Learning Network. Computer-Aided Civil and Infrastructure Engineering, 2017, 32, 805-819.	9.8	653
2	Automated Pixel-Level Pavement Crack Detection on 3D Asphalt Surfaces with a Recurrent Neural Network. Computer-Aided Civil and Infrastructure Engineering, 2019, 34, 213-229.	9.8	194
3	Deep Learning-Based Fully Automated Pavement Crack Detection on 3D Asphalt Surfaces with an Improved CrackNet. Journal of Computing in Civil Engineering, 2018, 32, .	4.7	191
4	Pixel-Level Cracking Detection on 3D Asphalt Pavement Images Through Deep-Learning- Based CrackNet-V. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 273-284.	8.0	181
5	Automatic classification of pavement crack using deep convolutional neural network. International Journal of Pavement Engineering, 2020, 21, 457-463.	4.4	121
6	3D Shadow Modeling for Detection of Descended Patterns on 3D Pavement Surface. Journal of Computing in Civil Engineering, 2017, 31, .	4.7	33
7	Automatic Segmentation and Enhancement of Pavement Cracks Based on 3D Pavement Images. Journal of Advanced Transportation, 2019, 2019, 1-9.	1.7	25
8	Efficient System of Cracking-Detection Algorithms with 1-mm 3D-Surface Models and Performance Measures. Journal of Computing in Civil Engineering, 2016, 30, .	4.7	23
9	An improved differential box counting method to measure fractal dimensions for pavement surface skid resistance evaluation. Measurement: Journal of the International Measurement Confederation, 2021, 178, 109376.	5.0	21
10	Automatic Pavement Type Recognition for Image-Based Pavement Condition Survey Using Convolutional Neural Network. Journal of Computing in Civil Engineering, 2021, 35, .	4.7	19
11	The Fast Prefix Coding Algorithm (FPCA) for 3D Pavement Surface Data Compression. Computer-Aided Civil and Infrastructure Engineering, 2017, 32, 173-190.	9.8	14
12	A Nonballasted Rail Track Slab Crack Identification Method Using a Level-Set-Based Active Contour Model. Computer-Aided Civil and Infrastructure Engineering, 2018, 33, 571-584.	9.8	14
13	Integrated FFT and XGBoost framework to predict pavement skid resistance using automatic 3D texture measurement. Measurement: Journal of the International Measurement Confederation, 2022, 188, 110638.	5.0	13
14	Detecting Pavement Joints and Grooves with Improved 3D Shadow Modeling. Journal of Computing in Civil Engineering, 2018, 32, .	4.7	5
15	Corrigendum to "Automatic Segmentation and Enhancement of Pavement Cracks Based on 3D Pavement Images" Journal of Advanced Transportation, 2020, 2020, 1-1.	1.7	0