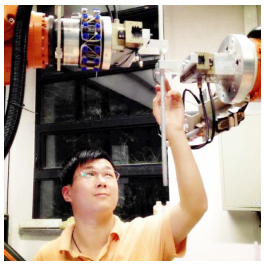
Hao ZHENG
Department of Architecture and Civil Engineering
Type of address: Visiting address.
FW-420
Email: hazheng@cityu.edu.hk
Phone: +852 34424383



Biography

Dr. Hao Zheng currently serves as an Assistant Professor and the Associate Leader of Architecture Programs at the Department of Architecture and Civil Engineering, City University of Hong Kong. He is also the director of Architectural Intelligence Group (AIG). He graduated from the Ph.D. program at the University of Pennsylvania, specializing in machine learning, AI-generated content, data-driven design, and big data analysis. He holds a Master of Architecture degree from the University of California, Berkeley, and Bachelor of Architecture and Arts degrees from Shanghai Jiao Tong University. Previously, Hao worked as a research assistant at Tsinghua University and UC Berkeley with a concentration on the robotic assembly, machine learning, and bio-inspired 3D printing. His teaching experience includes: workshop tutor at Tongji University; lecturer at the University of Pennsylvania; teaching fellow at Shanghai Jiao Tong University. Also, Hao serves as the co-organizer and reviewer for international conferences of ACADIA, CAADRIA, CDRF, and more than 20 SCI/SSCI/AHCI journals. His publication includes around 40 papers in top international conferences and SCI/AHCI journals, including a cover paper in Advanced Science. He has been invited to give more than 20 speeches at large international conferences, and give more than 50 public lectures at universities and academic organizations. He has led development and research projects with a total amount of more than 750,000 USD.

Employment

Department of Architecture and Civil Engineering
City University of Hong Kong
1 Dec 2022 → present

Research outputs

Text Semantics to Image Generation: A Method of Building Facades Design Base on Stable Diffusion Model
Ma, H. & Zheng, H., 2024, *Phygital Intelligence: Proceedings of the 5th International Conference on Computational Design and Robotic Fabrication (CDRF 2023).* Yan, C., Chai, H., Sun, T. & Yuan, P. F. (eds.). Singapore: Springer, p. 24-34 11 p. (Computational Design and Robotic Fabrication).

Draw to shade: A personalized daylighting regulation method through user-involved paintings for enhanced indoor visual comfort and aesthetics experience
Fan, Y., Xue, J., Zheng, H. & Lai, D., 1 Dec 2023, In: Journal of Building Engineering. 80, 13 p., 108014.

Research on Residential Spatial Layout Based on Genetic Algorithm and Dijkstra Algorithm: Take the residential generation design as an example
Lai, Z., Huang, C. & Zheng, H., 24 Nov 2023, p. 131-138. 8 p.

生成式人工智能影响下的建筑设计新模式
袁潮 & 郑豪, 20 Oct 2023, In: 建筑学報. 2023, 10 (No. 659), p. 29-35 7 p.

Prediction of summer daytime land surface temperature in urban environments based on machine learning
Li, Q. & Zheng, H., Oct 2023, In: Sustainable Cities and Society. 97, 22 p., 104732.

3D printing path optimization strategy based on Dijkstra's algorithm --The contour slicing method with Eulerian loop optimization as an example
Lai, Z., Mao, Y., Huang, L. & Zheng, H., Sept 2023, *Proceedings of Building Simulation 2023: 18th Conference of IBPSA.* International Building Performance Simulation Association (IBPSA), p. 2295-2301 (Building Simulation Conference Proceedings; vol. 18).

A personalized bikeability-based cycling route recommendation method with machine learning
Meng, S. & Zheng, H., Jul 2023, In: International Journal of Applied Earth Observation and Geoinformation. 121, 13 p., 103373.

Dragonfly-Inspired Wing Design Enabled by MachineLearning and Maxwell's Reciprocal Diagrams
Zheng, H., Mofatteh, H., Hablicsek, M., Akbarzadeh, A. & Akbarzadeh, M., 23 Jun 2023, In: Advanced Science. 10, 18, 15 p., 2207635.

An Image-Based Machine Learning Method for Urban Features Prediction with Three-Dimensional Building Information
QIN, B. & ZHENG, H., Mar 2023, *HUMAN-CENTRIC, Proceedings of the 28th International Conference on Computer-Aided Architectural Design Research in Asia (CAADRIA) 2023.* Hong Kong: The Association for Computer-Aided Architectural Design Research in Asia (CAADRIA), Vol. 1. p. 109-118 10 p.

Predicting Amenities Distributions for Workers from the Built Environment Based on Machine Learning
WAN, H., PAN, A., XUE, Y. & ZHENG, H., Mar 2023, *HUMAN-CENTRIC, Proceedings of the 28th International Conference on Computer-Aided Architectural Design Research in Asia (CAADRIA) 2023.* Hong Kong: The Association for Computer-Aided Architectural Design Research in Asia (CAADRIA), Vol. 1. p. 19-28 10 p.

Artificial Intelligence Prediction of Urban Spatial Risk Factors from an Epidemic Perspective
Zhang, Y., Zhang, Q., Zhao, Y., Deng, Y., Liu, F. & Zheng, H., 2023, *Hybrid Intelligence: Proceedings of the 4th International Conference on Computational Design and Robotic Fabrication (CDRF 2022).* Yuan, P. F., Chai, H., Yan, C., Li, K. & Sun, T. (eds.). Springer Singapore, p. 209-222 14 p. (Computational Design and Robotic Fabrication).

A Web-based Interactive Structural Pattern Generation Tool with Graphic Statics and Machine Learning of Dragonfly Wings
Zheng, H. & Akbarzadeh, M., 2023, *Hybrids & Haecceities: Proceedings of the 42nd Annual Conference of the Association for Computer Aided Design in Architecture.* Akbarzadeh, M., Aviv, D., Jamelle, H. & Stuart-Smith, R. (eds.). Philadelphia, USA: IngramSpark, p. 300-309 10 p.

基于 GAN 的城市快递自提服务设施选址优化研究
胡一可, 温雯 , 刘雅心 & 郑豪, 15 Dec 2022, In: 天津大学学报（自然科学与工程技术版）. 55, 12（总第384期）, p. 1237-1248 12 p.Scopus citations: 1

Multi-Objective Optimization of Building Environmental Performance: An Integrated Parametric Design Method Based on Machine Learning Approaches
Lu, Y., Wu, W., Geng, X., Liu, Y., Zheng, H. & Hou, M., Oct 2022, In: Energies. 15, 19, 7031.Scopus citations: 2

Urban spatial risk prediction and optimization analysis of POI based on deep learning from the perspective of an epidemic
Zhang, Y., Zhang, Q., Zhao, Y., Deng, Y. & Zheng, H., Aug 2022, In: International Journal of Applied Earth Observation and Geoinformation. 112, 102942.Scopus citations: 7

基于生成对抗网络的复合功能体系计算性设计 - 以职业技术学院校园平面生成为例
陈梦凡, 郑豪 & 吴建, 30 Jun 2022, In: 建筑学報. S1, p. 103-108 6 p.

The Dragonfly Wing Project
Zheng, H. & Akbarzadeh, M., May 2022, In: Architectural Design. 92, 3, p. 132-133 2 p.Scopus citations: 1

Morphological Regeneration of the Industrial Waterfront Based on Machine Learning
Huang, S. & Zheng, H., 12 Apr 2022, *Proceedings of the 27th International Conference of the Association for Computer Aided Architectural Design Research in Asia (CAADRIA) 2022.* The Association for Computer-Aided Architectural Design Research in Asia (CAADRIA), Vol. 1. p. 475-484 10 p.

A POI-Based Machine Learning Method in Predicting Health: Predicting Residents' Health Status and Implications for Healthy City Planning

Cao, S. & Zheng, H., 2022, *Proceedings of the 41st Annual Conference of the Association for Computer Aided Design in Architecture.* Dörfler, K., Parascho, S. & Scott, J. (eds.). ACADIA, p. 160-169 (Association for Computer Aided Design in Architecture Annual Conference, ACADIA).

Geometry and Topology: Building Machine Learning Surrogate Models with Graphic Statics Method
Zheng, H., 2022

A generative architectural and urban design method through artificial neural networks
Zheng, H. & Yuan, P. F., Nov 2021, In: Building and Environment. 205, 108178.Scopus citations: 21

A POI-Based Machine Learning Method in Predicting Health
Cao, S. & Zheng, H., Nov 2021, *Proceedings of the 41st Annual Conference of the Association for Computer Aided Design in Architecture.* Dörfler, K., Parascho, S., Scott, J., Bogosian, B., Farahi, B., Jose Luis García del Castillo y López, Grant, J. A. & Noel, V. A. A. (eds.). Association for Computer Aided Design in Architecture (ACADIA), p. 160-169 10 p.

Prediction of crime rate in urban neighborhoods based on machine learning
He, J. & Zheng, H., Nov 2021, In: Engineering Applications of Artificial Intelligence. 106, 104460.Scopus citations: 14

Lightweight Structures and the Geometric Equilibrium in Dragonfly Wings
ZHENG, H., HABLICSEK, M. & AKBARZADEH, M., Aug 2021, *INSPIRING THE NEXT GENERATION - CONFERENCE PROCEEDINGS: The 7th International Conference on Spatial Structures and the Annual Symposium of the IASS.* Behnejad, A., Parke, G. & Samavati, O. (eds.). p. 1592-1603 12 p.

Measurement of Spatial Openness of Indoor Space Using 3D Isovists Methods and Fibonacci Lattices
Cao, Y., Zheng, H. & Liu, S., Jul 2021, *Computer-Aided Architectural Design. Design Imperatives : The Future is Now: 19th International Conference, CAAD Futures 2021, Los Angeles, CA, USA, July 16–18, 2021, Selected Papers.* Gerber, D., Pantazis, E., Bogosian, B., Nahmad, A. & Miltiadis, C. (eds.). 1 ed. Springer Singapore, p. 419-435 17 p.

A POI-Based Machine Learning Method for Predicting Residents' Health Status
Cao, S. & Zheng, H., 26 Jun 2021, *Proceedings of the 2021 DigitalFUTURES: The 3rd International Conference on Computational Design and Robotic Fabrication (CDRF 2021).* Yuan, P. F., Chai, H., Yan, C. & Leach, N. (eds.). Springer Singapore, p. 139-147 9 p.

Ice Stereotomy: *A Case Study of Free-Form Ice Shell*
SONG, J., WANG, Y., CHEN, P. & ZHENG, H., 28 Mar 2021, *Projections: Proceedings of the 26th International Conference of the Association for Computer-Aided Architectural Design Research in Asia (CAADRIA 2021).* Globa, A., van Ameijde, J., Fingrut, A., Kim, N. & Lo, T. T. S. (eds.). The Association for Computer-Aided Architectural Design Research in Asia (CAADRIA), Vol. 1. p. 311-320 10 p. (Projections - Proceedings of the International Conference of the Association for Computer-Aided Architectural Design Research in Asia, CAADRIA).

Predicting the Heat Map of Street Vendors from Pedestrian Flow through Machine Learning
Shou, X., Chen, P. & Zheng, H., Mar 2021, *'PROJECTIONS' : Proceedings of the 26th International Conference of the Association for Computer-Aided Architectural Design Research in Asia.* Globa, A., Ameijde, J. v., Fingrut, A., Kim, N. & Lo, T. T. S. (eds.). The Association for Computer-Aided Architectural Design Research in Asia (CAADRIA), Vol. 2. p. 569-578 10 p.Scopus citations: 3

Machine learning assisted evaluations in structural design and construction
Zheng, H., Moosavi, V. & Akbarzadeh, M., Nov 2020, In: Automation in Construction. 119, 103346.Scopus citations: 33

A Machine Learning Method of Predicting Behavior Vitality Using Open Source Data
Sun, Y., Jiang, L. & Zheng, H., 26 Oct 2020, *Proceedings of the 40th Annual Conference of the Association for Computer Aided Design in Architecture (ACADIA): Volume 1: Technical Papers, Keynote Conversations.* Slocum, B., Ago, V., Doyle, S., Marcus, A., Yablonina, M. & Campo, M. d. (eds.). Association for Computer Aided Design in Architecture (ACADIA), Vol. 1. p. 160-168 9 p.Scopus citations: 3

Generating and Optimizing a Funicular Arch Floor Structure
Zheng, H., Wang, X., Qi, Z., Sun, S. & Akbarzadeh, M., Oct 2020, *Distributed Proximities - Proceedings of the 40th Annual Conference of the Association for Computer Aided Design in Architecture, ACADIA 2020: Volume 1: Technical Papers, Keynote Conversations.* SLOCUM, B., AGO, V., DOYLE, S., MARCUS, A., YABLONINA, M. & DEL CAMPO, M. (eds.). Association for Computer Aided Design in Architecture (ACADIA), p. 208-217 10 p.

Dynamic Symbiont: An Interactive Urban Design Method Combining Swarm Intelligence and Human Decisions
Ren, Y., Chu, J. & Zheng, H., 16 Sept 2020, *Proceedings of the 38th eCAADe Conference on Education and Research in Computer Aided Architectural Design in Europe.* Werner, L. C. & Koering, D. (eds.). eCAADe (Education and Research in Computer Aided Architectural Design in Europe), Vol. 1. p. 383-392 10 p. (Proceedings of the International Conference on Education and Research in Computer Aided Architectural Design in Europe; vol. 1).

Form Finding and Evaluating Through Machine Learning: The Prediction of Personal Design Preference in Polyhedral Structures
Zheng, H., 3 Sept 2020, *Architectural Intelligence: Selected Papers from the 1st International Conference on Computational Design and Robotic Fabrication (CDRF 2019).* Yuan, P. F., Xie, M., Leach, N., Yao, J. & Wang, X. (eds.). 1 ed. Springer Singapore, p. 207-217 11 p.

Apartment Floor Plans Generation via Generative Adversarial Networks
ZHENG, H., AN, K., WEI, J. & REN, Y., Aug 2020, ***RE: Anthropocene, Design in the Age of Humans****: Proceedings of the 25th International Conference on Computer-Aided Architectural Design Research in Asia (CAADRIA 2020).* Holzer, D., Nakapan, W., Globa, A. & Koh, I. (eds.). Hong Kong: The Association for Computer-Aided Architectural Design Research in Asia (CAADRIA), Vol. 2. p. 601-610 10 p.Scopus citations: 13

Architectural Layout Design through Simulated Annealing Algorithm
ZHENG, H. & REN, Y., Aug 2020, ***RE: Anthropocene, Design in the Age of Humans****: Proceedings of the 25th International Conference on Computer-Aided Architectural Design Research in Asia (CAADRIA 2020).* Holzer, D., Nakapan, W., Globa, A. & Koh, I. (eds.). Hong Kong: The Association for Computer-Aided Architectural Design Research in Asia (CAADRIA), Vol. 1. p. 275-284 10 p.

Machine Learning Assisted Urban Filling
Shen, J., Liu, C., Ren, Y. & Zheng, H., Aug 2020, *RE: Anthropocene, Design in the Age of Humans: Proceedings of the 25th International Conference on Computer-Aided Architectural Design Research in Asia (CAADRIA 2020) .* Holzer, D., Nakapan, W., Globa, A. & Koh, I. (eds.). The Association for Computer-Aided Architectural Design Research in Asia (CAADRIA), Vol. 2. p. 679-688 10 p.

Machine Learning Neural Networks Construction and Analysis in Vectorized Design Drawings
Zheng, H. & Ren, Y., Aug 2020, *RE: Anthropocene, Design in the Age of Humans: Proceedings of the 25th International Conference on Computer-Aided Architectural Design Research in Asia (CAADRIA 2020) .* Holzer, D., Nakapan, W., Globa, A. & Koh, I. (eds.). The Association for Computer-Aided Architectural Design Research in Asia (CAADRIA), Vol. 2. p. 709-716 10 p.

The Spire of AI: Voxel-based 3D Neural Style Transfer
Ren, Y. & Zheng, H., Aug 2020, *RE: Anthropocene, Design in the Age of Humans: Proceedings of the 25th International Conference on Computer-Aided Architectural Design Research in Asia (CAADRIA 2020) .* Holzer, D., Nakapan, W., Globa, A. & Koh, I. (eds.). The Association for Computer-Aided Architectural Design Research in Asia (CAADRIA), Vol. 2. p. 619-628 10 p. (RE: Anthropocene, Design in the Age of Humans - Proceedings of the International Conference on Computer-Aided Architectural Design Research in Asia, CAADRIA; vol. 2).Scopus citations: 1

Pipes of AI - Machine Learning Assisted 3D Modelling Design
Liu, C., Shen, J., Ren, Y. & Zheng, H., 26 Jun 2020, *Proceedings of the 2020 DigitalFUTURES: The 2nd International Conference on Computational Design and Robotic Fabrication (CDRF 2020).* Yuan, P. F., Yao, J., Yan, C., Wang, X. & Leach, N. (eds.). 1 ed. Springer Singapore, p. 17-26 10 p.

Form Finding and Evaluating Through Machine Learning: The Prediction of Personal Design Preference in Polyhedral Structures
Zheng, H., 2020, *Proceedings of the 2019 DigitalFUTURES - The 1st International Conference on Computational Design and Robotic Fabrication (CDRF 2019).* Yuan, P. F., Xie, Y. M. (., Yao, J. & Yan, C. (eds.). Springer Singapore, p. 169-178 10 p.

Machine Learning Assisted Evaluations in 3D Graphic Statics
ZHENG, H., MOOSAVI, V. & AKBARZADEH, M., Oct 2019, *Proceedings of International Association for Shell and Spatial Structures Annual Symposia (IASS).* p. 1023-1024 2 p.

Iterative Pattern Design via Decodes Python Scripts in Grasshopper
Zheng, H., Guo, Z. & Liang, Y., Jun 2019, *"Hello, Culture!" 18th International Conference, CAAD Futures 2019 - Proceedings.* Lee, J. (ed.). p. 526-537 12 p.

Caterpillar: A Gcode Translator in Grasshopper
ZHENG, H., DARWEESH, B., LEE, H. & YANG, L., Apr 2019, *Intelligent & Informed - Proceedings of the 24th International Conference on Computer-Aided Architectural Design Research in Asia (CAADRIA 2019).* Haeusler, M. H., Schnabel, M. A. & Fukuda, T. (eds.). Hong Kong: The Association for Computer-Aided Architectural Design Research in Asia (CAADRIA), Vol. 2. p. 253-262 10 p.

Caterpillar
Zheng, H., Darweesh, B., Lee, H. & Yang, L., Apr 2019, *Intelligent and Informed - Proceedings of the 24th International Conference on Computer-Aided Architectural Design Research in Asia, CAADRIA 2019.* The Association for Computer-Aided Architectural Design Research in Asia (CAADRIA), Vol. 2. p. 253-262 (Intelligent and Informed - Proceedings of the 24th International Conference on Computer-Aided Architectural Design Research in Asia, CAADRIA 2019; vol. 2).Scopus citations: 3

Architectural drawings recognition and generation through machine learning
Huang, W. & Zheng, H., Oct 2018, *Recalibration : on imprecision and infidelity: Proceedings of the 38th Annual Conference of the Association for Computer Aided Design in Architecture, ACADIA 2018.* Anzalone, P., Del Signore, M. & Wit, A. J. (eds.). Association for Computer Aided Design in Architecture (ACADIA), p. 156-165 10 p.Scopus citations: 108

Bio-inspired 3D Printing Experiments
ZHENG, H. & SCHLEICHER, S., May 2018, *Learning, Prototyping and Adapting - Short Papers Proceedings: 2018 CAADRIA, The 23rd International Conference on Computer-Aided Architectural Design Research in Asia.* Huang, W., Williams, M., Luo, D., Wu, Y. & Lin, Y. (eds.). Hong Kong: The Association for Computer-Aided Architectural Design Research in Asia (CAADRIA), p. 65-70 6 p.

Digital Fabrication Using Mixed Reality Technology
ZHENG, H., May 2018, *Learning, Prototyping and Adapting - Short Papers Proceedings: 2018 CAADRIA, The 23rd International Conference on Computer-Aided Architectural Design Research in Asia.* Huang, W., Williams, M., Luo, D., Wu, Y. & Lin, Y. (eds.). Hong Kong: The Association for Computer-Aided Architectural Design Research in Asia (CAADRIA), p. 121-126 6 p.

Drawing with Bots: Human-computer Collaborative Drawing Experiments
ZHENG, H., May 2018, *Learning, Prototyping and Adapting - Short Papers Proceedings: 2018 CAADRIA, The 23rd International Conference on Computer-Aided Architectural Design Research in Asia.* Huang, W., Williams, M., Luo, D., Wu, Y. & Lin, Y. (eds.). Hong Kong: The Association for Computer-Aided Architectural Design Research in Asia (CAADRIA), p. 127-132 6 p.

Soft Rigidity
Zheng, H., Lu, Y. & Li, Y., May 2018, (Presented). 1 p.

Understanding and Visualizing Generative Adversarial Network in Architectural Drawings
ZHENG, H. & HUANG, W., May 2018, *Learning, Prototyping and Adapting - Short Papers Proceedings: 2018 CAADRIA, The 23rd International Conference on Computer-Aided Architectural Design Research in Asia.* Huang, W., Williams, M., Luo, D., Wu, Y. & Lin, Y. (eds.). Hong Kong: The Association for Computer-Aided Architectural Design Research in Asia (CAADRIA), p. 233-238 6 p.

Activities

Architecture + AI: Where the Future Stands
Hao ZHENG (Speaker)
10 Jan 2024

Architecture + AI: Where the Future Stands
Hao ZHENG (Speaker)
9 Jan 2024

Architecture + AI: Where the Future Stands
Hao ZHENG (Speaker)
7 Jan 2024

Architecture + AI: Where the Future Stands
Hao ZHENG (Speaker)
6 Jan 2024

Architecture + AI: Where the Future Stands
Hao ZHENG (Speaker)
4 Jan 2024

Geometry and Topology
Hao ZHENG (Speaker)
28 Dec 2023

Architecture + AI: Where the Future Stands
Hao ZHENG (Speaker)
25 Dec 2023

City + AI: Where the Future Stands
Hao ZHENG (Speaker)
16 Dec 2023

City + AI: Where the Future Stands
Hao ZHENG (Speaker)
14 Dec 2023

Geometry and Topology
Hao ZHENG (Speaker)
6 Dec 2023

Architecture + AI: Where the Future Stands
Hao ZHENG (Speaker)
2 Dec 2023

Architecture + AI: Where the Future Stands
Hao ZHENG (Speaker)
6 Nov 2023

Architecture + AI: Where the Future Stands
Hao ZHENG (Speaker)
3 Nov 2023

Architecture + AI: Where the Future Stands
Hao ZHENG (Speaker)
25 Sept 2023

AI and Robotic Arm Creation Workshop
Hao ZHENG (Speaker)
12 Aug 2023 → 16 Aug 2023

Architecture + AI: Where the Future Stands
Hao ZHENG (Speaker)
26 Jul 2023

Architecture + AI: Where the Future Stands
Hao ZHENG (Speaker)
23 Jul 2023

Architecture + AI: Where the Future Stands
Hao ZHENG (Speaker)
12 Jul 2023

Creative Machine Learning Model(s) For Design
Hao ZHENG (Speaker)
9 Jul 2023

Architectural DigitalFUTURES 2023 Workshop: Creative Machine Learning Model(s) For Design
Hao ZHENG (Speaker)
25 Jun 2023 → 1 Jul 2023

Architecture + AI: Where the Future Stands
Hao ZHENG (Speaker)
25 Jun 2023

Architecture + AI: Where the Future Stands
Hao ZHENG (Speaker)
15 Jun 2023

Creative Machine Learning Model(s) For Design
Hao ZHENG (Speaker)
10 Jun 2023

Geometry and Topology
Hao ZHENG (Speaker)
25 May 2023

Architecture + AI: Where the Future Stands
Hao ZHENG (Speaker)
20 Apr 2023

Creative Machine Learning Model(s) For Design
Hao ZHENG (Speaker)
20 Apr 2023

Architecture + AI: Where the Future Stands
Hao ZHENG (Speaker)
4 Apr 2023

Architecture + AI: Where the Future Stands
Hao ZHENG (Speaker)
2 Apr 2023

Architecture + AI: Where the Future Stands
Hao ZHENG (Speaker)
30 Mar 2023

Creative Machine Learning Model(s) For Design
Hao ZHENG (Speaker)
20 Mar 2023

Creative Machine Learning Model(s) For Design
Hao ZHENG (Speaker)
11 Mar 2023

Creative Machine Learning Model(s) For Design
Hao ZHENG (Speaker)
5 Mar 2023

Architecture + AI: Where the Future Stands
Hao ZHENG (Speaker)
23 Feb 2023

Architecture + AI: Where the Future Stands
Hao ZHENG (Speaker)
17 Feb 2023

Architecture + AI: Where the Future Stands
Hao ZHENG (Speaker)
8 Dec 2022

Architecture + AI: Where the Future Stands
Hao ZHENG (Speaker)
11 Nov 2022

Architecture + AI: Where the Future Stands
Hao ZHENG (Speaker)
5 Nov 2022

ACADIA 2022
Hao ZHENG (Presenter)
1 Nov 2022

Geometry and Topology
Hao ZHENG (Speaker)
29 Sept 2022

Geometry and Topology
Hao ZHENG (Speaker)
4 Jul 2022

AI + Urban Design Methods
Hao ZHENG (Speaker)
26 Jun 2022

Digital Futures 2022
Hao ZHENG (Presenter)
25 Jun 2022

Worlds in the brains of AI
Hao ZHENG (Speaker)
28 May 2022

CAADRIA 2022
Hao ZHENG (Presenter)
12 Apr 2022

Machine Learning in Geometry and Topology
Hao ZHENG (Speaker)
4 Feb 2022

ACADIA 2021
Hao ZHENG (Presenter)
3 Nov 2021

Architecture + AI: Where the Future Stands
Hao ZHENG (Speaker)
9 Oct 2021

IASS 2021
Hao ZHENG (Presenter)
23 Aug 2021

CAAD Futures 2021
Hao ZHENG (Presenter)
16 Jul 2021

Digital Futures 2021
Hao ZHENG (Presenter)
26 Jun 2021

Architecture + AI: Where the Future Stands
Hao ZHENG (Speaker)
13 May 2021

Architecture + AI: Where the Future Stands
Hao ZHENG (Speaker)
9 May 2021

CAADRIA 2021
Hao ZHENG (Presenter)
28 Mar 2021

ACADIA 2020
Hao ZHENG (Presenter)
29 Oct 2020

eCAADe 2020
Hao ZHENG (Presenter)
16 Sept 2020

CAADRIA 2020
Hao ZHENG (Presenter)
6 Aug 2020

Architecture without Architects
Hao ZHENG (Speaker)
27 Jun 2020

Digital Futures 2020
Hao ZHENG (Presenter)
26 Jun 2020

Towards Machine Learning Methods of Architectural Design
Hao ZHENG (Speaker)
26 Apr 2020

Towards Machine Learning Methods of Architectural Design
Hao ZHENG (Speaker)
18 Oct 2019

Towards Machine Learning Methods of Architectural Design
Hao ZHENG (Speaker)
12 Oct 2019

IASS 2019
Hao ZHENG (Presenter)
9 Oct 2019

Digital Futures 2019
Hao ZHENG (Presenter)
8 Jul 2019

CAAD Futures 2019
Hao ZHENG (Presenter)
28 Jun 2019

Towards Machine Learning Methods of Architectural Design
Hao ZHENG (Speaker)
15 Jun 2019

CAADRIA 2019
Hao ZHENG (Presenter)
16 Apr 2019

ACADIA 2018
Hao ZHENG (Presenter)
20 Oct 2018

From Computer-Aided to Computer-Decided
Hao ZHENG (Speaker)
1 Jul 2018

CAADRIA 2018
Hao ZHENG (Presenter)
17 May 2018

Machine Learning for Architects
Hao ZHENG (Speaker)
29 Sept 2017

Soft Rigidity
Hao ZHENG (Speaker)
3 Mar 2017

Tutorial for Python in Architecture
Hao ZHENG (Speaker)
12 Sept 2016

Tutorial for Rhino and Grasshopper
Hao ZHENG (Speaker)
5 Apr 2016

Prizes

Best Presentation - Digital Futures 2019
ZHENG, Hao (Recipient), Jul 2019

Bronze Medal - The 4th Asia-Pacific Informatics Olympiad
ZHENG, Hao (Recipient), May 2010

Excellence Award - The 6th Huacheng Cup Design & Construction Competition
ZHENG, Hao (Recipient), May 2012

Finalist Award (Top 10) - The 1st DADA Digital Future – Digital Construction Design Competition
ZHENG, Hao (Recipient), Aug 2013

Finalist Award (Top 30) - The 3rd zhulong.com National Student Exhibition of Architectural and Environmental
ZHENG, Hao (Recipient), Sept 2014

Final Student Recognition Award - 2017 Berkeley Circus Exhibition
ZHENG, Hao (Recipient), Mar 2017

National Third Prize - The 26th National Olympiad in Informatics
ZHENG, Hao (Recipient), Jul 2009

Provincial and National First Prize - The 15th National Olympiad in Informatics in Provinces
ZHENG, Hao (Recipient), Dec 2009

Provincial and National First Prize - The 16th National Olympiad in Informatics in Provinces
ZHENG, Hao (Recipient), Dec 2010

Student Scholarship Award - ACADIA 2018
ZHENG, Hao (Recipient), Oct 2018

top 5% teachers
ZHENG, Hao (Recipient), 9 Feb 2024

Press/Media

AIGC影响下的AI建筑学
Hao ZHENG
15/02/23
2 Media contributions

ARCHITECTURE + AI: WHERE THE FUTURE STANDS
Hao ZHENG
9/03/21
1 Media contribution

Caterpillar Is a Powerful Rhino Grasshopper Plug-in for Greater Customization in 3D Printing
Hao ZHENG
30/12/18 → 3/05/19
2 items of Media coverage

Natural structures can give rise to stronger, lighter systems
Hao ZHENG
18/07/23
1 item of Media coverage

万字长文，探索建筑智能前沿
Hao ZHENG
28/11/18 → 7/12/21
1 item of Media coverage, 9 Media contributions

专家访谈：数字时代的公共空间与社群治理
Hao ZHENG
17/02/24
1 item of Media coverage

专访郑豪：我们有最先进的设备，最优秀的海归教授，却不一定能做出最好的成果
Hao ZHENG
16/05/23
1 item of Media coverage

参数化与人工智能（从计算机辅助到计算机决策）——同济大学DigitalFuture演讲记录
Hao ZHENG
3/07/18
1 Media contribution

建筑师的机器学习
Hao ZHENG
13/07/17
1 Media contribution

观点 | 建筑+人工智能，未来在何方？
Hao ZHENG
9/03/21 → 12/03/21
3 items of Media coverage, 1 Media contribution