Zikun Deng

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EDUCATION

Zhejiang University

- Computer Science · PhD   State Key Lab of CAD & CG   2018.09 – 2023.06
  - Supervisor: Prof. Yingcai Wu
  - Research: Spatiotemporal Data Analytics, Data Visualization, Smart City

Sun Yat-sen University

- Transportation Engineering · BS   School of Intelligent Systems Engineering   2014.08 – 2018.06

EXPERIENCE

South China University of Technology

- Associate Professor, School of Software Engineering   2023.08 – present

Zhejiang Lab

- Research Intern, Big Data Intelligence Research Center   2019.04 – 2021.04
  - Supervisors: Prof. Yingcai Wu and Prof. Wei Chen

JD Tech

- Research Intern, iCity   2018.04 – 2018.09
  - Supervisors   Prof. Yu Zheng and Dr. Jie Bao

Zhejiang University

- Research Intern, State Key Lab of CAD & CG   2018.01 – 2018.04
  - Supervisor: Prof. Yingcai Wu

PUBLICATIONS

FIRST-AUTHOR

[1] **Z. Deng**, S. Chen, T. Schreck, D. Deng, T. Tang, M. Xu, D. Weng, and Y. Wu. *"Visualizing Large-Scale Spatial Time Series with GeoChron."* IEEE Transactions on Visualization and Computer Graphics, Online, 2023.

[2] **Z. Deng**, S. Chen, X. Xiao, G. Sun, M. Xu, D. Weng, and Y. Wu. *"Multilevel Visual Analysis of Aggregate Geo-Networks."* IEEE Transactions on Visualization and Computer Graphics, Online, 2022.

[3] **Z. Deng**, D. Weng, S. Liu, Y. Tian, M. Xu, and Y. Wu. *"A Survey of Urban Visual Analytics: Advances and Future Directions."* Computational Visual Media, vol. 9, no. 1, pp. 3–39, 2023.

[4] **Z. Deng**, D. Weng, and Y. Wu. *"You are Experienced: Interactive Tour Planning with Crowdsourcing Tour Data from Web."* Journal of Visualization, vol. 26, no. 2, pp. 385–401, 2023.

[5] **Z. Deng**, D. Weng, Y. Liang, J. Bao, Y. Zheng, T. Schreck, M. Xu, and Y. Wu. *"Visual Cascade Analytics of Large-scale Spatiotemporal Data."* IEEE Transactions on Visualization and Computer Graphics, vol. 28, no. 6, pp. 2486–2499, 2022.

[6] **Z. Deng**, D. Weng, X. Xie, J. Bao, Y. Zheng, M. Xu, W. Chen, and Y. Wu. *"Compass: Towards Better Causal Analysis of Urban Time Series."* IEEE Transactions on Visualization and Computer Graphics (Proc. of IEEE VIS 2021), vol. 28, no. 1, pp. 1051–1061, 2022.

[7] **Z. Deng**, D. Weng, J. Chen, R. Liu, Z. Wang, J. Bao, Y. Zheng, and Y. Wu. *"AirVis: Visual Analytics of Air Pollution Propagation."* IEEE Transactions on Visualization and Computer Graphics (Proc. of IEEE VIS 2019), vol. 26, no. 1, pp. 800–810, 2020.

NON-FIRST-AUTHOR

[8] S. Liu, D. Weng, Y. Tian, **Z. Deng**, H. Xu, X. Zhu, H. Yin, X. Zhan, and Y. Wu. *"ECoalVis: Visual Analysis of Control Strategies in Coal-fired Power Plants."* IEEE Transactions on Visualization and Computer Graphics (Proc. of IEEE VIS 2022), vol. 29, no. 1, pp. 1091–1101, 2023.

[9] Y. Wang, H. Liang, X. Shu, J. Wang, K. Xu, **Z. Deng**, C. Campbell, B. Chen, Y. Wu, and H. Qu. *"Interactive Visual Exploration of Longitudinal Historical Career Mobility Data."* IEEE Transactions on Visualization and Computer Graphics, vol. 28, no. 10, pp. 3441–3455, 2022.

[10] D. Weng, C. Zheng, **Z. Deng**, M. Ma, J. Bao, Y. Zheng, M. Xu, and Y. Wu. *"Towards Better Bus Networks: A Visual Analytics Approach."* IEEE Transactions on Visualization and Computer Graphics (Proc. of IEEE VIS 2020), vol. 27, no. 2, pp. 817–827, 2021.

[11] Y. Wu, D. Weng, **Z. Deng**, J. Bao, M. Xu, Z. Wang, Y. Zheng, Z. Ding, and W. Chen. *"Towards Better Detection and Analysis of Massive Spatiotemporal Co-occurrence Patterns."* IEEE Transactions on Intelligent Transportation Systems, vol. 22, no. 6, pp. 3387–3402, 2022.

[12] D. Weng, R. Chen, **Z. Deng**, F. Wu, J. Chen, and Y. Wu. *"SRVis: Towards Better Spatial Integration in Ranking Visualization."* IEEE Transactions on Visualization and Computer Graphics (Proc. of IEEE VIS 2018), vol. 25, no. 1, pp. 459–469, 2019.

AWARDS

- Outstanding Graduate Student of Zhejiang University — 2023
- National Scholarship — 2015 & 2022
- Luzengyong CAD & CG High Tech Award — 2022
- Style 3D Fellowship — 2021
- Zhejiang University Doctoral Scholarship — 2018
- Merit Graduate Student of Zhejiang University — 2019 & 2022

SERVICE

Peer Reviewer

- IEEE Transactions on Visualization and Computer Graphics
- IEEE VIS 2020, 2021, 2022, 2023
- ACM CHI, 2024
- PacificVis 2024
- Journal of Visualization
- ChinaVis 2020, 2022

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