KE LI

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EDUCATION

ShanghaiTech University, China& Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences, China *September 2018 - Present*
Master in Computer Science under supervision of Qifeng Liao
School of Information Science and Technology

Chongqing University, China *September 2014 - May 2018*
Bachelor of Applied Mathematics, Honor Track.

RESEARCH INTERESTS

Deep learning

Domain decomposition method

Numerical method for PDEs

Uncertainty quantification

PUBLICATIONS

1. **Ke Li***, Kejun Tang*, Jinglai Li, Tianfan Wu, Qifeng Liao. "A hierarchical neural hybrid method for failure probability estimation". IEEE Access 7, 112087-112096.
2. **Ke Li***, Kejun Tang*, Tianfan Wu, Qifeng Liao. "D3M : A deep domain decomposition method for solving PDEs parallelly". arXiv preprint arXiv:1909.12236.

   * Equal contributions

HONORS AND AWARDS

Outstanding graduates award of Chongqing University in 2018.

The third price scholarship in Spring 2017.

The third price scholarship in Autumn 2017.

INVITED PRESENTATIONS

1. K. Li*, Q. Liao. A Hierarchical Neural Hybrid Method for Failure Probability Estimation. SIAM Conference on Uncertainty Quantification (UQ20), Garching, German, March 24 – 27, 2020.
2. Q. Liao*, K. Li. Flow-based domain-decomposed approach for failure probability estimation with high-dimensional random inputs. SIAM Conference on Uncertainty Quantification (UQ20), Garching, German, March 24 – 27, 2020.
3. K. Li*. D3M : A deep domain decomposition method for solving PDEs parallelly. Annual meeting of China Society of Industrial and Applied Mathematics(CSIAM), September 19 – 22, 2019.

   * Speaker

CONTRIBUTED TALKS

1. K. Li*. D3M : A deep domain decomposition method for solving PDEs parallelly. Annual meeting of China Society of Computational Mathematics(CSCM), July 31 – August 4, 2019.

   * Speaker

PROFESSIONAL SERVICE

Member : Society for Industrial and Applied Mathematics
China Society of Industrial and Applied Mathematics
The Institute of Electrical and Electronics Engineers

PROGRAMMING SKILL

Matlab, Python, Tensorflow, Pytorch, LaTeX