Shuai JIANG

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Ph.D. Student @ Hunan University, Changsha, China

OBJECTIVE

Seeking a challenging position in [your field] to leverage my expertise in [your key skills]. Aiming to contribute to innovative projects at the intersection of [your interests] and practical problem-solving in fields such as [specific areas of interest].

EDUCATION

- **Hunan University** *Sept. 2023 - Jun. 2027*
  Ph.D. in Control Science and Engineering Changsha, China
  ◦ Lab: National Engineering Research Center for Robot Visual Perception and Control Technology, China.
  ◦ Research Interest: Industrial Automation, Computer Vision, Multimodal Learning.

- **Xiangtan University** *Sept. 2020 - Jun. 2023*
  M.E. in Electronic Information Xiangtan, China
  ◦ Lab: Key Laboratory of Intelligent Computing and Information Processing, Ministry of Education of China.
  ◦ Thesis: Research on Joint Segmentation of Foveal Avascular Zone and Retinal Vessel in OCTA Images.
  ◦ Rank: Top 1 of 70.

- **Xiangtan University** *Sept. 2016 - Jun. 2020*
  B.E. in Network Engineering Xiangtan, China

PUBLICATIONS AND PATENTS J=JOURNAL, C=CONFERENCE, P=PATENT, *=CORRESPONDING AUTHOR

3.1 111

[J.5] **S. Jiang**, M. Liu* (Advisor), Y. Liu, Y. Ma, and Y. Wang. Resilient Multimodal Industrial Surface Defect Detection with Uncertain Sensors Availability

[J.4] **S. Jiang**, M. Liu* (Advisor), Y. Liu, Y. Ma, and Y. Wang. Category-agnostic Cluster-guided Selective Suppression for Weakly Supervised Surface Defect Localization. *IEEE Trans. Instrum. Meas. (T-IM)*. 2025. [PDF] [Code]

[J.3] **S. Jiang**, K. Hu* (Advisor), Y. Zhang, and X. Gao. Joint Segmentation of FAZ and RVs in OCTA Images with Auxiliary 3D Image Projection Learning. *IEEE Trans. Instrum. Meas. (T-IM)*. 2025. [PDF] [Code]

[J.2] K. Hu* (Advisor), **S. Jiang**, Y. Zhang, X. Li, and X. Gao. Joint-Seg: Treat Foveal Avascular Zone and Retinal Vessel Segmentation in OCTA Images as a Joint Task. *IEEE Trans. Instrum. Meas. (T-IM)*. 2022. [PDF] [Code]

[J.1] K. Hu* (Advisor), **S. Jiang**, D. Liu, and X. Gao. Segmentation of Retinal Layer Boundary in OCT Images Based on End-to-end Deep Neural Network and Graph Search. *J. Softw. (in Chinese)*. 2023. [PDF]

[S.2] Y. Ma, M. Liu* (Advisor), **S. Jiang**, X. Wang, Y. Bian, and Y. Wang. Multi-Context Aggregation Network with Foreground Correction for Automated Few-Shot Defect Segmentation. *IEEE Trans. Autom. Sci. Eng. (T-ASE)*. 2025. (Under Review)

[S.4] J. Zhou, M. Liu* (Advisor), Y. Ma, **S. Jiang**, and Y. Wang. Multi-View Attention Guided Feature Learning for Unsupervised Surface Defect Detection. *IEEE/ASME Trans. Mechatron. (T-Mech)*. 2025.

[J.5] Neural Architecture Search-based Detection Method and System for Aero-engine Blade Surface Defects

[J.5] Y. Liu, Y. Tang, M. Liu* (Advisor), **S. Jiang**, Y. Ma, and Y. Wang. NAS-SDS: Neural Architecture Search for Surface Defect Segmentation. *IEEE Trans. Autom. Sci. Eng. (T-ASE)*. 2025.

[S.3] Y. Ma, M. Liu* (Advisor), **S. Jiang**, J. Zhou, Y. Bian, and Y. Wang. Efficient Feature Coupling for Industrial Few-shot Defect Segmentation. *IEEE/ASME Trans. Mechatron. (T-Mech)*. 2025. (Under Review)

[P.1] M. Liu (Advisor), **S. Jiang**, Y. Liu, Y. Ma, X. Cheng, Y. Wang. A weakly supervised learning based method for defect detection of aircraft engine blades. China National Intellectual Property Administration, Patent No. CN202411525360.3. Registration Date: 2024.10.30, Grant Date: 2024.11.29, Publication Date: 2025.01.03.

HONORS AND AWARDS

- **Excellent Graduates** *May 2023*
  Hunan Provincial Department of Education, China
- **Excellent Graduates** *May 2023*
  Xiangtan University
- **Principal Scholarship** *Apr. 2023*
  Xiangtan University
- **China National Scholarship** *Sept. 2022*
  Ministry of Education of the People's Republic of China
- **Special Scholarship** *Oct. 2022/2021*
  Xiangtan University