

# SOTA methods with code

Title	Venue	Date	Code	topic
 Star 149 <a href="#">Anomaly Detection via Reverse Distillation from One-Class Embedding</a>	CVPR	2022	<a href="#">Github</a>	Teacher-Student
 Star 93 <a href="#">Revisiting Reverse Distillation for Anomaly Detection</a>	CVPR	2023	<a href="#">Github</a>	Teacher-Student
 Star 321 <a href="#">SimpleNet: A Simple Network for Image Anomaly Detection and Localization</a>	CVPR	2023	<a href="#">Github</a>	One-Class-Classification
 Star 215 <a href="#">Real-time unsupervised anomaly detection with localization via conditional normalizing flows</a>	WACV	2022	<a href="#">Github</a>	Distribution Map
 Star 32 <a href="#">PyramidFlow: High-Resolution Defect Contrastive Localization using Pyramid Normalizing Flow</a>	CVPR	2023	<a href="#">Github</a>	Distribution Map
 Star 615 <a href="#">Towards total recall in industrial anomaly detection</a>	CVPR	2022	<a href="#">Github</a>	Memory-bank
 Star 19 <a href="#">PNI: Industrial Anomaly Detection using Position and Neighborhood Information</a>	ICCV	2023	<a href="#">Github</a>	Memory-bank
 Star 167 <a href="#">Draem-a discriminatively trained reconstruction embedding for surface anomaly detection</a>	ICCV	2021	<a href="#">Github</a>	Reconstruction-based
 Star 33 <a href="#">DSR: A dual subspace re-projection</a>	ECCV	2022	<a href="#">Github</a>	Reconstruction-based

Title	Venue	Date	Code	topic
<a href="#">network for surface anomaly detection</a>				
 Star <span>28</span> <a href="#">Omni-frequency Channel-selection Representations for Unsupervised Anomaly Detection</a>	TIP	2023	<a href="#">Github</a>	Reconstruction-based
 Star <span>73</span> <a href="#">RealNet: A Feature Selection Network with Realistic Synthetic Anomaly for Anomaly Detection</a>	CVPR	2024	<a href="#">Github</a>	Reconstruction-based
 Star <span>246</span> <a href="#">Registration based few-shot anomaly detection</a>	ECCV	2022	<a href="#">Github</a>	Few Shot
 Star <span>521</span> <a href="#">AnomalyGPT: Detecting Industrial Anomalies using Large Vision-Language Models</a>	AAAI	2024	<a href="#">Github</a>	Few Shot
 Star <span>66</span> <a href="#">Catching Both Gray and Black Swans: Open-set Supervised Anomaly Detection</a>	CVPR	2022	<a href="#">Github</a>	Few abnormal samples
 Star <span>63</span> <a href="#">Explicit Boundary Guided Semi-Push-Pull Contrastive Learning for Supervised Anomaly Detection</a>	CVPR	2023	<a href="#">Github</a>	Few abnormal samples
 Star <span>60</span> <a href="#">Deep one-class classification via interpolated gaussian descriptor</a>	AAAI	2022	<a href="#">Github</a>	Noisy AD
 Star <span>28</span> <a href="#">SoftPatch: Unsupervised Anomaly Detection with Noisy Data</a>	NeurIPS	2022	<a href="#">Github</a>	Noisy AD

Title	Venue	Date	Code	topic
 Star  5 <a href="#">Inter-Realization Channels: Unsupervised Anomaly Detection Beyond One-Class Classification</a>	ICCV	2023	<a href="#">Github</a>	Noisy AD
 Star  30 <a href="#">Unsupervised Continual Anomaly Detection with Contrastively-learned Prompt</a>	AAAI	2024	<a href="#">Github</a>	Continual AD
 Star  207 <a href="#">A Unified Model for Multi-class Anomaly Detection</a>	NeurIPS	2022	<a href="#">Github</a>	Multi-class unified
 Star  19 <a href="#">Hierarchical Vector Quantized Transformer for Multi-class Unsupervised Anomaly Detection</a>	NeurIPS	2023	<a href="#">Github</a>	Multi-class unified
 Star  113 <a href="#">Multimodal Industrial Anomaly Detection via Hybrid Fusion</a>	CVPR	2023	<a href="#">Github</a>	RGBD
 Star  68 <a href="#">Real3D-AD: A Dataset of Point Cloud Anomaly Detection</a>	NeurIPS	2023	<a href="#">Github</a>	Point Cloud
 Star  3k <a href="#">Anomalib: A Deep Learning Library for Anomaly Detection</a>	ICIP	2022	<a href="#">Github</a>	Benchmark
 Star  65 <a href="#">IM-IAD: Industrial Image Anomaly Detection Benchmark in Manufacturing</a>	TCYB	2024	<a href="#">Github</a>	Benchmark
 Star  27 <a href="#">AnoVL: Adapting Vision-Language Models for Unified Zero-shot Anomaly Localization</a>	arxiv	2023	<a href="#">Github</a>	Zero Shot
 Star  634 <a href="#">Segment Any Anomaly without Training via</a>	arxiv	2023	<a href="#">Github</a>	Zero Shot

Title	Venue	Date	Code	topic
<a href="#">Hybrid Prompt Regularization</a>				
<div><div> Star</div><div> 9</div></div> <a href="#">UniFormaly: Towards Task-Agnostic Unified Framework for Visual Anomaly Detection</a>	arxiv	2023	<a href="#">Github</a>	Multi-class unified