# 综述

## [Arxiv 2022] Fairness testing: A comprehensive survey and analysis of trends 公平性测试综述

## [Arxiv 2022] Bias mitigation for machine learning classifiers: A comprehensive survey

## [CSUR2021] A survey on bias and fairness in machine learning

## [软件学报] 深度学习模型中的公平性研究

## [计算机研究与发展] 面向深度学习的公平性研究综述

## Fairness-Aware Machine Learning Engineering: How Far Are We?

# 公平性问题的检测

# 公平性问题的定位和修复

## [ICSE 2024] Fairness Improvement with Multiple Protected Attributes: How Far Are We?

## [Arxiv 2023] An Empirical Study on Fairness Improvement with Multiple Protected Attributes

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## [ICSE 2021] Ignorance and Prejudice" in Software Fairness

## [FSE 2021] Fairea: a model behaviour mutation approach to benchmarking bias mitigation methods

## [FSE 2021] Bias in machine learning software: Why? How? What to do?

## [ISSTA 2021] Efficient white-box fairness testing through gradient search

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## [ASE 2020] Making Fair ML Software using Trustworthy Explanation

## [FSE 2020] Fairway: a way to build fair ML software

## [ICSE 2020] White-box fairness testing through adversarial sampling

## [2019] Software Engineering for Fairness: A Case Study with Hyperparameter Optimization

## [FSE 2019]Black box fairness testing of machine learning models

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##[2019] AI fairness 360: An extensible toolkit for detecting and mitigating algorithmic bias

## [FSE 2018] Themis: Automatically testing software for discrimination

## [FSE 2017] Fairness testing: Testing software for discrimination

# 一些比较活跃的研究人员

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# 可能的研究问题

## 新的场景 （公平性问题的检测、定位和修复）

## Oracle问题

## 多个sensitive attributes的影响

## test input generation 转化成多目标优化问题 同时优化模型性能和公平性问题

## 考虑回归测试的一些工作，尝试做test input的优化（包括selection、reduction、prioritization和augmentation）