唐宇田

助理教授、研究员、博导

信息科学与技术学院
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总体介绍

唐宇田教授于 2013 年于吉林大学计算机科学与技术学院获学士学位，师从黄岚副院长。之后赴香港理工大学深造学习，于 2018 年获香港理工大学计算学系博士学位，师从罗夏朴副教授、梁金能副教授。2018-2020 年在香港理工大学担任博士后研究员。之后加入上海科技大学担任助理教授、博士生导师、研究员。唐宇田教授在软件工程、系统安全领域发表 20 余篇。此外，他还担任众多国际知名期刊审稿专家、会议、基金评审专家。

研究兴趣与专长

程序分析, 安卓系统, 系统安全, 大规模软件挖掘, 经验软件工程, 模糊测试

教育背景

2013.8-
2018.9
哲学博士学位, 香港理工大学电子计算学系，中国香港

指导教授 ○ 罗夏朴副教授, Hareton Leung 副教授

2009.9-
2013.6
学士学位, 吉林大学，计算机科学与技术学院，吉林，中国

指导教授 ○ 黄岚教授，副院长

工作经历

2020.10-至今 **助理教授、研究员、博士生导师**, 上海科技大学，信息科学与技术学院，中国上海

2018.11-
2020.05 **博士后研究员**, 香港理工大学, 中国香港

| 2017.08-2018.05 | **兼职研究助理**, 香港理工大学, 中国香港 |

所报告的安全漏洞及补丁

| CVE | No. CVE-2020-27057 |
| AndroidID | No. 128919672 |

研究经费

2020.10-2026.10	"Early career research fund (No.2020F0203-000-14)", 上海科技大学, 经费: 3,000,000 人民币
2021.10-2023.09	"基于大数据的移动应用恶意成分检测 (No.21PJ1410700)", 上海市浦江人才计划, 上海市科委, 经费: 300,000 人民币
2018.01-2020.12	"Improving Mobile Users'Privacy Decisions via Exposing Unexpected Sensitive Operations in Hardened Apps",Research Grants Council GRF, Hong Kong, 经费: 416,667 港币; 参见 `https://cerg1.ugc.edu.hk/cergprod/scrrm00542.jsp?proj_id=15222317`
2018.03-2020.05	"Research and Development of An Advanced IPS System for Aftermarket Telematics;",Innovation and Technology Fund (ITF), Hong Kong, 经费: 2,386,066 港币 (包括来自 ITF 的 1,899,340 港币和公司资助的 486,726 港币);

论文出版

总结	ESEC/FSE (1); ASE (2); IEEE TSE (2); IEEE TReli (1); SANER (3); ICPC (2); ISSRE (2); JSS (2); IST (2); JCST (1)
	JCR-Q1 (8), CCF-A (5), CCF-B(12), Core-A(8)
TSE'21b	**Yutian Tang**, Hao Zhou, Xiapu Luo, Ting Chen, Haoyu Wang, Zhou Xu, and Yan Cai, "XDebloat: Towards Automated Feature-Oriented App Debloating", *IEEE Transactions on Software Engineering,* CCF-A 软件领域顶级期刊;
TReli'21	Kunsong Zhao, Zhou Xu, Tao Zhang, **Yutian Tang**, "Simplified Deep Forest Model based Just-In-Time Defect Prediction for Android Mobile Apps", *IEEE Transactions on Reliability* JCR-Q1;
SAC'21	Kunsong Zhao, Zhou Xu, Meng Yan, **Yutian Tang**, Ming Fan, Gemma Catolino, "Just-in-Time Defect Prediction for Android Apps via Imbalanced Deep Learning Model", *The 36th ACM/SIGAPP Symposium On Applied Computing*

TSE'21a **Yutian Tang***, Haoyu Wang, Xian Zhan, Xiapu Luo*, Yajin Zhou, Hao Zhou, Qiben Yan, Yulei Sui, Jacky Keung, "A Systematical Study on Application Performance Management Libraries for Apps", *IEEE Transactions on Software Engineering,* CCF-A 软件领域顶级期刊, JCR-Q1; IF=6.112;

IST'20 Zhou Xu, Tao Zhang, Jacky Keung, Meng Yan, Xiapu Luo, Xiaohong Zhang, Ling Xu, **Yutian Tang**,"Feature Selection and Embedding Based Cross Project Framework for Identifying Crashing Fault Residence"*Information and Software Technology (IST), CCF-B,*JCR-Q1;

ASE'20 Hao Zhou, Haoyu Wang, Yajin Zhou, Xiapu Luo, **Yutian Tang**, Lei Xu, Ting Wang, "Demystifying Diehard Android Apps", *35th IEEE/ACM International Conference on Automated Software Engineering (ASE)* Core A,CCF-A, 软件领域顶级会议;

QRS'20 Kunsong Zhao, Zhou Xu, Tao Zhang, **Yutian Tang**, "Simplified Deep Forest Model based Just-In-Time Defect Prediction for Android Mobile Apps", *20th International Conference on Software Quality, Reliability, and Security (QRS)* CCF-C;

ESEC/FSE'20 **Yutian Tang**, Yulei Sui, Haoyu Wang, Xiapu Luo, Hao Zhou, Zhou Xu, "All Your App Links (are) Belong to Us: Understanding the Threats of Instant Apps based Attacks",*The ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE),* Core A,CCF-A, 软件领域顶级会议, the vulnerability reported is confirmed by Google;

arXiv'20 **Yutian Tang**, Hao Zhou, Zhou Xu, Xiapu Luo, Yan Cai, and Tao Zhang, "Feature Location Benchmark for Decomposing and Reusing Android Apps",*In arXiv, 2020 2005.04008*;

SANER'20 Yan Cai, **Yutian Tang**, Haicheng Li, Le Yu, Hao Zhou, Xiapu Luo, Liang He, Purui Su, "Resource Race Attacks on Android", *27th IEEE International Conference on Software Analysis, Evolution and Reengineering (SANER)*, CCF-B, the vulnerability reported is confirmed by Google;

ASE'19 **Yutian Tang**, Xian Zhan, Hao Zhou, Xiapu Luo, Zhou Xu, Yajin Zhou, Qiben Yan, "Demystifying Application Performance Management Libraries for Android", *The 34th IEEE/ACM International Conference on Automated Software Engineering (ASE)*, CCF-A, Core-A, 软件领域顶级会议;

JSS'19   Zhou Xu, Shuai Li, Jun Xu, Jin Liu, Xiapu Luo, Yifeng Zhang, Tao Zhang, Jacky Keung, **Yutian Tang**, "LDFR: Learning deep feature representation for software defect prediction",Journal of Systems and Software (JSS), JCR-Q1;

QRS'19   Zhou Xu, Sizhe Ye, Tao Zhang, Zhen Xia, Shuai Pang, Yong Wang, **Yutian Tang**,"MVSE: Effort- Aware Heterogeneous Defect Prediction via Multiple-View Spectral Embedding", 19th International Conference on Software Quality, Reliability, and Security (QRS), CCF-C;

ISSRE'19   Zhou Xu, Shuai Pang, Yifeng Zhang, **Yutian Tang**, Jin Liu, Xiapu Luo, Jacky Keung, Xiaohui Cui,"Identifying Crashing Fault Residence Based on Cross Project Model",International Symposium on Software Reliability Engineering (ISSRE),CCF-B, Core-A;

JCST'19   Zhou Xu, Shuai Pang, Tao Zhang, Xiapu Luo, **Yutian Tang**, Xiao Yu, Lei Xue,"Cross Project Defect Prediction via Balanced Distribution Adaptation based Transfer Learning",Journal of Computer Science and Technology (JCST),CCF-B;

JSS'19   Zhou Xu, Shuai Li, Xiapu Luo, Jin Liu, Tao Zhang, **Yutian Tang**, Jun Xu, Peipei Yuan, Jacky Keung,"TSTSS: A Two-Stage Training Subset Selection Framework for Cross Version Defect Prediction",Journal of System and Software (JSS), CCF-B, JCR-Q1;

SANER'19   Xian Zhan, Tao Zhang, **Yutian Tang**,"A Comparative Study of Android Repackaged Apps Detection Techniques", 2019 IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER), CCF-B;

IST'18   Zhou Xu, Jin Liu, Xiapu Luo, Zijiang Yang, Yifeng Zhang, Peipei Yuan, **Yutian Tang**, Tao Zhang, "Software Defect Prediction Based on Kernel PCA and Weighted Extreme Learning Machine",Information and Software Technology (IST), CCF-B, JCR-Q1;

ISSRE'18   Xuejiao Zhao, Hongwei Li, **Yutian Tang**, Dongjing Gao, Lingfeng Bao, Chinghung Lee,"A Smart Context-aware Program Assistant based on Dynamic Programming Event Modeling",The 29th IEEE International Symposium on Software Reliability Engineering (ISSRE), CCF-B, Core-A, Best Industrial Paper Award;

ICPC'18 Zhou Xu, Shuai Li, **Yutian Tang**, Xiapu Luo, Tao Zhang, Jin Liu, Jun Xu,"Cross Version Defect Prediction with Representative Data via Sparse Subset Selection",26th IEEE/ACM International Conference on Program Comprehension (ICPC), CCF-B, Core-B;

ICPC'17 **Yutian Tang**, Hareton Leung,"Constructing Feature Model by Identifying Variability-aware Modules", 25th IEEE/ACM International Conference on Program Comprehension (ICPC), CCF-B;

SANER'17 **Yutian Tang**, Hareton Leung,"StiCProb: A Novel Feature Mining Approach using Conditional Probability", 24th IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER), CCF-B;

SOFTENG'15 **Yutian Tang**, Hareton Leung,"Feature Mining for Product Line Construction", The First International Conference on Advances and Trends in Software Engineering (SOFTENG);

ICEIS'15 **Yutian Tang**, Hareton Leung,"A Top-down Feature Mining Framework for Software Product Line", 17th International Conference on Enterprise Information Systems (ICEIS);

新闻采访及媒体报道

中国之声 21/8/2021 – **中央广电总台中国之声采访**; [详见 https://mp.weixin.qq.com/s/glvaDNdsAAXrdAn9imDgnQ]

教学经历

课程讲师 CS132 **软件工程**, 上海科技大学; 2021 (**春，秋**) (**本科课程**), (**中英双语教学**);
课程讲师 CS224 **程序分析**, 上海科技大学 2022 (**春**) (**研究生课程**), (**中英双语教学**);

获奖及奖学金

2020 **上海市浦江人才计划**

2018 **最佳工业论文奖软件可靠性工程国际会议**, **论文题目**: "A Smart Context-aware Program Assistant based on Dynamic Programming Event Modeling"

2013-2017 **香港理工大学博士奖学金**

2012 **吉林大学，本科生研究奖一等奖**

2012 **吉林大学二等奖学金**

2011 **吉林大学三等奖学金**

学生指导

指导博士研究生 2 人，硕士研究生 3 人，本科生 6 人。

学术服务

基金审稿专家

基金审稿专家 上海中小企业创新项目通讯评审

国际会议程序委员会评审委员

会议评审专家 **Artefact Evaluation Program Committee, International Conference on Software Engineering (ICSE)**, 2022;

会议评审专家 **Artefact Evaluation Program Committee, The ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE)**, 2021;

会议评审专家 **CCF Chinasoft Conference (ChinaSoft) – Software & Data Intelligence Track**, 2021;

期刊审稿人

审稿专家 **IEEE Transactions on Dependable and Secure Computing;**

审稿专家 **Journal of Computer Security;**

审稿专家 **IEEE Transactions on Reliability;**

审稿专家 **Frontier of Computer Science;**

审稿专家 **SN Applied Sciences;**

审稿专家 **Scientific Programming;**

审稿专家 **SCIENCE CHINA Information Sciences;**

审稿专家 **IEEE Access;**

审稿专家 **Security and Communication Networks;**

审稿专家 IEEE Transactions on Services Computing, IEEE Transactions on Biometrics, Behavior and Identity Science

会议特邀嘉宾

会议特邀嘉宾 The 12th International Conference on Advanced Infocomm Technology;

专业、技术任职

2012-至今 **中级软件工程师**, "中国软件工程师资格考试"

2017-至今 国际安全学会 ISACA 会员

2017-至今 国际电气工程师学会会员

2017-至今 香港软件工程学会会员

2020-至今 欧洲系统与软件工程师学会会员

2020-至今 中国软件工程学会会员

──── 会议报告及受邀报告

复旦大学 "Demystifying Application Performance Management Libraries for Android", 8/4/2021, **学术报告**

上海科技大学 "System Security, Are We There Yet?", 6/11/2020, **学术报告**;

主旨演讲 The 12th International Conference on Advanced Infocomm Technology(2020)

上海科技大学 "Android, Don't Lie to Me", **学术报告**

英国女王大学贝尔法斯特 "Android, Don't Lie to Me", **学术报告**

英国东伦敦大学 "Android, Don't Lie to Me", **学术报告**

英国邓迪大学 "Android, Don't Lie to Me", **学术报告**

英国中央兰开夏大学 "Android, Don't Lie to Me", **学术报告**

新西兰肯特伯雷大学 "Android, Don't Lie to Me", **学术报告**

ESEC/FSE'20 "All Your App Links are Belong to Us: Understanding the Threats of Instant Apps based Attacks",, in *The ACM Joint European Software Engineering Conference and Symposium on the Fundations of Software Engineering* **会议报告**

同济大学 "All Your App Links are Belong to Us: Understanding the Threats of Instant Apps based Attacks", **青年论坛学术报告**

ASE'19 "Demystifying Application Performance Management Libraries for Android,", in *34th IEEE/ACM International Conference on Automated Software Engineering*, 会议报告

SANER'17 "StiCProb: A Novel Feature Mining Approach Using Conditional Probability", in *Proceedings of 24th IEEE International Conference on Software Analysis, Evolution, and Reengineering*, 会议报告

ICPC'17 "Constructing Feature Model by Identifying Variability-aware Modules", *IEEE/ACM International Conference on Program Comprehension*, 会议报告

SOFTENG'15 "Feature Mining for Product Line Construction", *The First International Conference on Advances and Trends in Software Engineering*, 会议报告

ICEIS'15 "Top-down Feature Mining Framework for Software Product Line," *Proceedings of the International Conference on Enterprise Information System*, 会议报告