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**
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

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