nju-thesis

Projects

分类	主题	资料	状态	备注
TLA+ Theory	TLA Liveness + Symmetry Reduction	symmetry	毕设 (研究生)	
TLA+ Theory	TLA+ Spec debugging 实证研究			
TLA+ Practice	Concurrent SCC	parvmor / googlesummerofcode18; contribution; SCC:PPOPP2016; SCC:ICECCS2016	毕设 (研究生)	
TLA+ Practice	MC on GPU			
TLA+ Tools	Official	contribution		解决 Issues
TLA+ Tools	TLC Debugger	Interactive TLA+		VSCode
TLA+ Tools	Animation	ShiViz; tla-develop		例子: TCS/Consensus
TLA+ Tools	DistributedTLC + Aliyun	tlc-distributed; cloudtlc	毕设 (本科生)	
TLA+ Tools	TraceStore; Script-driven			SQL; CSV/JSON
TLA+ Tools	IDE for TLA+	vscode-tlaplus		解决 Issues
DC Theory	SMT for Checking Transactional Consistency	Cobra; Complexity	毕设 (研究生)	

分类	主题	资料	状态	备注
DC Practice	(TLA+) Visualization of Consensus Protocols	Paxos/Raft	毕设 (本科生)	
DC Practice	Evaluation Platform for TCC Protocols	TIS Book; TCS; Evaluation:VLDB2017; deneva	毕设 (本科生)	
Compilers	visualgo for Compilers	编译系统透视; visualgo	毕设 (本科生)	词法/语法/语义/代码生成/运行时
Compilers	TLA+/TLAPS in HTML	tla-html	毕设 (本科生)	
Compilers	TLA+ => C/C++/Java ...	pgo	毕设	
Compilers	OJ System for Compilers			
Compilers	Compiler for LaTeX `algorithmicx`	algorithmicx		
Compilers	IDE for `tikz`	tikz@overleaf		
TLA+ Examples	Raft with Recovery			
TLA+ Examples	Zab 及其精化	zab	黄彬寓	
TLA+ Examples	DynaStore	DynaStore@JACM2011		
TLA+ Examples	Cure	Manuel		
TLA+ Examples	UniStore	Manuel		
TLA+ Examples	All Classic Protocols for DC Courses			

分类	主题	资料	状态	备注
MC-Testing	QuorumSystem 的 TLC 优化			
MC-Testing	DFS + BFS; Property-Guided MC			
MC-Testing	MC-Guided Testing of Impl.			
MC-Testing	Model-based Trace Checking	tla-mongodb; vldb2020; Kayfabe		

Ongoing Projects (2022)

- 2020-master-se

Finished Projects

2021

- Deneva-TCS by Xiao-Jiang@cs:bachelor
- Deneva-DSI by Wang-Teng@cs:bachelor
- MongoDB-ReplicaSet-Jepsen by Dai-Ruoshi@cs:bachelor
- MongoDB-WiredTiger-TLA by Kuang-Shulei@cs:bachelor
- TCS-TLA by Li-Xiang@se:bachelor

2020

- MongoDB-CausalConsistency-Jepsen by Ouyang-Hongrong@cs:bachelor

2019

- Jupiter-TLA by Tang-Ruize@cs:bachelor
- CRDT-TLA by Wang-Zhifu@cs:bachelor

2018

- OT-TLA by Ji-Ye@cs:bachelor