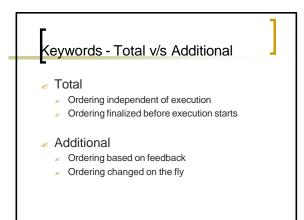
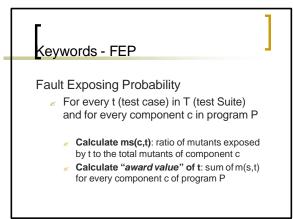
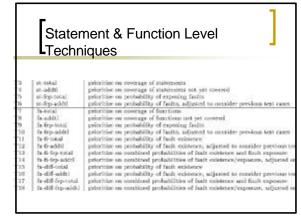


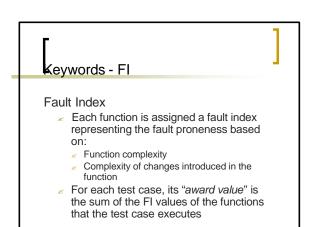
	Stater Techn	nent & Function Level iques
0 7 7 7 7 7 7 7 7 7 7 7 7	st-total st-addil st-Rep-total st-Rep-addti	prioritise on overage of ataloments prioritise on coverage of ataloments so, yet covered prioritise on probability of exposing faults prioritise on probability of Hadia, adjusted to cossider presions test cases.
3	fa-total	prioritize on coverage of functions
8	fa-addt) fa-fep-total	prioritize on coverage of functions not yet covered prioritize on probability of expansing facility
140	fa-fep-addtl	prioritize on probability of faults, adjusted to consider previous test cases
11	fe-fi-total	prioritize on probability of fault existence
19	h-6-addu	prioritize on probability of fault existence, adjusted to counider previous to
10 11 12 13	In-fi-fep-total	prioritize on combined probabilities of fault existence and fault exposure
14	fs-fi-Sep-addrl	prioritize on combined probabilities of fault existence/esposure, adjusted of
15	fa-diff-total	prioritize on probability of fault existence
16	h-dif-addt)	prioritize on probability of fault existence, adjusted to consider previous to
17	h-dif-fep-total	prioritize on combined probabilities of fault existence and fault exposure
18	fa-diff-fep-addkl	prioritize on combined probabilities of fault existence/mposure, adjusted e



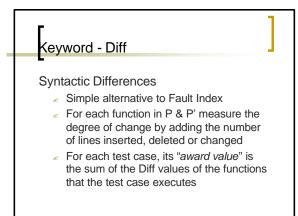
	Stater Techn	nent & Function Level
3 4 5 6	st-total st-addti st-fep-total st-fep-addti	prioritize on coverage of automents prioritize on coverage of automents not yet covered prioritize on probability of exposing faults unforcitize on probability of faults, adjusced to consider previous test cases.
7	fa-total	prioritize on coverage of functions
8	In eddt) In fep-total	prioritize on coverage of functions not yet covered prioritize on probability of expansing faults
10	fr-fep-addtl	prioritize on probability of faults, adjusted to consider previous test cases
11	fe-fi-total	prioritize on probability of fault existence
12	field-addsl	prioritize on probability of fault existence, adjusted to counider previous ter
13	In-fi-Sep-total	printitize on combined probabilities of fault existence and fault supersure
14	fs-fi-Sep-arkirl	prioritize on combined probabilities of fault existence/expasure, adjusted or
15	fa-diff-total fa-diff-addt1	prioritize on probability of fault existence
16	h-dif-fep-total	prioritize on probability of fault existence, adjusted to consider previous to prioritize on combined probabilities of fault existence and fault exposure
	n-du-op-optic	prioritize on combined probabilities of fault existence and fault exposure prioritize on combined probabilities of fault existence/enposure, adjusted or





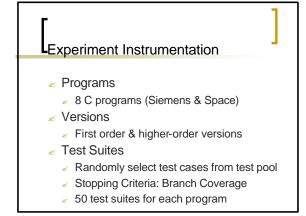


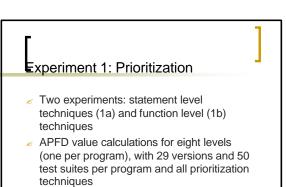
	Stater	nent & Function Level
	Techn	iques
3	Interestal	prioritize on coverage of statements
16	st-addti	prioritize on coverage of statements not yet covered
5	st-fep-total	prioritize on probability of exposing faults
36	st-fep-addti	prioritize on probability of faults, adjusted to consider previous test cases.
₹	fa-total	prioritize on coverage of functions
8	fa-eddt)	prioritize on coverage of functions not yet covered
9	In fep-total	prioritize on probability of exposing faults
10	In-fep-addtl	prioritive on probability of faults, adjusted to consider previous test cases
п.	fir-fi-total	prioritize on probability of fault existence
12	In-6-add9	prioritize on probability of fault existence, adjusted to counider previous to
13	In-fi-Sep-total	prioritize on combined probabilities of fault existence and fault exposure
14	fs-fi-Syp-arkitl	prioritize on combined probabilities of fault existence/espaces, adjusted of
15	fa-diff-total	prioritize on probability of fault existence
.14	h-dif-addt)	prioritize on probability of fault existence, adjusted to consider previous to
17	h-dif-fep-tetal	prioritize on combined probabilities of fault existence and fault exposure
18	fa-diff-(rp-add)	princitize on combined probabilities of fault existence/exposure, adjusted of



	ment & Function Level	Ι.	Empirical Study: Motivation
3 statistic Yi statistic Yi statistic Yi statistic Yi statistic Yi factorial Yi factorial	prioritise on coverage of materisents prioritise on coverage of materisents not yet covered prioritise on probability of Fadas, adjusced to consider presions test o prioritise on coverage of functions prioritise on coverage of functions prioritise on coverage of functions prioritise on probability of Fadas, adjusced to consider presions test prioritise on probability of Fadas, adjusced to consider presions test prioritise on probability of Fadas edistores, adjusted to consider presions test prioritise on probability of Fadas edistores, adjusted to consider previous test prioritise on probability of Fadas edistores, adjusted to consider previous test prioritise on combined probabilities of fadat existence/espacers, adju- prioritise on combined probabilities of fadat existence/espacers, adju- principles on combined probabilities of fadat existence/espacers, adju- prioritise on combined probabilities of fadat existence/espacers, adju- principles on combined probabilities of fadat existence/espacers, adju- principles on combined probabilities of fadat existence/espacers, adju-	cases ouis ten sare cristi or ouis ten sare	 RQ1: Can prioritization improve the rate of fault detection? RQ2: Fine granularity or coarse granularity prioritization techniques? RQ3: Use or not, of predictors of fault proneness for prioritization?

1

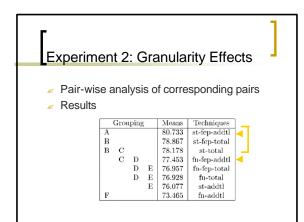


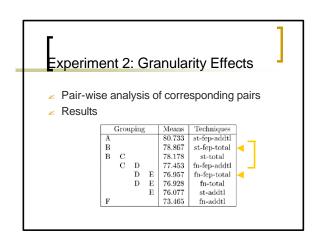


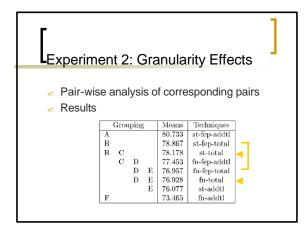
Statistical calculations to determine significance of difference in means

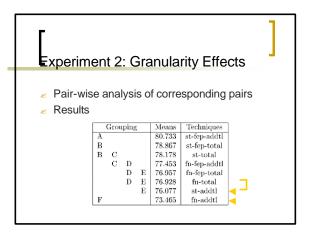
Expe	eriment 1a	ı: Resu	lts]
_				
	Grouping	Means	Techniques	
	А	80.733	st-fep-addtl	
	В	78.867	st-fep-total	
	в	78.178	st-total	
	С	76.077	st-addtl	

Grouping	g Means	Techniques
A	77.453	fn-fep-addtl
A	76.957	fn-fep-total
A	76.928	fn-total
В	73.465	fn-addt]

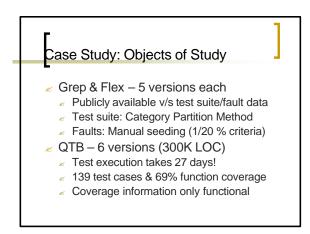


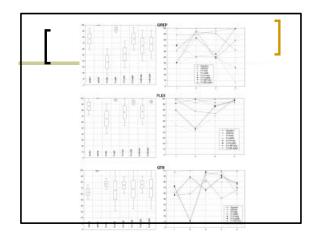


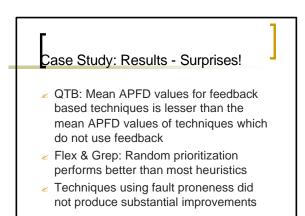


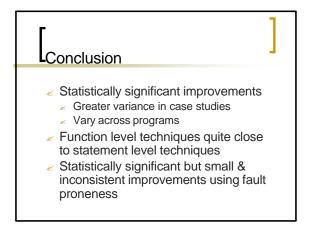


				Adding ness	g Prediction	
Grouping			ξ.	Means	Techniques	
А				79.479	fn-diff-fep-addtl	
Α				79.450	fn-diff-fep-total	
Α	в			78.712	fn-fi-fep-total	
	в	\mathbf{C}		78.167	fn-fi-fep-addtl	
		\mathbf{C}	D	77.453	fn-fep-addtl	
		\mathbf{C}	D	77.321	fn-fi-total	
		\mathbf{C}	D	77.057	fn-diff-total	
			D	76.957	fn-fep-total	
			D	76.928	fn-total	
\mathbf{E}				74.596	fn-fi-addtl	
\mathbf{E}				73.465	fn-addtl	
F				67.666	fn-diff-addtl	











- Cost of executing test suite
- Environmental factors
- \leq C(A)-C(B) < SF*(APFD(A)-APFD(B))
 - ${\scriptstyle \measuredangle}$ Not taking repeated testing into account
 - Linear savings factor

I did not but you should !

- ✓ Sec 2: Test case prioritization problem
- Sec 4.2: Empirical approaches & challenges
- Sec 5.1.2: Prioritization & analysis tools
- ✓ Sec 5.3: Threats to validity
- < Sec 6.2: Design