

Assignment Project Exam Help

Mogup

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① BenOr Assignment Project Exam Help

② Randomisation

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③ Life after 711

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④ Exam

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- BenOr 1983: "Theorems" but NO proof: $F < \sqrt{N}$

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- Aguilera, Toueg 2012: Proof! $F < N/2$

- Randomisation: Add WeChat powcoder

Randomisation

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- Very powerful technique

- But convergence in probability only!
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- Extremely unlikely odds may still eventuate!

- Cf. Aeschylus - the father of tragedy (theatrical drama)

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Aeschylus – the father of tragedy

- Wiki: Aeschylus was killed outside the city by a tortoise dropped by an eagle (possibly a lammergeier or Cinereous vulture, which do open tortoises for eating by dropping them on hard objects) which had mistaken his bald head for a rock suitable for shattering the shell.

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Termination detection

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- Piggybacks on top on any diffusing algorithm (single source)
- Works via a dynamic tree, potentially growing and shrinking for each message
- Termination is detected by the initiator when the tree has disappeared

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FLP vs CAP

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- How to understand CAP Theorem?
<https://yourblog679.wordpress.com/2018/01/17/how-to-understand-cap-theorem/>
- Eric Brewer
CAP Twelve Years Later: How the "Rules" Have Changed
<https://www.infoq.com/articles/cap-twelve-years-later-how-the-rules-have-changed/>
- Daniel Abadi
DBMS Musings (PACELC theorem)
<https://dbmsmusings.blogspot.com/2010/04/problems-with-cap-and-yahoos-little.html>

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Exam

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- 6 out of 7 questions – NO plussage, so mention which answers should be considered

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- A few side topics only marginally touched in the lectures, but should be doable if we have really understood the main topic

- Questions asking short proofs are possible

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