Assignment Project Exam Help

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University of Auckland

Add WeChat edu_assist_pr

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1 TurpinCoan Sync Multi

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2 BenOr Async Stop

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TurpinCoan Sync Multi

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TurpinCoan Init aka Round 0 (Process #i)

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- Proposal: $y \in V \cup \bot = \bot$
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- Vote: $\hat{v} \in \{0,1\} = 0$

BenOr

TurpinCoan Round 1 (Process #i)

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- Else, keep $y = \perp$
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- Note: all non-faulty processes select the same $y \in V \cup \bot$
 - $aaa\underline{b} \Rightarrow y = a$, $aaa\underline{c} \Rightarrow y = a$
 - $aa\underline{a}b \Rightarrow y = a$, $aa\underline{c}b \Rightarrow y = \bot$

TurpinCoan Round 2 (Process #i)

• Send $y \in V \cup \bot$ to all processes

- W = N : sync,
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- Else if $\exists v \in V$ arg max $|W|_v$, arbi A od $WeChat\ edu_assist_pr$
 - We do NOT vote for candidate $z \in V$, but this may be the final decision
- Else i.e. $|W| \cap V = \emptyset$. $(z = \perp, \hat{v} = 0)$
 - No candidate, no vote

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TurpinCoan Other Agreement Examples

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• Variant agreement: z = a V

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- $aab\underline{b} \Rightarrow y = \perp$, $aa \perp \underline{b} \Rightarrow z = a$
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 - $aab\underline{a} \Rightarrow y = a$, $aa \perp \underline{a} \Rightarrow z = a$, $\hat{v} = 1$, $110\underline{0} \Rightarrow 0$
 - $aab\underline{a} \Rightarrow y = a$, $aa \perp \underline{a} \Rightarrow z = a$, $\hat{v} = 1$, $110\underline{0} \Rightarrow 0$
 - $aab\underline{b} \Rightarrow y = \perp$, $aa \perp \underline{b} \Rightarrow z = a$, $\hat{v} = 0$, $110\underline{0} \Rightarrow 0$

TurpinCoan Other Agreement Examples

The three loyal processes start with abc, $a, b, c \in V$, the last

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https://eduassistpro.github. • $abcb \Rightarrow y = \bot$, $\bot \bot \bot \bot \underline{e} \Rightarrow z = f$, $\hat{v} = 0$, 000

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 - $aaba \cdots \Rightarrow z = a, \hat{v} = 1, 1101 \Rightarrow 1$
 - $aab\underline{a} \cdots \Rightarrow z = a, \hat{v} = 1, 110\underline{1} \Rightarrow 1$
 - $aabb \cdots \Rightarrow z = b, \hat{v} = 0, 1101 \Rightarrow 1$

BenOr Async Stop

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- Way around: stronger model, and weaker termination
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- Weaker termination: eventual terminat

BenOr Init aka Round 0 (Process #i)

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- Proposal: $y \in \{0, 1, \bot\} = \bot$
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- Each step has two rounds



BenOr Step s, Round 1 (Process #i)

- Send (I, s, x) to all processes
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- If all $m \in M$ have same value $v \in$
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BenOr Step s, Round 2 (Process #i)

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 v (if not already), and continue
- If A end N we change A but do not decided assist A but do not decided A.
- Else i.e. $x = \text{random} \in \{0, 1\}$.