Constraint-Preserving Snapshot Isolation

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Errata for the journal version: 15 July 2017

Def. 3.8: p. 296: Move the paragraph beginning with "Updates are often identified by name" up, to come before the one which starts with "The set $\mathbf{u} \subseteq \mathsf{SynUpdates}(\mathbf{D})$ is *legal*", since the notation of the former is used in the latter.

Ex. 3.15: p. 300: The equation $\mathsf{WTrim}_{M_{312}}\langle\langle \mathbf{E}_3, \mathcal{U}_{\tau_{31}}\rangle\rangle = \langle\emptyset, \mathsf{Upd}[\![\mathbf{E}_3|\emptyset]\!]\langle\emptyset\rangle\rangle$ should be $\mathsf{WTrim}_{M_{312}}\langle\langle \mathbf{E}_3, \mathcal{U}_{\tau_{31}}\rangle\rangle = \langle\emptyset, \mathsf{Upd}_{[\![\mathbf{E}_3|\emptyset]\!]}\langle\emptyset\rangle\rangle$. The subscripting was removed by the publisher, and I did not notice it in proofreading.

Ex. 3.15: p. 300: In the penultimate paragraph, replace "Specifically, $\langle\mathbf{c}, \mathbf{u}\rangle$ if functional" with "Specifically, if $\langle\mathbf{c}, \mathbf{u}\rangle$ is functional".

Not. 3.19: p. 302: Replace "update object" with "updateable object".

Def. 4.1: p. 302: In the second paragraph, replace "a partial order" with "a total order". An SI-schedule gives complete information on the order of begin and commit events of the transactions.

Lem. 5.3: p. 305: Delete "which is legal for M" from the end of the first sentence.

Thm.. 5.6: p. 306: In the proof, an end-of-sentence mark is missing. Replace
       "as well as $\mathsf{FLift}_{\mathbf{D}}\langle\mathsf{WTrim}_{\iota(T_{n+1})}\langle\langle \mathbf{D}, \mathcal{U}_{T_{n+1}}\rangle\rangle\rangle(N) \in \mathsf{ELDB}(\mathbf{D})$ Thus, in view of"
with "as well as $\mathsf{FLift}_{\mathbf{D}}\langle\mathsf{WTrim}_{\iota(T_{n+1})}\langle\langle \mathbf{D}, \mathcal{U}_{T_{n+1}}\rangle\rangle\rangle(N) \in \mathsf{ELDB}(\mathbf{D})$. Thus, in view of".

Def. 5.7: p. 307: In (go-ii), replace "$M_{|\mathbf{y}}$" with "$M_{|\mathbf{c}}$".

Def. 5.15: p. 310: Replace "$\iota : \{T_1, T_2\}\mathsf{ELDB}(\mathbf{D})$" with "$\iota : \{T_1, T_2\} \to \mathsf{ELDB}(\mathbf{D})$". (Another gift during the typesetting process.)

Refernce 12: p. 325: Somehow, the typesetter removed most of the reference. The full entry should be:

Hegner, S.J.: A simple model of negotiation for cooperative updates on database schema components. In: Y. Kiyoki, T. Tokuda, A. Heimbürger, H. Jaakkola, N. Yoshida. (eds.) Frontiers in Artificial Intelligence and Applications XX11, pp. 154–173. IOS Press (2011)