

Erratum

Erratum to “Axiomatisations of functional dependencies in the presence of records, lists, sets and multisets”[☆]

Sven Hartmann, Sebastian Link*, Klaus-Dieter Schewe

Department of Information Systems, Information Science Research Centre, Massey University, Private Bag 11222, Palmerston North, New Zealand

Abstract

This note corrects two errors that occurred during the typesetting of our paper “Axiomatisations of functional dependencies in the presence of records, lists, sets and multisets”, which appeared in Hartmann et al. [Axiomatisations of functional dependencies in the presence of records, lists, sets and multisets, Theoret. Comput. Sci. 353(2) (2006) 167–196].

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1. A correction of two typesetting errors

In this note we correct two errors that occurred during the typesetting of our paper [1] about *Axiomatisations of functional dependencies in the presence of records, lists, sets and multisets*.

The last bullet point of [1, Lemma 11, p. 172] should read as

- if $X \not\leq Y$ and $N = L[M]$, $X = L[X']$, $Y = L[Y']$, then $X \dot{-}_N Y = L[X' \dot{-}_M Y']$.

Moreover, the correct version of [1, Definition 17, p. 176] is as follows.

Definition 17. The following inference rules

$$\frac{}{\mathcal{X} \rightarrow \mathcal{Y} \quad \mathcal{Y} \subseteq \mathcal{X}}, \quad \frac{}{\{X\} \rightarrow \{Y\} \quad Y \leq X}, \quad \frac{\mathcal{X} \rightarrow \mathcal{Y}}{\mathcal{X} \rightarrow \mathcal{X} \cup \mathcal{Y}},$$

(reflexivity axiom) (subattribute axiom) (extension rule)

$$\frac{}{\{X, Y\} \rightarrow \{X \sqcup_N Y\} \quad X, Y \text{ reconcilable}}, \quad \frac{\mathcal{X} \rightarrow \mathcal{Y}, \mathcal{Y} \rightarrow \mathcal{Z}}{\mathcal{X} \rightarrow \mathcal{Z}}$$

(restricted join axiom) (transitivity rule)

are called the generalised Armstrong axioms for FDs.

Reference

- [1] S. Hartmann, S. Link, K.-D. Schewe, Axiomatisations of functional dependencies in the presence of records, lists, sets and multisets, Theoret. Comput. Sci. 355 (2) (2006) 167–196.

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* Corresponding author. Tel.: +64 6 350 5799; fax: +64 6 350 5725.

E-mail addresses: S.Hartmann@massey.ac.nz (S. Hartmann), S.Link@massey.ac.nz (S. Link), K.D.Schewe@massey.ac.nz (K.-D. Schewe).