

Patrizio CINTIOLI

**CORRIGENDUM TO “SETS WITH NO
SUBSETS OF HIGHER WEAK
TRUTH-TABLE DEGREE”
REPORTS ON MATHEMATICAL LOGIC,
53 (2018), 3–17**

In the paper we prove the existence of an arithmetical set without subsets of higher weak truth-table degree. Mistakenly, we believed that there were no known reducibilities strictly contained in the Turing reducibility (on all 2^ω) incomparable with \leq_{wtt} and having the corresponding degree notion. Actually in [1] such a reducibility has been introduced (D^+ -reducibility). Furthermore, we have not sufficiently highlighted our plan to consider only reducibilities having the corresponding degree notion.

Therefore, the sentence in the last three lines of the introduction in the paper is not correct. Namely, the sentence

“Since we currently do not know intermediate reducibilities between \leq_{wtt} and \leq_T , we deduce that for all the known reducibilities \leq_r strictly contained in \leq_T there are arithmetical r -introimmune sets.”

Received 2 May 2020

Keywords and phrases: weak truth-table reducibility, introimmune sets.

AMS Subject Classification: 03D30.

should be

“In conclusion, for all the reducibilities \leq_r in the picture

$$\leq_1 \Rightarrow \leq_m \Rightarrow \leq_{tt} \Rightarrow \leq_{wtt}$$

there are arithmetical sets without subsets of higher r -degree.”

Consequently, the second part of the abstract should be canceled or appropriately modified.

In addition, we report the following two typos:

- 1) page 12, line 15: “Claim 1” should be “Claim 3.6”;
- 2) page 14, line 17: “Claim 4” should be “Claim 3.9”.

References

- [1] B. M. Andersen. Distinguishing complete sets with respect to strong notions of reducibility. Thesis (Ph.D.)-Dartmouth College, Hanover, New Hampshire, (2008).

Scuola di Scienze e Tecnologie
Università di Camerino
62032 Camerino, Italy
`patrizio.cintioli@unicam.it`