CORRIGENDUM

LOCALLY INTERNAL AGGREGATION FUNCTIONS [IJUFKS Vol. 7, No. 3 (1999) 235-241]

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A typographical error was crept in the paper "Locally Internal Aggregation Functions" which makes difficult to understand the proof of Proposition 2.6. Where it says " $(A \cap R_i) \cap (B \cap R_i) = R_i$ " it should say " $(A \cap R_i) \cap (B \cap R_i) = \emptyset$ and $(A \cap R_i) \cup (B \cap R_i) = R_i$ ". See the original spanish version of the paper¹.

We take one's chance to make the following comments:

- (i) The main result of the paper, Proposition 3.8 which characterizes the locally internal aggregation functions, was simultaneously published in a more general setting by Prof. S. Ovchinnikov³. We were unaware of Ovchinnikov's publication when our paper was submitted to IJUFKS.
- (ii) Proposition 3.9, a corollary of the main result, was included in spite of being a known result² because we believed that its proof was interesting from the point of view of our paper.
- (iii) Finally we include a step of the proof of Propositions 2.6 and 3.7 which was not considered necessary to detail at that moment:

Let $a = (a_1, \dots, a_n) \in A_i \cap R$. Let us consider now, for all $j \neq i$, the functions $\varphi_j = f - \pi_j$, where π_j means the j -th projection, that is, $\pi_j(x_1, \dots, x_n) = x_j$. Due to the facts that R is open and for all $j \neq i$, $\varphi_j(a) \neq 0$ and φ_j is continuous, there exists a neighbourhood of a , $U(a)$, such that $U(a) \subset R$ and for all $x \in U(a)$, $\varphi_j(x) \neq 0 \ \forall j \neq i$. Finally, since f is locally internal, we can conclude that $f(x) = x_i$ and thus $A_i \cap R$ is open.

We are grateful to Prof. Ovchinnikov because his remarks have made possible to correct errors and complete some proofs.

References

1. G. Mayor, J. Martín, *Funciones de Agregación Localmente Internas*, Proc. of the VIII Congreso Español sobre Tecnologías y Lógica Fuzzy (1998), 355-359.
2. S. Ovchinnikov, *Means on ordered sets*, Math. Soc. Sci. 32 (1996) 39-56.
3. S. Ovchinnikov, *Invariant functions on simple orders*, Order 14 (1998) 365-371.