MATCH REPORT INPUT SYSTEM WITH MICROSOFT EXCEL AND EXCEL MACRO

Esaki, N. 1)

1) Dept. of Information and Computer Eng., Toyota College of Technology, Japan

Introduction
It is important that we make correct match reports as the official records for soccer games. It is difficult, however, for the approvers (match commissioners or referees) to check all the data in a short time after the game. Actually some of the official records, which are usually handwritten, contain mistakes[2], especially in the regional or the lower leveled competitions. Therefore, the aim of this paper is to evaluate the system that makes a match report easily and correctly with the functions of the Microsoft Excel and the Excel macro on a personal computer, which we have developed[1].

Methods
The method is the comparison of mistake rate per a match in making match reports, where the conditions are whether the scorers use the system above mentioned or not, and whether the scorers are the beginners or the experts. The mistakes that we are able to point out back are classified into the totaling one or the inputting one.

Results & Discussion
Table 1 shows the difference of the mistake rates depending on the scoring conditions. Both the totaling and the inputting mistake rate of the beginners are reduced by using the system, where especially the totaling one is reduced to zero. On the other hand, the experts make almost no mistake, except a few inputting mistakes, which depend on the scorer's unfamiliarity with the system.

Table 1. The comparison of mistake rates(per a match).

Scorers	System	Totaling	Inputting
Beginners	Not using	0.71	4.57
	Using	0	1.53
Experts	Not using	0	0
	Using	0	0.17

Conclusion
Summing up, the system is useful for the scorers, who are especially the beginners, to make correct match reports. Moreover, it is also useful for the experts to print the reports out without handwriting and totaling. To develop an easier input system with a portable terminal such as smart phones is a future work.

References
1. Esaki, N. et al. (2010). *Japan Soc. of Sci. and Football 2010 8th Congress*: p.38. Development of the match report input system with Microsoft Excel and Excel macro(in Japanese).
2. Official Records site of JFA(in Japanese):
   http://www.jfa.or.jp/match/