

【Abstract】

To maintain quality of academic journals, started to publishing in the middle of the seventeenth century, a system of examining content of papers was necessary, and the peer reviewing concept and system were gradually establishing until the late period of twentieth century. The development of science and technology in the twenty-first century had made a revolution of publishing form academic journals. Except of the conventional paper journals, electronic journals have been swiftly emerged and caused the changes of conventional editorial and peer reviewing systems

The paper of “implementing Peer Review on the InterNet, “written by Steven Harnad and published on the international conference on Referred Electronic Journal in 1993, has explored the importance of electronic peer reviewing system. The development of electronic peer reviewing system not only can sort the drawbacks of conventional system out, but also can promote and establish an efficient, justice, and objective interactive publishing form.

There are some concepts and problems have to be clarified for peer reviewing system, although electronic systems owned lots of advantages. For example, what functions have to be involved in designing a new electronic peer reviewing system? How to effectively protect and manage in the Internet environments? Such these problems have to be solved and managed, and the electronic peer reviewing systems as Steven Harnad said could be established. Therefore, in this paper, the current conventional peer reviewing system is stated and the similarities and dissimilarities between conventional and electronic peer reviewing systems are discussed. As example by ESPERE was also proposed to demonstrate the current situation of the electronic peer reviewing system.

關鍵字(keywords)：同儕評閱(peer reviewing)，同儕評閱電子化(electronic peer reviewing)