

Shikoku Research Center





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[Organization]

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Takahiko Mendori, Shinichi Yoshida (Kochi Univ. of Tech.), Shinji Tsuzuki (Ehime Univ.), Kazuhide Kanenishi, Tetsushi Ueta (The University of Tokushima), Takumi Yamaguchi (Kochi National college of Tech.), Hideki Hayashi (Softbank Telecom) [Subjects of Research and Development on JGN2 R&D Project] R&D of Surrounding Computing Technology

We work on R&D for establishing "Surrounding Computing Environment "which is a sort of " evolving ubiquitous environment" where we can use computing and DB resources freely on networks without knowing the details of network functions and terminals. In the ubiquitous environment, it is not inevitable to process data centrally at all, but it is natural to distribute data processing over the network.

It is required to enable real-time data transmission and its reconstruction independent of kinds of data, transmission media, and other external factors in order to build a network on which terminals cooperate in autonomous distributed way, and we can selectively and transparently share computing resources depending on the environment. We conduct R&D of a signal processing system for high-speed and highly efficient coding and integrated reconstruction of various kinds of information such as images and voice.

