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修士論文要旨

IP/DVB 伝送方式の改良とその評価
Improvement of IP over DVB Transport Mechanism and the evaluation

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As an open standard DVB system provides an affordable mean to use broadcast channel such as satellite for Internet Protocol (IP) services.

DVB use MPEG2 Transport Stream at Layer 2. Size of MPEG2-TS cell is fixed to 188 bytes but generally IP packet could not fit perfectly into integral number of the cells. The left over space whether will be ignored (padding mode) or will be filled with next incoming packet.

This thesis studies the shortcomings of these modes and propose section packing mode with threshold setting to overcome the deficiency. In this thesis a complete system has been developed to emulate the behavior of IP/DVB over satellite links for the performance evaluation. Efficiency, packing delay and jitter performance evaluation between proposed method and conventional method has been carried out.