

Technology Directions for the 21st Century. Volume 4

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Data compression is an important tool for reducing the bandwidth of communications systems, and thus for reducing the size, weight, and power of spacecraft systems. For data requiring lossless transmissions, including most science data from spacecraft sensors, small compression factors of two to three may be expected. Little improvement can be expected over time. For data that is suitable for lossy compression, such as video data streams, much higher compression factors can be expected, such as 100 or more. More progress can be expected in this branch of the field, since there is more hidden redundancy and many more ways to exploit that redundancy. Crimi, Giles and Verheggen, Henry and Botta, Robert and Paul, Heywood and Vuong, Xuyen Glenn Research Center 35916 NASA/CR-1998-207408, NAS 1.26:207408, E-11172 NAS3-26565; RTOP 315-90-81 DATA COMPRESSION; SPACECRAFT INSTRUMENTS; TELECOMMUNICATION; WEIGHT REDUCTION; BANDWIDTH; DATA TRANSMISSION; DATA FLOW ANALYSIS; VIDEO DATA

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