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Real-Time Imaging and Dynamic Analysis

Foreword

Japan is responsible for Technical Commission V of the International Society for Photogrammetry and Remote Sensing (ISPRS) for the period 1996 - 2000. Commission V covers the topics of Close-Range Techniques and Machine Vision. While it initially dealt with architectural recording and non-topographic photogrammetric mapping, Commission V now covers a much broader range of applications, by embracing digital imaging systems. The last four years (1992 - 1996) have been a period of great change in photogrammetry from analog to digital.

Digital photogrammetric imaging is becoming a useful tool in a number of fields, e.g. industry metrology, machine and robot vision, medical and sports science, archaeology, architecture and construction management. There are still, however, some issues which need to be solved before digital photogrammetry becomes operational. These problems include accuracy, measuring speed, imaging and recording, the handling of large volume of data, integration with position/attitude sensors etc.. In particular, integration of virtual reality, computer graphics, computer aided design and animation techniques with digital photogrammetry will become indispensable for the development of the future of Commission V.

We trust that 'Real-Time Imaging and Dynamic Analysis' will be of interest to you, and bring you up to date with the state-of-the-art of this topic.

Prof. Hirofumi Chikatsu
President, ISPRS Commission V

Prof. Eihan Shimizu
Secretary, ISPRS Commission V

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