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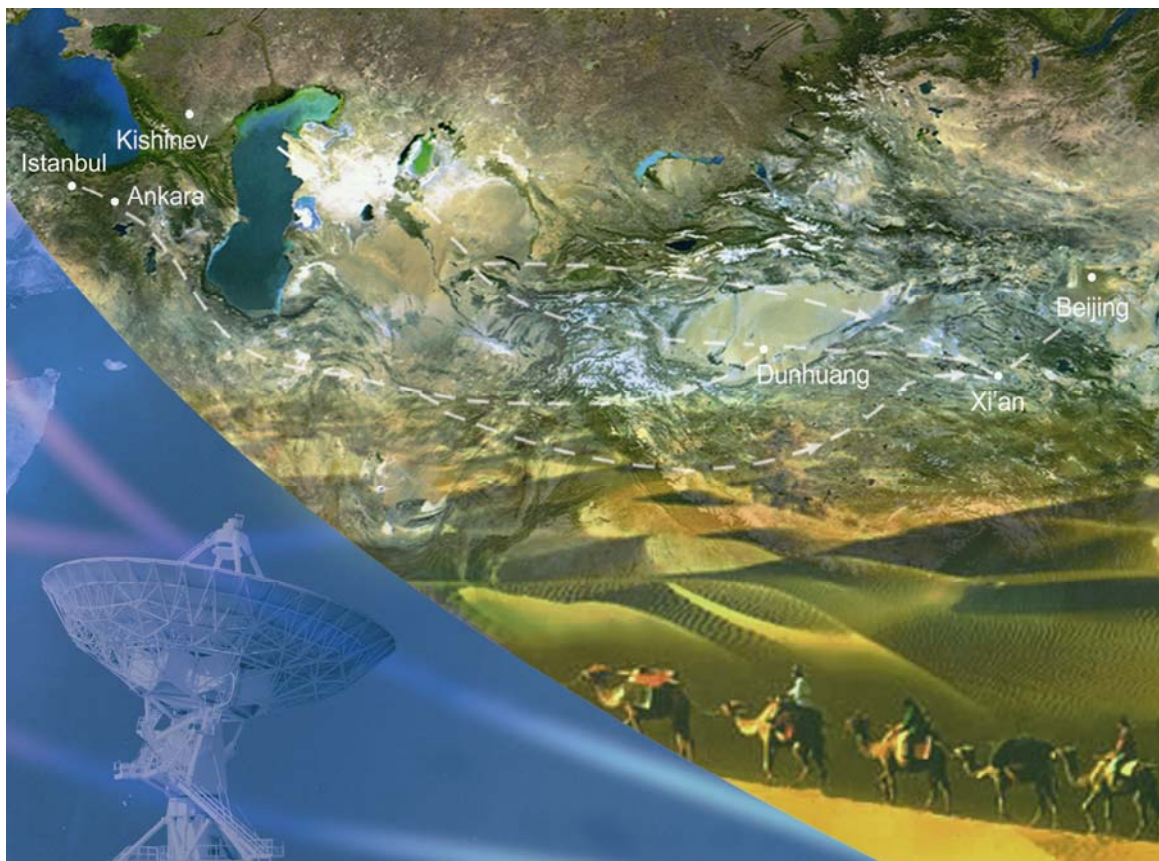
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Edited by:
CHEN Jun, JIANG Jie, Hans-Gerd MAAS

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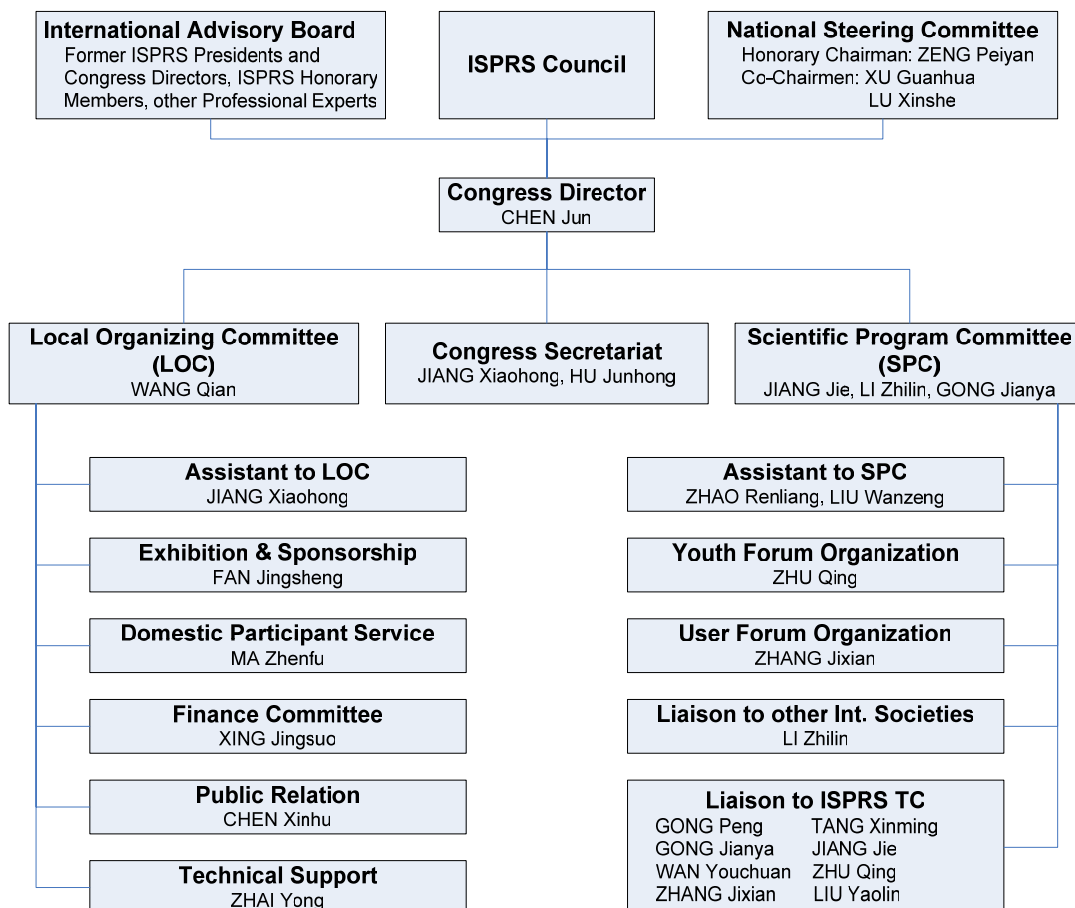
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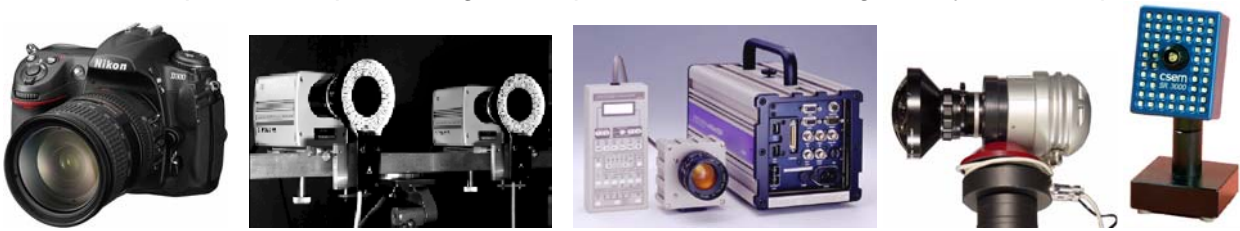
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Introduction

ISPRS Commission V is dealing with imaging and laserscanning techniques in a wide range of application fields, including industrial and engineering metrology, cultural heritage documentation, virtual reality 3D data acquisition, robotics, 3D motion analysis, quantitative medical imaging, biometry and many more. Most of these fields stand for market segments with a rapidly growing demand for automated, fast, efficient, reliable and precise 3D measurement techniques. A central issue in many developments is the integration of sensor technology with reliable data processing schemes to generate precise and highly automated online or real-time photogrammetric measurement systems. In addition to all sorts of digital cameras (high resolution, high speed, central perspective, panoramic, hemispheric, telecentric, ...), Commission V clientele is increasingly using terrestrial laserscanners and novel 3D-cameras. The advent of these devices has also boosted the interest in 3D point cloud processing techniques in addition to image analysis techniques.



As outgoing commission president of ISPRS Commission V, I would like to express my thanks to those, who contributed to the compilation of this volume and who supported the scientific (and organizational) work of ISPRS Commission V during the past four years: Thomas Luhmann and Frank van den Heuvel (WG V/1), Pierre Grussenmeyer and Klaus Hanke (WG V/2), Derek Lichti and Norbert Pfeifer (WG V/3), Sabry El-Hakim and Fabio Remondino (WG V/4), Ralf Reulke and Sergej Zheltov (WG V/5), Petros Patias and Nicola D'Apuzzo (WG V/6), Naser El-Sheimy and Antonio Vettore (ICWG V/I), Ron Li and Jurgen Everaerts (ICWG I/V), Marc Pollefeys and David Nister (ICWG III/V) were working group chair persons and supported the commission work through workshops, publications, test and reference data, hardware and software overviews, tutorials and many more. They also did a great job in reviewing all the extended abstracts of the contributions contained in this volume. My special thank goes to ISPRS Commission V secretary Danilo Schneider, who gave very valuable support to the management of the commission over the past four years and contributed a lot to the compilation of this volume.

Hans-Gerd Maas, President of ISPRS Technical Commission V

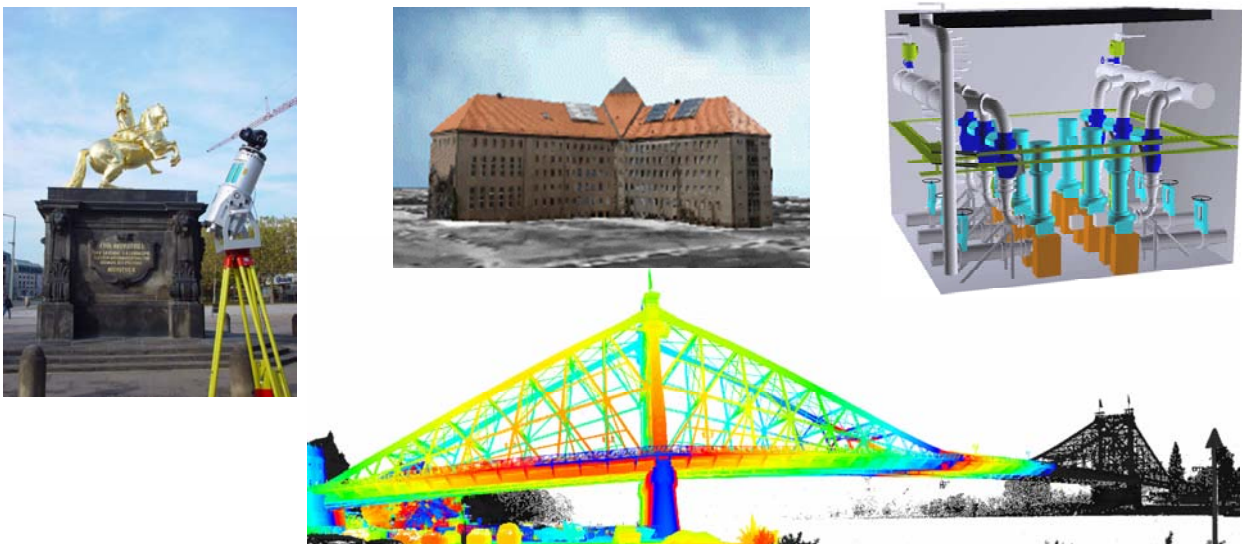


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