

Table of Contents

<i>Preface</i>	V
INTRODUCTION	1
Dieter Fritsch <i>Photogrammetry and geographic information systems - evolution instead of revolution</i>	3
Wolfgang Kresse <i>Digital orthophoto production with PHODIS</i>	11
Gertrud Roth <i>Innovations and upgrades for analytical stereoplotting</i>	17
Monika Sester <i>Modelling strategies in photogrammetry</i>	21
Michael Hahn <i>Measurement by image matching - state-of-the-art in digital photogrammetry</i>	33
NEW TECHNOLOGY FOR AERIAL PHOTOGRAPHY	43
Rolf-Peter Mark <i>The performance capabilities of modern aerial camera systems</i>	45
Rolf Becker <i>Experience with a modern photoflight navigation system</i>	51
Hans-Dieter Arnold, Peter Herms, Ralf Schroth <i>New results from photoflights with GPS</i>	53
Holger Schade <i>Integrated sensor systems for digital photogrammetry</i>	63
Christian Thom, Isabelle Jurvillier <i>Experiences with a digital aerial camera at Institut Géographique National (France)</i>	73
Leif Erik Blankenberg, Ola Øvstedal <i>Block adjustment with GPS - results from test flight FREDRIKSTAD</i>	85
Otto Hofmann, Anton Kaltenecker, Franz Müller <i>Das flugzeuggestützte, digitale Dreizeilenaufnahme- und Auswertesystem DPA - erste Erprobungsergebnisse</i>	97

Peter Seige <i>MOMS: A contribution to high resolution multispectral and stereoscopic earth observation from space</i>	109
Jörg Albertz, Heinrich Ebner, Gerhard Neukum <i>Die Kamera-Experimente HRSC und WAOSS der Mission Mars 94/96</i>	121
PHOTOGRAMMETRIC IMAGE PROCESSING	135
Werner Mayr <i>Photogrammetric digital image processing at Carl Zeiss</i>	137
Robert Ecker, Rainer Kalliany, Gottfried Otepka <i>High quality rectification and image enhancement techniques for digital orthophoto production</i>	143
Ulrich Düren, Wolfgang Michalski, Hans-Peter Stöckler <i>Die Herstellung der Luftbildkarte 1:5000 in digitaler Form beim Landesvermessungsamt Nordrhein-Westfalen</i>	157
Lothar Klefer <i>Digital photogrammetry in the Land Consolidation Authority in Baden-Württemberg</i>	169
Christian Helpke <i>Performance and state-of-the-art of digital stereo processing</i>	173
José Luis Colomer <i>First experiences using digital photogrammetric stereo workstations at the ICC</i>	185
Toni Schenk <i>Image understanding and digital photogrammetry</i>	197
Carola Braun <i>Gebäudeextraktion aus digitalen Bildern</i>	209
Ernst Spiess <i>Raster output of photogrammetric data</i>	225
IMAGE DATA WITHIN GEOGRAPHIC INFORMATION SYSTEMS	241
Johann Zahn <i>The establishing of raster data archives at the Bayerisches Landesvermessungsamt</i>	243
Robert Winter <i>Konzeption zum Aufbau eines digitalen Luftbildarchivs in Niedersachsen</i>	251

Emmanuel Baltsavias <i>Integration of ortho-images in GIS</i>	261
Jean Loodts <i>Digital orthophotos and GIS: the perfect couple</i>	273
Ralf Bill, Görres Grenzdörffer <i>The importance of digital orthophotos for sectoral Geo-Information Systems</i>	285
Lars Ottoson <i>Database for the 1:10 000 map of Sweden</i>	301
James Cadoux-Hudson <i>Making aerial photos work</i>	305
Gerhard Gomon <i>On production and importance of digital cadastral photomaps in the newly-formed German states</i>	309
LIST OF AUTHORS	315