

EUROMECH
European Mechanics Society

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Euromech 406 Colloquium
BOOK OF ABSTRACTS

"IMAGE PROCESSING METHODS
IN APPLIED MECHANICS"
May 6-8, 1999, Warsaw, POLAND.
4/1999



P.269

W A R S Z A W A 1 9 9 9

<http://rcin.org.pl>

ISSN 0208-5658

Praca wpłynęła do Redakcji dnia 9 kwietnia 1999 r.



2025.9



Na prawach rękopisu

Instytut Podstawowych Problemów Techniki PAN
Nakład 150 egz. Ark. wyd. 13,0 Ark. druk. 16,20
Oddano do drukarni w kwietniu 1999r.

ATOS Poligrafia-Reklama, W-wa, ul. Jana Kazimierza 35/37

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<http://fluid.ippt.gov.pl/euro406>



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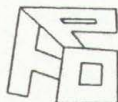
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Image Processing Methods in Applied Mechanics
May 6-8, 1999, Warsaw, Poland

BOOK OF ABSTRACTS



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Preface

The 406 EUROMECH Colloquium on "Image Processing Methods in Applied Mechanics" is to some extent follow-up of the earlier meetings, fluid mechanics colloquia on image analysis (#279 Delft 1992 and #335 Rome 1995) and their solid mechanics counterparts (#350 Talence 1996 and #365 Sheffield 1997). It is aimed to create a common platform for fluid and solid mechanic groups working on the same subject, namely development and application of the modern image acquisition and image processing methods in mechanics. Progress of new image recording techniques introduced revolutionary changes into experimental methods in mechanics. Computerised analysis has become a step forward in high accuracy evaluation of optical data. However, development of the image processing techniques in both fields of mechanics seems to proceed in parallel paths, solving very often similar or identical problems. We hope that the meeting will help participants to gain knowledge and allow critical assessment of similarities or differences between image processing methods used in applied mechanics and associated fields today.

This booklet contains extended abstracts of the contributions which were accepted for presentation during the days of the Colloquium. Among these are seven keynote lectures by:

- Giovanni Maria Carlomagno, Università di Napoli
- Ian Grant, Heriot Watt University, Edinburgh
- Thomas Kreis, BIAS, Bremen, Germany
- Małogorzata Kujawińska, Warsaw University of Technology
- Wolfgang Osten, BIAS, Bremen, Germany
- Paul Smigielski ISL, Saint-Louis, France
- Patrick Wang, Northeastern University, USA

The Colloquium is organized on behalf of the European Mechanics Society by Institute of Fundamental Technological Research Polish Academy of Sciences (IPPT PAN), Image Processing Society Poland (TPO) and Institut für Strömungsmechanik Deutsches Zentrum für Luft- und Raumforschung (DLR).

We are grateful for the financial support of State Committee for Scientific Research (KBN) and Foundation for Polish Science (FNP), Mianowski Fund, Warsaw, which helped several participants from the "Central and East Europe" to join the meeting.

We would like to thank all of you who contributed the results of your latest research, hoping that the Colloquium will fulfil the expectations you might have.

Tomasz Kowalewski

Warszawa, 9.04.1999

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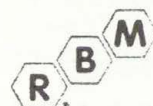
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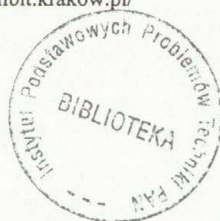
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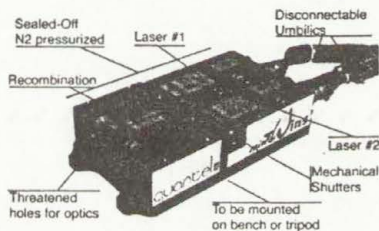


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