MICCAI 2006 Joint Disease Workshop
Quantitative Automated Musculoskeletal Analysis
Second Call for Papers

A number of joint diseases have a huge effect on the quality of life – and the majority of the world population will be affected by one of these at some point in the life. These diseases cause pain, swelling, inflammation and reduced range of motion. For many years, much clinical research has been devoted to understanding these diseases and to develop effective treatment beyond pain relief.

Starting with traditional radiographs, radiology has been a source for analysis of the progress of these diseases, and this is increasing with the advances of modalities such as magnetic resonance imaging. However, in many areas, the image analysis is only now maturing and taking advantage of the advanced methodologies used in other fields of medical image analysis. The purpose of this workshop is to give excellent clinical, methodological, and theoretical researchers an opportunity to exchange views, ideas, and methods and to pave the way for increased collaboration.

Researchers familiar with MICCAI should think of this as a workshop on research applied to the field of joint diseases. For researchers new to MICCAI, this means that the methodological focus is on (semi-)automated, quantitative approaches to computer aided diagnosis or analysis of disease progression within the scope of diseases that mainly affect the joints and the surrounding bones. Or in other words the sub-title: *Quantitative Automated Musculoskeletal Analysis*

www.itu.dk/image/JOINT

WORKSHOP BOARD

Erik Dam, Image Group
IT University of Copenhagen

Sharmila Majumdar, Musculoskeletal Quantitative Imaging Research Group
University of California, San Francisco

J. Christopher Buckland-Wright, Division of Applied Biomedical Research
King's College London

PROGRAM COMMITTEE

Monica Barbu-McInnis, VirtualScopips, USA
Marleen de Bruijne, IT University of Copenhagen, Denmark
Graeme Jones, MD, Menzies Research Institute, Australia
Bram van Ginneken, Image Science Institute, Utrecht University, Netherlands
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Thomas Link, MD, University of California, San Francisco, USA
Steven Millington, MD, Medical University of Vienna, Austria
Wiro Niessen, Erasmus Medical Center, Rotterdam University, Netherlands
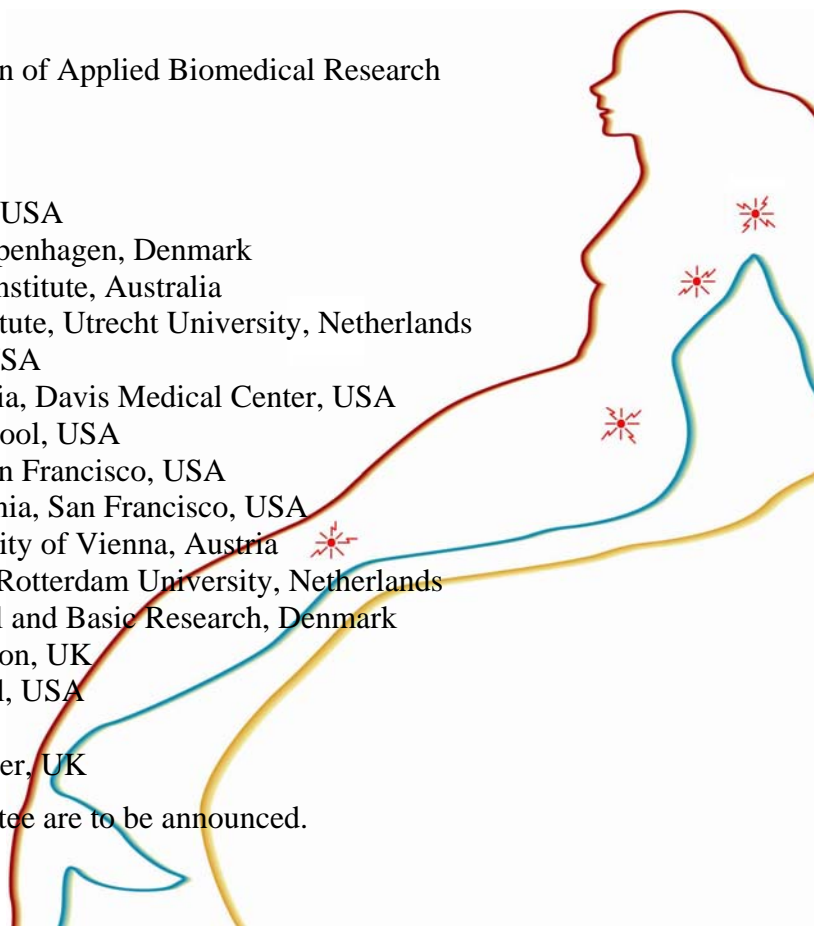*Paola Pettersen*, MD, Center for Clinical and Basic Research, Denmark
Julia Schnabel, University College London, UK
Simon Warfield, Harvard Medical School, USA
John Waterton, AstraZeneca, UK
Tomos Williams, University of Manchester, UK

Further members of the program committee are to be announced.

INVITED SPEAKER   The key note speaker at the workshop is Dr *Felix Eckstein* from the Institute of Anatomy and Musculoskeletal Research at Paracelsus Private Medical University in Salzburg, Austria.

His presentation will cover mile-stone research achievements from other groups as well as the most recent results from his own group. The preliminary title is: *Quantitative MR Imaging of Synovial Joints in Health and Disease*

MICCAI   The workshop is hosted in conjunction with the 9th international MICCAI (Medical Image Computing and Computer Aided Intervention) conference. For more information about MICCAI, see: www.miccai2006.dk

SUBMISSION   There will be submission online at the workshop web site. Dual submissions to both the workshop and MICCAI are allowed following the MICCAI guidelines.

DATES
  MICCAI deadline: March 10, 2006
  Submission deadline: **March 24, 2006**
  Notification of Acceptance: June 8, 2006
  MICCAI: October 2-4, 2006
  Workshop: **October 5, 2006**

TOPICS   The workshop encourages submission of original work involving clinical, theoretical and methodological aspects of research focusing on osteoarthritis, osteoporosis, or inflammatory or musculoskeletal joint diseases in general including acute injuries such as cartilage lesions or meniscus/ligament tears. Methodologically, the focus can be on quantitative analysis, automatic or interactive methods, or performance evaluation. The clinical aim of the work can be diagnosis, clinical studies, or surgery. The lists given are not restrictive and related topics are most welcome.

FORMAT   Papers are to be submitted in the Springer LNCS format in order to allow for double submission with MICCAI (for details on the format, see the workshop web site). Papers can be up to 8 pages. It is completely acceptable to write shorter papers in the style of an extended abstract (like the one used at SPIE Medical or similar to the formats used at medical conferences).

PRESENTATIONS   Papers will be submitted to double review by members of the program committee and selected based on quality and originality. There will be both oral and poster presentations in the single day workshop.

PROCEEDINGS   Proceedings will be printed and ready for the workshop. Currently, we are arranging for selected papers to be published as a journal special issue. News on this will appear at the workshop web page.

VENUE   The workshop will be at the IT University of Copenhagen – located near the Copenhagen city center as well as the Copenhagen International Airport.

For additional information and updates, see **www.itu.dk/image/JOINT**