The fifth international Conference in Medical Image Computing and Computer Assisted Intervention (MICCAI 2002) was held in Tokyo from September 25th to 28th, 2002. This was the first time that the conference was held in Asia since its foundation in 1998. The objective of the conference is to offer clinicians and scientists the opportunity to collaboratively create and explore the new medical field. Specifically, MICCAI offers a forum for the discussion of the state of art in computer-assisted interventions, medical robotics, and image processing among experts from multi-disciplinary professions, including but not limited to clinical doctors, computer scientists, and mechanical and biomedical engineers. The expectations of society are very high; the advancement of medicine will depend on computer and device technology in coming decades, as they did in the last decades.

We received 321 manuscripts, of which 41 were chosen for oral presentation and 143 for poster presentation. Each paper has been included in these proceedings in eight-page full paper format, without any differentiation between oral and poster papers. Adherence to this full paper format, along with the increased number of manuscripts, surpassing all our expectations, has led us to issue two proceedings volumes for the first time in MICCAI's history. Keeping to a single volume by assigning fewer pages to each paper was certainly an option for us considering our budget constraints. However, we decided to increase the volume to offer authors maximum opportunity to argue the state of art in their work and to initiate constructive discussions among the MICCAI audience.

It was our great pleasure to welcome all MICCAI 2002 attendees to Tokyo. Japan, in fall, is known for its beautiful foliage all over the country. The traditional Japanese architectures always catches the eyes of visitors to Japan. We hope that all the MICCAI attendees took the opportunity to enjoy Japan and that they had a scientifically fruitful time at the conference. Those who could not attend the conference should keep the proceedings as a valuable source of information for their academic activities.

We look forward to seeing you at another successful MICCAI in Toronto in 2003.
Organizing Committee

Honorary Chair
Kintomo Takakura Tokyo Women’s Medical University, Japan

General Chair
Takeyoshi Dohi The University of Tokyo, Japan
Terry Peters University of Western Ontario, Canada
Junichiro Toriwaki Nagoya University, Japan

Program Chair
Ron Kikinis Harvard Medical School and Brigham and Women’s Hospital, USA

Program Co-chairs
Randy Ellis Queen’s University at Kingston, Canada
Koji Ikuta Nagoya University, Japan
Gabor Szekely Swiss Federal Institute of Technology, ETH Zentrum, Switzerland

Tutorial Chair
Yoshinobu Sato Osaka University, Japan

Industrial Liaison
Masakatsu Fujie Waseda University, Japan
Makoto Hashizume Kyushu University, Japan
Hiroshi Iseki Tokyo Women’s Medical University, Japan
Program Review Committee

Alan Colchester
University of Kent at Canterbury, UK
Wei-Qi Wang
Dept. of E., Fudan University, China
Yongmei Wang
The Chinese University of Hong Kong, China
Jocelyne Troccaz
TIMC Laboratory, France
Erwin Keeve
Research Center Caesar, Germany
Frank Tendick
University of California, San Francisco, USA
Sun I. Kim
Hanyang University, Korea
Pierre Hellier
INRIA Rennes, France
Pheng Ann Heng
The Chinese University of Hong Kong, China
Gabor Szekely
Swiss Federal Institute of Technology Zurich, Switzerland
Kirby Vosburgh
CIMIT/ MGH/Harvard Medical School, USA
Allison M. Okamura
Johns Hopkins University, USA
James S. Duncan
Yale University, USA
Baba Vemuri
University of Florida, USA
Terry M. Peters
The John P. Robarts Research Institute, Canada

Allen Tannenbaum
Georgia Institute of Technology, USA
Richard A. Robb
Mayo Clinic, USA
Brian Davies
Imperial College London, UK
David Hawkes
King’s College London, UK
Carl-Fredrik Westin
Harvard Medical School, USA
Chris Taylor
University of Manchester, UK
Derek Hill
King’s College London, UK
Rami Shahidi
Stanford University, USA
Demetri Terzopoulos
New York University, USA
Shuqian Luo
Capital University of Medical Sciences, USA
Paul Thompson
UCLA School of Medicine, USA
Simon Warfield
Harvard Medical School, USA
Gregory D. Hager
Johns Hopkins University, USA
Kiyoyuki Chinzei
AIST, Japan
Shinichi Tamura
Osaka University, Japan
Jun Toriwaki
Nagoya University, Japan
Yukio Kosugi
Tokyo Institute of Technology, Japan
Jing Bai
Tsinghua University, China
Philippe Ciequin
UJF (University Joseph Fourier), France
Xavier Pennec
INRIA Sophia-Antipolis, France
Frithjof Kruggel
Max-Planck-Institute for Cognitive Neuroscience, Germany
Tim Salcudean
University of British Columbia, Canada

Stephen Pizer
University of North Carolina, USA

J. Michael Fitzpatrick
Vanderbilt University, USA

Gabor Fichtinger
Johns Hopkins University, USA

Koji Ikuta
Nagoya University, Japan

Jean Louis Coatrieux
University of Rennes-INSERM, France

Jaydev P. Desai
Drexel University, USA

Chris Johnson
Scientific Computing and Imaging Institute, USA

Luc Soler
IRCAD, France

Wieslaw L. Nowinski
Biomedical Imaging Lab, Singapore

Andreas Pommert
University Hospital Hamburg-Eppendorf, Germany

Heinz-Otto Peitgen
MeVis, Germany

Rudolf Fahlbusch
Neurochirurgische Klinik, Germany

Simon Wildermuth
University Hospital Zurich, Inst. Diagnostic Radiology, Switzerland

Chuck Meyer
University of Michigan, USA

Johan Van Cleynenbreugel
Medical Image Computing, ESAT-Radiologie, K.U. Leuven, Belgium

Dirk Vandermeulen
K.U. Leuven, Belgium

Karl Rohr
International University in Germany, Germany

Martin Styner
Duke Image Analysis Lab, UNC Neuro Image Analysis Lab, Germany

Catherina R. Burghart
University of Karlsruhe, Germany

Fernando Bello
Imperial College of Science, Technology and Medicine, UK

Colin Studholme
University of California, San Francisco, USA

Dinesh Pai
University of British Columbia, Canada

Paul Milgram
University of Toronto, Canada

Michael Bronskill
University of Toronto/Sunnybrook Hospital, Canada

Nobuhiko Hata
The University of Tokyo, Japan

Ron Kikinis
Brigham and Women’s Hospital and Harvard Medical School, USA

Lutz Nolte
University of Bern, Germany

Ralph Mosges
IMSEI Univ. of Cologne, Germany

Bart M. ter Haar Romeny
Eindhoven University of Technology, The Netherlands

Steven Haker
Brigham and Women’s Hospital and Harvard Medical School, USA
Local Organizing Committee

Ichiro Sakuma  
The University of Tokyo, Japan
Mitsuo Shimada  
Kyushu University, Japan
Nobuhiko Hata  
The University of Tokyo, Japan
Etsuko Kobayashi  
The University of Tokyo, Japan

MICCAI Board

Alan C.F. Colchester  
University of Kent at Canterbury, UK  
(General Chair)

Nicholas Ayache  
INRIA Sophia Antipolis, France
Anthony M. DiGioia  
UPMC Shadyside Hospital, Pittsburgh, USA
Takeyoshi Dohi  
University of Tokyo, Japan
James Duncan  
Yale University, New Haven, USA
Karl Heinz Höhne  
University of Hamburg, Germany
Ron Kikinis  
Harvard Medical School, Boston, USA
Stephen M. Pizer  
University of North Carolina, Chapel Hill, USA
Richard A. Robb  
Mayo Clinic, Rochester, USA
Russell H. Taylor  
Johns Hopkins University, Baltimore, USA
Jocelyne Troccaz  
University of Grenoble, France
Max A. Viergever  
University Medical Center Utrecht, The Netherlands
Dohi, T.; Kikins, R. (Eds.)
2002, LVIII, 808 p., Softcover
ISBN: 978-3-540-44224-0