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Medical Content-Based Retrieval for Clinical Decision Support

Second MICCAI International Workshop, MCBR-CDS 2011
Toronto, ON, Canada, September 22, 2011
Revised Selected Papers

Volume Editors

Henning Müller
University of Applied Sciences
Western Switzerland
TechnoArk 3
3960 Sierre, Switzerland
E-mail: henning.mueller@hevs.ch

Hayit Greenspan
Tel Aviv University
Department of Biomedical Engineering
The Iby and Aladar Fleischman Faculty of Engineering
Ramat Aviv, Israel
E-mail: hayit@eng.tau.ac.il

Tanveer Syeda-Mahmood
Multi-modal Mining for Healthcare
IBM Almaden Research Center
650 Harry Road, San Jose, CA 95120, USA
E-mail: stf@almaden.ibm.com

ISSN 0302-9743 e-ISSN 1611-3349
ISBN 978-3-642-28459-5 e-ISBN 978-3-642-28460-1
DOI 10.1007/978-3-642-28460-1
Springer Heidelberg Dordrecht London New York

Library of Congress Control Number: 2012931414

CR Subject Classification (1998): J.3, I.5, H.2.8, I.4, H.3, H.5

LNCS Sublibrary: SL 6 – Image Processing, Computer Vision, Pattern Recognition, and Graphics

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Typesetting: Camera-ready by author, data conversion by Scientific Publishing Services, Chennai, India

Printed on acid-free paper

Springer is part of Springer Science+Business Media (www.springer.com)

Preface

This document contains articles from the Second Workshop on Medical Content-Based Retrieval for Clinical Decision Support (MCBR-CDS) that took place at the MICCAI (Medical Image Computing for Computer-Assisted Intervention) 2011 conference in Toronto, Canada, during September 22, 2011. The first workshop on this topic took place at MICCAI 2009 in London, UK. An earlier workshop on medical image retrieval was conducted at MICCAI 2007, Brisbane, Australia

The workshop obtained 17 high-quality submissions of which 11 were selected for presentation after three external reviewers and one workshop organizer reviewed each of the papers. The review process was double blind.

Although this was only a small workshop, the quality of the submissions compared to the 2009 workshop had significantly increased and thus also the acceptance rate of above 50% was justified. The papers were from a total of nine different countries and from four continents, highlighting the diversity of submissions.

At the workshop two invited presentations were given in addition to the 11 oral presentations. Two invited speakers gave overviews from state-of-the-art academic research (Nicholas Ayache, INRIA, France) and industrial (Dorin Comaniciu, Siemens Corporate Research, USA) perspectives in the domain. A panel at the end discussed the role of content-based image retrieval in clinical decision support. In general, the workshop resulted in many lively discussions and showed well the current trends and tendencies in content-based medical retrieval and how this can support decisions in clinical work.

These proceedings contain the 11 accepted papers of the workshop as well as the invited presentation given by Nicholas Ayache on image retrieval.

An overview of the workshop is included first, summarizing the papers and the discussions that took place at the workshop itself.

We would like to thank all the reviewers that helped make a selection of high-quality papers for the workshop. The many comments also made the presented papers much better than their initial versions. We hope to have a similar workshop in next year's MICCAI conference.

September 2011

Henning Müller
Hayit Greenspan
Tanveer Syeda-Mahmood

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Sponsors

European Commission 7th Framework Programme, projects Khresmoi (257528), Promise (Promise), Chorus+ (249008) and the Swiss National Science Foundation (205321–130046). Thanks also to IBM for their support.

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