

Modeling and Simulation in Medicine Symposium (MSM 2016)

2016 Spring Simulation Multi-Conference (SpringSim'16)

Simulation Series Volume 48 Number 6

Pasadena, California, USA

3 - 6 April 2016

Editors:

Jerzy W. Rozenblit

Johannes Sametinger

ISBN: 978-1-5108-2320-4

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571
www.proceedings.com



Some format issues inherent in the e-media version may also appear in this print version.

© 2016 SIMULATION COUNCILS, INC.

Responsibility for the accuracy of all statement in each paper rests solely with the author(s). Statements are not necessarily representative of, nor endorsed by, The Society for Modeling and Simulation International.

Printed by Curran Associates, Inc. (2016)

Permission is granted to photocopy portions of this publication for personal use and for the use of students provided credit is given to the conference and publication. Permission does not extend to other types of reproduction nor to copying for incorporation into commercial advertising nor for any other profit-making purpose. Other publications are encouraged to include 300- to 500-word abstracts or excerpts from any paper contained in this book, provided credits are given to the author and the conference. For permission to publish a complete paper write: The Society for Modeling and Simulation International (SCS), 2598 Fortune Way, Suite I, San Diego, CA 92081, USA.

Additional copies of the Proceedings are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571
curran@proceedings.com
www.proceedings.com/0128.html

or

The Society for Modeling
and Simulation International
2598 Fortune Way, Ste I
Vista, CA 92081 USA
www.scs.org

ISBN: 978-1-5108-2320-4
PRINTED IN THE UNITED STATES

TABLE OF CONTENTS

Modeling and Simulation in Clinical Trials	1
<i>I. Abbas</i>	
Simulation Environment for Testing Security and Privacy of Mobile Health Apps	7
<i>A. Mense, P. Urbauer, S. Sauer mann, H. Wahl</i>	
Blood Flow Simulations with Application to Cerebral Aneurysms	12
<i>W. Fenz, J. Dirnberger, I. Georgiev</i>	
Modeling of a Transfer Task in Computer Assisted Surgical Training	20
<i>M. Hong, J.W. Rozenblit</i>	
Rigorous Modeling and Analysis of Interoperable Medical Devices	26
<i>A. Mashkoor, J. Sametinger</i>	
Modeling and Simulation for Pediatric Sleep and Education Performance Correlations	34
<i>J. Roveda, M. Perfect, S.F. Quan</i>	
Comparative Analysis of Classification Models in Diagnosis of Type 2 Diabetes	38
<i>D. Almadni, A. Abhari</i>	
Author Index	