

INTERNATIONAL JOURNAL OF COMPUTATIONAL MODELS AND ALGORITHMS IN MEDICINE

April-June 2012, Vol. 3, No. 2

Table of Contents

SPECIAL ISSUE ON PRIVACY IN HEALTH INFORMATICS

GUEST EDITORIAL PREFACE

- i** Soon Ae Chun, *Columbia University & CUNY-College of Staten Island, USA*
Jaideep Vaidya, *Rutgers, The State University of New Jersey, USA*

RESEARCH ARTICLES

- 1** **Towards HIPAA-Compliant Healthcare Systems in Cloud Computing**
Ruoyu Wu, *Arizona State University, USA*
Gail-Joon Ahn, *Arizona State University, USA*
Hongxin Hu, *Delaware State University, USA*
- 23** **Audit Mechanisms in Electronic Health Record Systems:
Protected Health Information May Remain Vulnerable to Undetected Misuse**
Jason King, *North Carolina State University, USA*
Ben Smith, *North Carolina State University, USA*
Laurie Williams, *North Carolina State University, USA*
- 43** **Managing Privacy and Effectiveness of Patient-administered Authorization Policies**
Thomas Trojer, *University of Innsbruck, Austria*
Basel Katt, *University of Innsbruck, Austria*
Ruth Breu, *University of Innsbruck, Austria*
Thomas Schabetsberger, *ITH-icoserve Technology for Healthcare, Austria*
Richard Mair, *ITH-icoserve Technology for Healthcare, Austria*
- 63** **Systematic Redaction for Neuroimage Data**
Matt Matlock, *Center for Biological Systems Engineering, Department of Pathology and Immunology, Washington University School of Medicine, USA*
Nakeisha Schimke, *Institute of Bioinformatics and Computational Biology, Tandy School of Computer Science, University of Tulsa, USA*
Liang Kong, *Institute of Bioinformatics and Computational Biology, Tandy School of Computer Science, University of Tulsa, USA*
Stephen Macke, *Institute of Bioinformatics and Computational Biology, Tandy School of Computer Science, University of Tulsa, USA*
John Hale, *Institute of Bioinformatics and Computational Biology, Tandy School of Computer Science, University of Tulsa, USA*