Challenges and Opportunities of Healthgrids

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The contributions of this publication follow mainly five main topics: Medical Imaging on the Grid; Ethical, Legal and Privacy Issues on HealthGrids; Bioinformatics on the Grid; Knowledge Discovery on HealthGrids and Medical Assessment and HealthGrid Applications. The maturity of the discipline of HealthGrids is clearly reflected on these subjects. There are more contributions related to two main application areas (Medical Imaging and Bioinformatics), confirming the analysis of the HealthGrid White Paper published last year, which outlined them as the two more promising areas for HealthGrids. Along with these two areas, the assessment on the results of HealthGrid applications, also focused by several contributions, denotes also the maturity of HealthGrids. Finally the other two areas (Knowledge Discovery and Ethical, Legal and Privacy Issues) focus on basic technologies which are very relevant for HealthGrids.
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Part I. Medical Imaging on the Grid
- Service-Oriented Architecture for Grid-Enabling Medical Applications / A. Bucur, R. Kootstra, J. Van Leeuwen and H. Obbink
- Using the Grid to Analyze the Pharmacokinetic Modelling After Contrast Administration in Dynamic MRI / I. Blanquer, V. Hernández, D. Monleón, J. Carbonell, D. Moratal, B. Celda, M. Robles and L. Martí-Bonmatí
- Medical Image Registration Algorithms Assessment: Bronze Standard Application Enactment on Grids Using the MOTEUR Workflow Engine / T. Glatard, J. Montagnat and X. Pennec

Part II. Ethical, Legal and Privacy Issues on HealthGrids
- The Ban on Processing Medical Data in European Law: Consent and Alternative Solutions to Legitimate Processing of Medical Data in HealthGrid / J. Herveg
- Development of Grid Frameworks for Clinical Trials and Epidemiological Studies / R. Sinnott, A. Stell and O. Ajayi
- Privacy Protection in HealthGrid: Distributing Encryption Management over the VO / E. Torres, C. De Alfonso, I. Blanquer and V. Hernández
- Secured Distributed Service to Manage Biological Data on EGEE Grid / C. Blanchet, R. Mollon and G. Deléage

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