

## **Grid Enabled Medical Informatics in Vietnam**

**Dao Van TUYET**

IAMI, VN

The advances in biomedical computing, the abundance of biomedical and genomic data, the ubiquity of the internet and general acceptance of Grid Computing in various aspects of medical, biological and healthcare research and practice. Recently some institution in Vietnam have started and completed to set up the Grid infrastructure, the sharing of knowledge and exchange of diagnosis between physicians contribute to improve the standard of medical knowledge has been considered. By using web services technology and grid services provided by the gLite middleware, the HOPE telemedicine Platform that developed at LPC Clermont-Ferrand has been implemented on grid site at Institute of Applied Mechanics and Informatics - IAMI, the physicians access the platform using web portal to access several distributed medical services that manage the traditional alphanumeric information such as patient personal data, diagnosis, results for analysis and investigation, medical images are stores anonymized and encrypted on the grid which their metadata are stored in the local AMGA server. We are currently deployed on the selected telemedicine applications using servers that connected to VinaREN network. With that real situation, IAMI initiatively cooperated with Pasteur Institute in HCM City to apply GVSS (GAP Virtual Screening Service) tool based on the power of Grid Computing (EUAsiaGrid) to solve docking problem (first stage in the drug discovery process) for Dengue virus.

Keyword: EUAsiaGrid, HOPE telemedicine Platform, GAP Virtual Screening Service, gLite middleware, AMGA server.