The AMS Monitoring Interface a web 2.0 approach

Content:
The Alpha Magnetic Spectrometer is an experiment meant to operate on the International Space Station for 10 years starting from 2010. In addition to scientific data, a large amount of information about the status of the various AMS subsystems is sent to the ground and stored in binary files. We developed an extensible framework to store these data in a relational database and to offer a customizable web display of these data. An data access API is also provided via XMLRPC to various programming languages as python, C, C++, ruby. The web application performing all the task is based on the python framework Web2Py which provides a DataBase Abstraction Layer to seamless use different DB backend and implements a Model-View-Controller paradigm. The use of such web 2.0 approach allows for each subsystem expert to gradually include the decoding and the displaying of the relevant data and allows the users to have platform independent and scalable access to AMS monitoring data.

Primary authors: Dr. ZUCCON, Paolo (INFN Sezione di Perugia) ; Mr. ALBERTI, Gabriele (INFN Sezione di Perugia)

Co-authors:
Presenter: Dr. ZUCCON, Paolo (INFN Sezione di Perugia) ; Mr. ALBERTI, Gabriele (INFN Sezione di Perugia)

Session classification: --not yet classified--

Track classification: Online Computing
Type: Oral Presentation