

Application for Financial Aid

• Applicant Information

Name of Applicant	Kulkarni Pallavi Chandrakant
Position Title	Project Officer
Institution	IUCAA, Pune
Postal Address	Kulkarni Pallavi Chandrakant, Project Officer, IUCAA, Post Bag 4, Ganeshkhind, Pune-411007. MAHARASHTRA, INDIA.
Email Address	pck@iucaa.ernet.in
Phone Number	91-20-5691414
Citizenship	INDIAN
Academic level	Engineering Graduate

• Vita and Bibliography

A brief introduction to my contribution to Virtual Observatory:

I have been working with Virtual Observatory since March, 2002. As part of this project, I have developed following tools:

- **Web based FITS Manager:** **FITS Manager** is a web-based tool for viewing, creating and editing FITS files, and for converting FITS images to other image formats.
- **VOTable JAVA streaming writer:** This library provides APIs which use **stream** based approach to write data in VOTable format. The advantage of streaming approach is efficient usage of memory.
- **ASCII & FITS to VOTable converter:** This is the tool for conversion of ASCII & FITS tables to VOTable files.

Vita

Name:	Kulkarni Pallavi Chandrakant.
Date of birth:	29 th June, 1980.
Nationality:	Indian.
Passport Number:	E1388980
Official Address:	Kulkarni Pallavi Chandrakant, Project Officer, IUCAA, Post Bag 4, Ganeshkhind, Pune-411007. Maharashtra, INDIA.
Experience:	1 year and nine months. Since August, 2001
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Educational Qualifications:	
Diploma in computer Engineering (D.C.E.)	83.33% (Distinction)
Bachelor in computer Engineering (B.E.)	64.10% (First class)
Institutions with which I collaborate in Research:	1. Persistent Systems Private Limited, Pune, India. 2. Centre de Données astronomiques de Strasbourg (CDS), Strasbourg, France.
Contribution to Virtual Observatory:	1. Web based FITS Manager 2. VOTable JAVA streaming writer. 3. ASCII & FITS to VOTable converter.

Presentation Information

Presentation Type:	Oral
Presentation Title:	VOTable JAVA Streaming writer and applications.
Abstract:	<p>Virtual Observatory related tools use a new standard for data transfer called VOTable format. The VOTable format is the variant of xml format that enables easy transfer of data over the web.</p> <p>We describe a streaming interface that can bridge the VOTable format with the FITS and ASCII formats, which are commonly used by astronomers, through a user friendly graphical interface. A streaming interface is important for efficient use of memory because of the large size of catalogues. The tools are developed in JAVA to provide a platform independent interface. We have also developed a stand-alone version that can be used on local machine to convert data stored in ASCII & FITS format. The streaming writer is successfully being used in voplot.</p> <p>We demonstrate usefulness of the tool by converting huge FITS & ASCII data into VOTable format on machines that have only limited memory.</p>

• Requested Financial Aid

Hotel	For the period of the Conference.
Registration Fee	Yes.
Demo Fee	No.
International travel	Yes. Due to low value of Indian rupee, I am greatly dependent on your support for my international travel.

• Letter of recommendation

Professor Ajit Kembhavi (email: akk@iucaa.ernet.in), Inter University Center for Astronomy and Astrophysics (IUCAA), Pune, India and **T.M.Vijayaraman** (email: vijay@persistent.co.in), Persistent Systems, Pune, India who both know me personally have agreed to send the letter of recommendation for my financial support.