

The *Updated*  
JACoW Upload/Download Scripts  
(JUDS)

Ivan Andrian

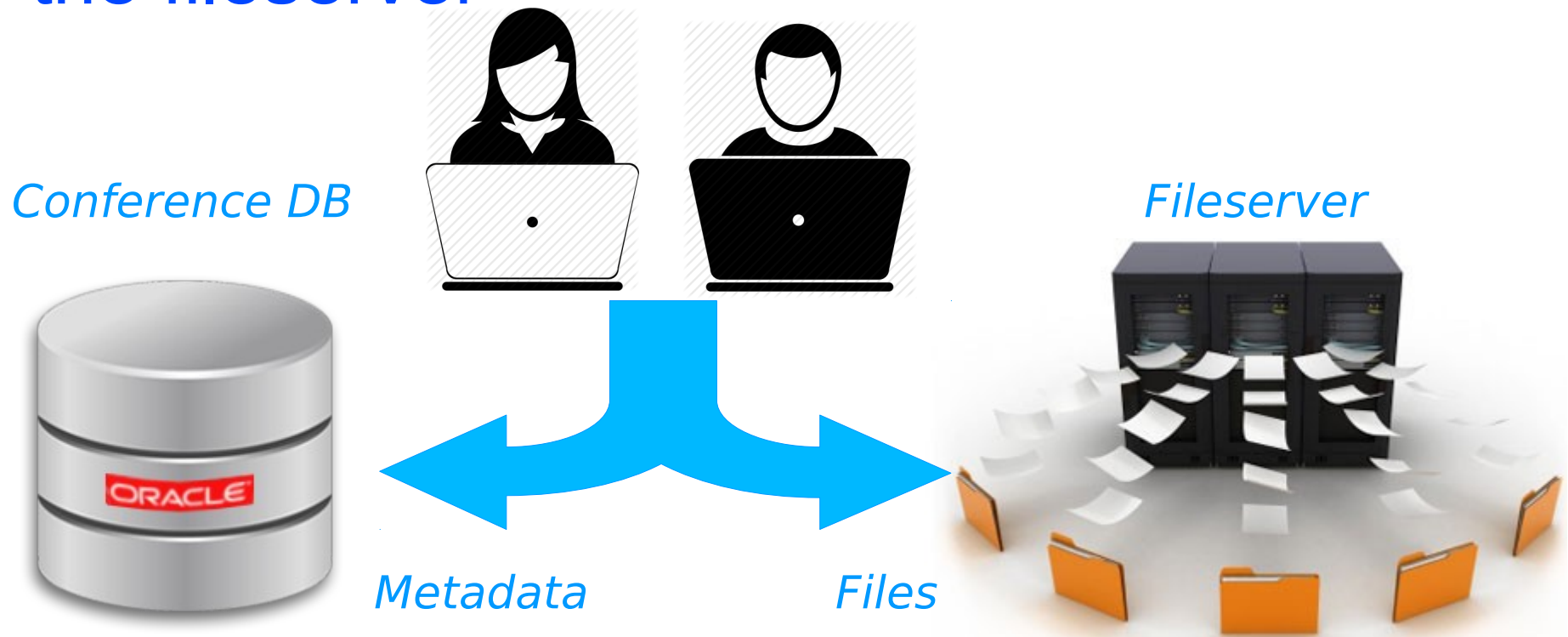
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## What are JUDS for?

- A GLUE between the user, the SPMS and the fileserver



## ... and the editor



*Conference DB*



*Fileserver*

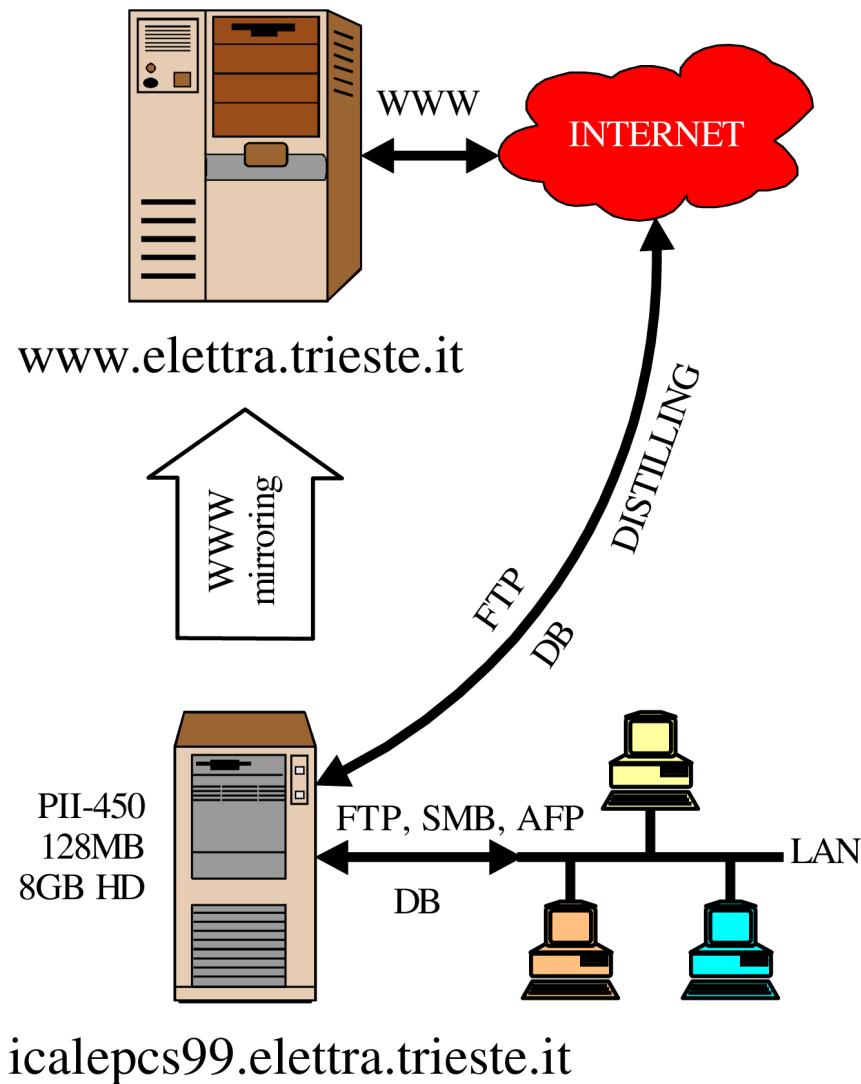
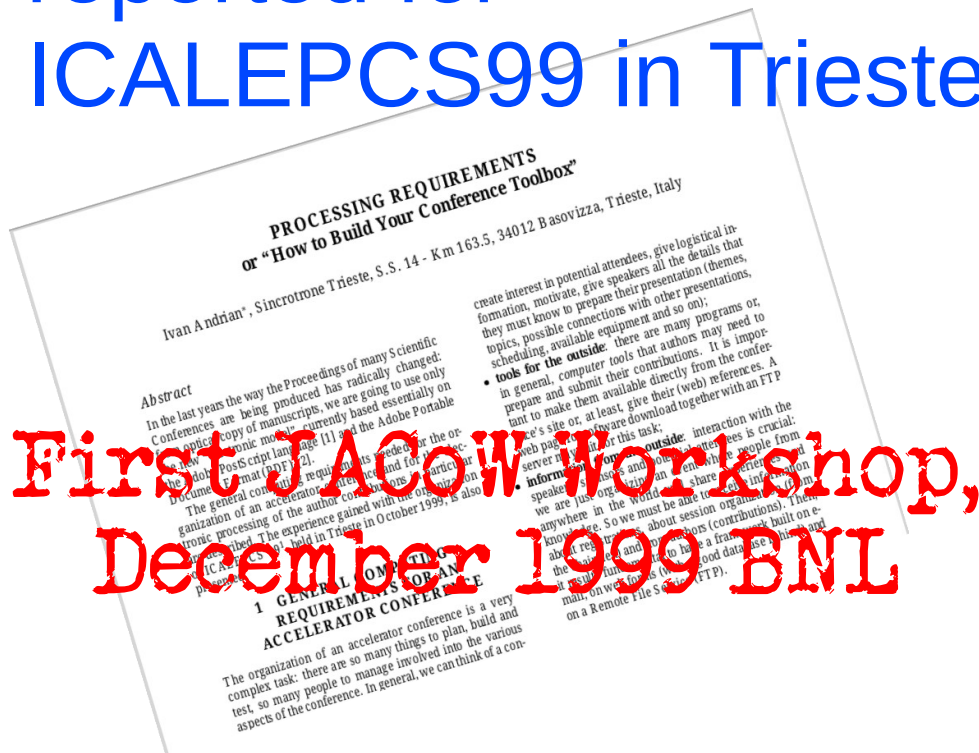


## What in between?

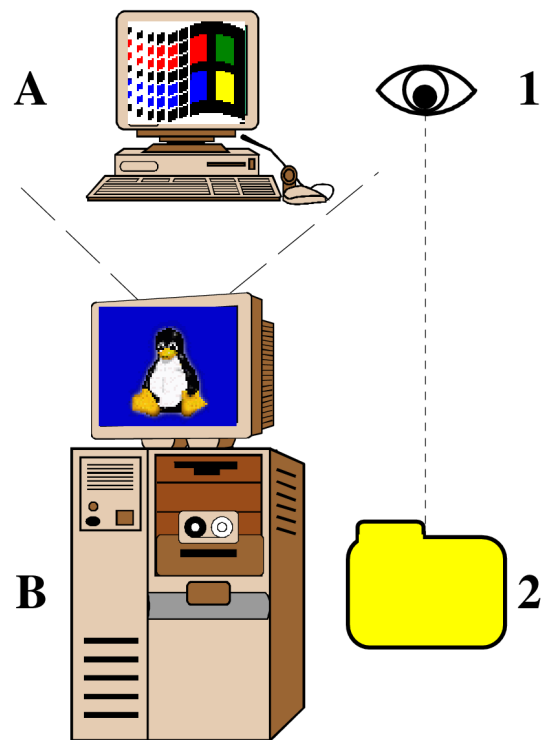
- Distill!
  - PS to PDF
  - PDF to PDF  
(optimisation)
  - Check for distillability, fonts, margins  
(user review)

## Quick timeline

- First JACoW attempt reported for ICALEPCS99 in Trieste



## Our first “distiller server,”



A - Virtual NT 4 workstation running into VMWARE

B - Linux-based PC for Networking and database

1 - Acrobat Distiller 4 for Windows watching a folder on the 'real' machine (2)

2 - Shared directory (e.g., /home/distillserv)

Windows NT4 on top of a Linux box with VMWARE

## Since 2012...

- Distill is performed either by external tool (VMware) or by GhostScript
- After some tuning GS distill is mature
- Very secure (protecting papers from unwanted downloads)

## Since 2014

- Forced authors list & metadata check

### TM 2014 File Upload

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**Abstract:** THAA1 IT Software/Hardware/Networking: The Updated JACoW Upload/Download Scripts (JUDS)

**Paper ID** THAA1

**Presentation Type** Invited Oral

**Program Session** THAA -- IT Software/Hardware/Networking

01/15/2015 0900 -- 1030

Main Conference Room

**File Type**

**Platform**

**File to Upload**  No file selected.

**Comments (Optional)**

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## Less work for data crosschecking

### TM 2014 Abstract and Author List Verification

Ivan Andrian 

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<b>Title</b>	IT Software/Hardware/Networking: The Updated JACoW Upload/Download Scripts (JUDS)	<b>Submitted</b>	29-SEP-14 03:46 PM (Europe/Paris)
<b>Classification</b>	10 Software, Hardware	<b>Modified</b>	29-SEP-14 03:52 PM (Europe/Paris)
<b>Speaker:</b>	Ivan Andrian	<b>Presentation</b>	Invited Oral
<b>Author(s)</b>	Ivan Andrian (Elettra-Sincrotrone Trieste S.C.p.A., Basovizza)	<b>Paper ID</b>	THAA1
<b>Abstract</b>	Overview of the JACoW Upload/Download Scripts. <i>Word Count: 6 Character Count: 45</i>	<b>Paper PDF</b>	<a href="#">Download</a>
<b>Footnote</b>			
<b>Funding Agency</b>			

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## There's a reason

### FERMI STATUS REPORT

M. Svandrik<sup>#</sup>, E. Allaria, F. Bencivenga, C. Callegari, F. Capotondi, D. Castronovo, P. Cinquegrana, M. Coreno, R. Cucini, I. Cudin, M.B. Danailov, G. D'Auria, R. De Monte, G. De Ninno, P. Delgiusto, A. Demidovich, S. Di Mitri, B. Diviacco, A. Fabris, R. Fabris, W. M. Fawley, M. Ferianis, E. Ferrari, P. Finetti, L. Fröhlich, P. Furlan Radivo, G. Gaio, D. Gauthier, F. Gelmetti, L. Giannessi, M. Kiskinova, S. Krecic, M. Lonza, N. Mahne, C. Masciovecchio, M. Milloch, F. Parmigiani, G. Penco, L. Pivetta, O. Plekan, M. Predonzani, E. Principi, L. Raimondi, P. Rebernik Ribic, F. Rossi, L. Rumiz, C. Scafuri, C. Serpico, P. Sigalotti, C. Spezzani, C. Svetina, M. Trovò, A. Vascotto, M. Veronese, R. Visintini, D. Zangrando, M. Zangrando, Elettra, Trieste, Italy

#### Abstract

FERMI, the seeded Free Electron Laser (FEL) located at the Elettra laboratory in Trieste, Italy, consists of two FEL lines. The FEL-1 facility, covering the wavelength range between 20 and 100 nm, was officially opened to external users. The shorter wavelength range, between 20 and 4 nm, is covered by the FEL-2 line, a double stage cascade operating in the "fresh bunch injection" mode, which is still under commissioning. We will report on the different FEL-1 operation modes that can be offered for users and assess the performance of the facility. The progress in the commissioning of FEL-2 will then be addressed, in particular reporting the performance attained at the lower wavelength limit; this aspect is of

Along with operation of FEL-1 and commissioning of FEL-2, the construction completion activities and the first upgrades are progressing. Three more beamlines are under construction and will be completed by 2015. First upgrades are concentrated on the linac. The new 50 Hz photocathode gun has been installed and commissioned during 2013. The linac energy finally attained 1.56 GeV. Two more accelerating structures are in construction and will be installed in 2015. This will give operating margin on the nominal energy and is part of an upgrade program which has been launched to get an even more reliable and robust facility for our user's community.

#### FEL-1 OPERATION FOR USERS

Three calls for proposals of experiment on FERMI have

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				Claudio Scafuri	Elettra-Sincrotrone Trieste S.C.p.A.		

## And then...

- Author can upload, let the system distill, check the result, eventually fix the problems

## Future

- Let the SPMS create the wrappers for possible future templates
  - First page (wrapper): Title, authors' list, abstract
  - Last page(s) (wrapper): References
  - Scientific content in between
- Big impact on the final layout:

## Big impact on the final layout

- Stakeholders agreed on experimenting

**PREPARATION OF PAPERS FOR JACoW CONFERENCES\***

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*Abstract*  
Both the JACoW team and Stakeholders, in different times, started thinking of changing the way the scientific content is being submitted to conferences and, then, will go into the proceedings.

The basic idea is to let the authors focus on the scientific content, leaving to some automated procedure the burden of creating the "wrappers" of any paper, i.e. the title, authors list, abstract and references. A possible solution is here proposed, together with a migration timetable.

Standard JACoW template abstract follows:

Many conference series have adopted the same standards for electronic publication and have joined the Joint Accelerator Conference Website (JACoW) collaboration [1] for the publications of their proceedings. This document describes the common requirements for the submission of papers to these conferences. Please consult individual conference information for page limits, method of electronic submission, etc. It is not intended that this should be a manual in word processing; the aim is to explain the particular requirements for electronic publication at these conference series.

**THE PRESENT STATUS**

The current workflow for an author, when submitting his "paper" to a conference, usually follows this flow:

- submit an abstract;
- define the list of authors in the SPMS;
- when the abstract is accepted, write the paper using L<sup>A</sup>T<sub>E</sub>X, Word, LibreOffice, whatever;
- create the PDF;
- upload all the files onto the SPMS.

The editor, on the counterpart, needs to check and edit the PDF, including presence and formatting of references, check the title in the PDF if consistent with that from the initial abstract (which will be sent to the authors), check the authors list (formatting, all authors present on both parts, etc.).

All this processes are really time consuming. The references often have inconsistent format and, together with the title, authors list and abstract, take space from the core, scientific, content.

**THE GOAL**

The final result should:

- give more space to the author for the scientific content;
- get rid of the data already in the DB from the "paper" to avoid redundancy and inconsistency;
- save the editor's time removing the consistency check for references, title, authors list;
- have well formatted references, everywhere;
- have links to referred papers;
- apply page limits only to the core content, i.e. not counting the first and the references pages.

**The Next Workflow**

For the author:

- submit an abstract;
- define the list of authors in the SPMS;
- when the abstract is accepted, write the paper using L<sup>A</sup>T<sub>E</sub>X, Word, LibreOffice, whatever, without creating the title, authors list, the references;
- create the PDF;
- upload all the files onto the SPMS;
- create the list of references in the SPMS:
  - for JACoW papers, search them in the SPMS and select them;
  - for non-JACoW papers, insert the text in a loose structure (conference/journal, date, site, authors, ...)

And the editor will check the paper and do manual links of the references.

When the proceedings are generated, the data in the SPMS is used to automatically create the first page (title, authors list and abstract) and the references to PDF format. These "wrapper" papers are then attached to the (ordered) PDF from the author.

**PAGE NUMBERS**

DO NOT include any page numbers. They will be added when the final proceedings are produced.

**TEMPLATES**

Templates and examples can be retrieved through Web browsers like Mozilla Firefox and Internet Explorer by saving to disk. See your local documentation for details about how to do this [5].

Template documents for the recommended word processing software are available from the JACoW Website and exist for L<sup>A</sup>T<sub>E</sub>X, Microsoft Word (Mac and PC) and OpenOffice for US letter and A4 paper sizes. Use the correct templates for your paper size and version of Word. Do not mixup Microsoft Word documents across platforms, e.g. Mac-PC. When saving a Word 2010 file (PC), be sure to click "Embed font in the Source option."

Please see the information and help files for authors on the JACoW.org web site for instructions on how to install templates in your Microsoft templates folder.

**CHECKLIST FOR ELECTRONIC PUBLICATION**

- Use only Times or Times New Roman (standard, bold or italic) and Symbol fonts for text – 10 pt minimum except References, which can be 9 pt or 10 pt.
- Figures use Times New Roman (bold or italic) and Symbol fonts when possible – 9 pt minimum.
- Check that the PDF file prints correctly according to instructions in the conference web site.
- Check that there are no page numbers.
- Check that the margins on the printed version are within ±1 mm of the specification.
- L<sup>A</sup>T<sub>E</sub>X users can check their margins by invoking the *Auto* option.

**ACKNOWLEDGMENT**

Any acknowledgment should be in a separate section directly preceding the References section.

**REFERENCES**

[1] C. Petit-Jean-Genaz and J. Poole, "JACoW: A Service to the Accelerator Community," EPAC'04, Lucerne, July 2004, THZC03, p. 249 (2004), <http://www.JACoW.org>.

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[4] F.E. Black et al., *This is a Very Interesting Book*, (New York: Koenig, 2007), 52.

[5] G.B. Smith et al., "Title of Paper," MOXAP'07, these proceedings.

[1] A.N. Osher, "A Very Interesting Paper," EPAC'96, Stages, June 1996, MORCH11, p. 7984 (1996), <http://www.JACoW.org> (no period after URL).

[2] F.E. Black et al., *This is a Very Interesting Book*, (New York: Koenig, 2007), 52.

[3] G.B. Smith et al., "Title of Paper," MOXAP'07, these proceedings.

Melbourne, January 2015

JACoW Team Meeting 2014

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## What will change

- New development in the SPMS for new interfaces and for automatic wrapper creation
- Authors will have to use the SPMS for their references too
- Not 100% final format guarantee
- Test stage should be performed

Thanks