

Migrating from lncs to iacrcc

Converting a paper from Springer's lncs LaTeX style file (as used in Crypto, Eurocrypt, Asiacrypt, TCC and PKC) to IACR's iacrcc LaTeX style file means adjusting how some of the meta-data is provided. Concretely, the biggest change involves adjusting the title, author and affiliation information. This guide doesn't cover every detail, and the full documentation is located here.

Our starting point

Let's use a slightly adjusted version of the LNCS template as an example:

```
\documentclass[runningheads]{lncs}
\begin{document}
\title{Contribution Title}
\titlerunning{Abbreviated paper title}
\author{First Author\inst{1}\orcidID{0000-1111-2222-3333} \and
Second Author\inst{2,3}\orcidID{1111-2222-3333-4444} \and
Third Author\inst{3}\orcidID{2222-3333-4444-5555}}
\institute{Princeton University, Princeton NJ 08544, USA \and
Springer Heidelberg, Tiergartenstr. 17, 69121 Heidelberg, Germany}
\email{lncs@springer.com}\
\url{http://www.springer.com/gp/computer-science/lncs} \and
ABC Institute, Rupert-Karls-University Heidelberg, Heidelberg, Germany\
\email{\{abc,lncs\}@uni-heidelberg.de}}
\maketitle
\begin{abstract}
The abstract should briefly summarize the contents of the paper in
15--250 words.
\keywords{First keyword \and Second keyword \and Another keyword.}
\end{abstract}
\section{Introduction}
We use RSA~\cite{RSA78}.
\bibliographystyle{splncs04}
\bibliography{mybibliography}
\end{document}
```

Where we assume a file mybibliography.bib exists which contains:

```
@article{RSA78,
  author    = {Ronald L. Rivest and Adi Shamir and Leonard M. Adleman},
  title     = {A Method for Obtaining Digital Signatures and Public-Key Cryptosystems},
  pages     = {120--126},
  year      = {1978},
  journal   = {Communications of the {ACM}},
  volume    = {21},
  number    = {2},
  publisher = {ACM New York, NY, USA},
```

```

    doi      = {10.1145/359340.359342},
}

```

Document class

The conversion starts by changing the `llnscs` document class to the `iacrcc` document class. Simply change

```
\documentclass[runningheads]{llnscs}
```

to

```
\documentclass{iacrcc}
```

Title

The title and related information should be provided differently using a number of options. Instead of:

```

\title{Contribution Title}
\titlerunning{Abbreviated paper title}

```

One should use

```
\title[running={Abbreviated paper title}]{Contribution Title}.
```

If macros (or math) are used in the title then make sure to provide a plaintext version using the `plaintext` option on `\title`.

Author and affiliations

Author and affiliation information are provided one at-a-time. Moreover, e-mail addresses and webpages are linked to an author (not the affiliation). So the `llnscs` code

```

\author{First Author\inst{1}\orcidID{0000-1111-2222-3333} \and
Second Author\inst{2,3}\orcidID{1111-2222-3333-4444} \and
Third Author\inst{3}\orcidID{2222-3333-4444-5555}}
\institute{Princeton University, Princeton NJ 08544, USA \and
Springer Heidelberg, Tiergartenstr. 17, 69121 Heidelberg, Germany
\email{lncs@springer.com}}
\url{http://www.springer.com/gp/computer-science/lncs} \and
ABC Institute, Rupert-Karls-University Heidelberg, Heidelberg, Germany\\
\email{\{abc,lncs\}@uni-heidelberg.de}}

```

needs to be converted into

```

\addauthor[inst=1,
           orcid={0000-1111-2222-3333},
           email={lncs@springer.com},
           onclick={http://www.springer.com/gp/computer-science/lncs}]{First Author}

```

```

\addauthor[inst={2,3},
           orcid={1111-2222-3333-4444},
           email={abc@uni-heidelberg.de}]{Second Author}
\addauthor[inst=3,
           orcid={2222-3333-4444-5555},
           email={lncs@uni-heidelberg.de}]{Third Author}

```

and the affiliations become

```

\addaffiliation[city={Princeton},
                state={NJ},
                postcode={08544},
                country={USA}]{Princeton University}
\addaffiliation[street={Tiergartenstr. 17},
                postcode={69121},
                city={Heidelberg},
                country={Germany}]{Springer Heidelberg}
\addaffiliation[department={ABC Institute},
                city={Heidelberg},
                country={Germany}]{Rupert-Karls-University Heidelberg}

```

Keywords, abstract, and bibliography

Keywords are defined before the abstract and separated by a comma. This means

```
\keywords{First keyword \and Second keyword \and Another keyword.}
```

needs to be changed to

```
\keywords{First keyword, Second keyword, Another keyword}
```

The abstract is still typeset using `\begin{abstract}` and authors are free to use whatever macros they like.

The style for the references is defined by the journal style, so remove `\bibliographystyle{splnsc04}`.

The final conversion.

Putting everything together we end up with the converted llncs template to the iacrcc style.

```

\documentclass{iacrcc}
\begin{document}
\title[running={Abbreviated paper title}]{Contribution Title}
\addauthor[inst=1,
           orcid={0000-1111-2222-3333},
           email={lncs@springer.com},
           onclick={http://www.springer.com/gp/computer-science/lncs}]{First Author}

```

```

\addauthor[inst={2,3},
            orcid={1111-2222-3333-4444},
            email={abc@uni-heidelberg.de}]{Second Author}
\addauthor[inst=3,
            orcid={2222-3333-4444-5555},
            email={lncs@uni-heidelberg.de}]{Third Author}
\addaffiliation[city={Princeton},
                state={NJ},
                postcode={08544},
                country={USA}]{Princeton University}
\addaffiliation[street={Tiergartenstr. 17},
                postcode={69121},
                city={Heidelberg},
                country={Germany}]{Springer Heidelberg}
\addaffiliation[department={ABC Institute},
                city={Heidelberg},
                country={Germany}]{Rupert-Karls-University Heidelberg}

\maketitle
\keywords{First keyword, Second keyword, Another keyword}
\begin{abstract}
The abstract should briefly summarize the contents of the paper in
15--250 words.
\end{abstract}
\section{Introduction}
We use RSA~\cite{RSA78}.
\bibliography{mybibliography}
\end{document}

```

What else is there?

This was designed to get you started in the basic conversion from llncs to iacrcc. There are other features for anonymous submission versions and final versions. These are mentioned in the full documentation.