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— Abstract -

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2012 ACM Subject Classification Replace ccsdesc macro with valid one

Keywords and phrases Dummy keyword

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Acknowledgements I want to thank ...

1 Typesetting instructions – Summary

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Minimum requirements

- \blacksquare Use pdflatex and an up-to-date LATeX system.
- Use further LATEX packages and custom made macros carefully and only if required.
- Use the provided sectioning macros: \section, \subsection, \subsubsection, \paragraph, \paragraph*, and \subparagraph*.
- Provide suitable graphics of at least 300dpi (preferably in PDF format).
- Use BibTeX and keep the standard style (plainurl) for the bibliography.
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¹ Optional footnote, e.g. to mark corresponding author

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Please set the values of the metadata macros carefully since the information parsed from these macros will be passed to publication servers, catalogues and search engines. Avoid placing macros inside the metadata macros. The following metadata macros/environments are mandatory:

- \title and, in case of long titles, \titlerunning.
- \author, one for each author, even if two or more authors have the same affiliation.
- \authorrunning and \Copyright (concatenated author names)
 The \author macros and the \Copyright macro should contain full author names (especially with regard to the first name), while \authorrunning should contain abbreviated first names.
- \ccsdesc (ACM classification, see https://www.acm.org/publications/class-2012).
- \keywords (a comma-separated list of keywords).
- \relatedversion (if there is a related version, typically the "full version"); please make sure to provide a persistent URL, e.g., at arXiv.
- begin{abstract}...\end{abstract}...

Please do not ...

Generally speaking, please do not override the lipics-v2021-style defaults. To be more specific, a short checklist also used by Dagstuhl Publishing during the final typesetting is given below. In case of **non-compliance** with these rules Dagstuhl Publishing will remove the corresponding parts of LATEX code and **replace it with the lipics-v2021 defaults**. In serious cases, we may reject the LaTeX-source and expect the corresponding author to revise the relevant parts.

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- Do not alter the spacing of the lipics-v2021.cls style file.
- Do not use enumitem and paralist. (The enumerate package is preloaded, so you can use \begin{enumerate}[(a)] or the like.)
- Do not use "self-made" sectioning commands (e.g., \noindent{\bf My Paragraph}).
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- Do not use conditional structures to include/exclude content. Instead, please provide only the content that should be published in one file and nothing else.
- Do not wrap figures and tables with text. In particular, the package wrapfig is not supported.
- Do not change the bibliography style. In particular, do not use author-year citations. (The natbib package is not supported.)

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Listing 1 Useless code.

```
for i:=maxint to 0 do
begin
    j:=square(root(i));
end;
```

nec varius ac, ultricies et turpis. Pellentesque id ante erat. In hac habitasse platea dictumst. Curabitur a scelerisque odio. Pellentesque elit risus, posuere quis elementum at, pellentesque ut diam. Quisque aliquam libero id mi imperdiet quis convallis turpis eleifend.

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⊳ Claim 2. content...

Proof. content...

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- ▶ Corollary 3 (Curabitur pulvinar, [2]). Nam liber tempor cum soluta nobis eleifend option conque nihil imperdiet doming id quod mazim placerat facer possim assum. Lorem ipsum dolor sit amet, consectetuer adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat.
- ▶ Proposition 4. This is a proposition

Proposition 4 and Proposition 4 ...

2.1 Curabitur dictum felis id sapien

Curabitur dictum Corollary 3 felis id sapien Corollary 3 mollis ut venenatis tortor feugiat. Curabitur sed velit diam. Integer aliquam, nunc ac egestas lacinia, nibh est vehicula nibh, ac auctor velit tellus non arcu. Vestibulum lacinia ipsum vitae nisi ultrices eget gravida turpis laoreet. Duis rutrum dapibus ornare. Nulla vehicula vulputate iaculis. Proin a consequat neque. Donec ut rutrum urna. Morbi scelerisque turpis sed elit sagittis eu scelerisque quam condimentum. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Aenean nec faucibus leo. Cras ut nisl odio, non tincidunt lorem. Integer purus ligula, venenatis et convallis lacinia, scelerisque at erat. Fusce risus libero, convallis at fermentum in, dignissim sed sem. Ut dapibus orci vitae nisl viverra nec adipiscing tortor condimentum [1]. Donec non suscipit lorem. Nam sit amet enim vitae nisl accumsan pretium.

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- ▶ Remark 5. content...

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▶ Lemma 6 (Quisque blandit tempus nunc). Sed interdum nisl pretium non. Mauris sodales consequat risus vel consectetur. Aliquam erat volutpat. Nunc sed sapien ligula. Proin faucibus sapien luctus nisl feugiat convallis faucibus elit cursus. Nunc vestibulum nunc ac massa pretium pharetra. Nulla facilisis turpis id augue venenatis blandit. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus.

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- References -

Edsger W. Dijkstra. Letters to the editor: go to statement considered harmful. *Commun. ACM*, 11(3):147–148, 1968. doi:10.1145/362929.362947.

- 2 Jim Gray and Andreas Reuter. Transaction Processing: Concepts and Techniques. Morgan Kaufmann, 1993.
- John E. Hopcroft, Wolfgang J. Paul, and Leslie G. Valiant. On time versus space and related problems. In 16th Annual Symposium on Foundations of Computer Science, Berkeley, California, USA, October 13-15, 1975, pages 57-64. IEEE Computer Society, 1975. doi: 10.1109/SFCS.1975.23.
- 4 Donald E. Knuth. Computer Programming as an Art. Commun. ACM, 17(12):667–673, 1974. doi:10.1145/361604.361612.

A Styles of lists, enumerations, and descriptions

List of different predefined enumeration styles:

```
begin{itemize}...\end{itemize}
...
1. \begin{enumerate}...\end{enumerate}
3. ...
(a) \begin{alphaenumerate}...\end{alphaenumerate}
(b) ...
(c) ...
 (i) \begin{romanenumerate}...\end{romanenumerate}
 (ii) ...
(iii) ...
(1) \begin{bracketenumerate}...\end{bracketenumerate}
(2) ...
(3) ...
Description 1 \begin{description} \item[Description 1] ...\end{description}
Description 2 Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui.
   Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus
   massa sit amet neque.
Description 3 ...
```

B Theorem-like environments

Proposition 10 and Proposition 10 ...

List of different predefined enumeration styles:

- ▶ Theorem 7. Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa sit amet neque.
- ▶ Lemma 8. Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa sit amet neque.

- ▶ Corollary 9. Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa sit amet neque.
- ▶ Proposition 10. Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa sit amet neque.
- ▶ Conjecture 11. Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa sit amet neque.
- ▶ Observation 12. Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa sit amet neque.
- ▶ Exercise 13. Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa sit amet neque.
- ▶ Definition 14. Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa sit amet neque.
- ▶ Example 15. Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa sit amet neque.
- ▶ Note 16. Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa sit amet neque.
- ▶ Note. Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa sit amet neque.
- ▶ Remark 17. Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa sit amet neque.
- ▶ Remark. Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa sit amet neque.
- ⊳ Claim 18. Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa sit amet neque.
- \triangleright Claim. Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa sit amet neque.
- **Proof.** Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa sit amet neque.

Proof. Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa sit amet neque. \lhd