

1 Dummy title

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10 — Abstract —

11 Lorem ipsum dolor sit amet, consectetur adipiscing elit. Praesent convallis orci arcu, eu mollis dolor.
12 Aliquam eleifend suscipit lacinia. Maecenas quam mi, porta ut lacinia sed, convallis ac dui. Lorem
13 ipsum dolor sit amet, consectetur adipiscing elit. Suspendisse potenti.

14 **2012 ACM Subject Classification** General and reference → General literature; General and reference

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- 50 ■ `\authorrunning` and `\Copyright` (concatenated author names)
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- 52 cially with regard to the first name), while `\authorrunning` should contain abbreviated
- 53 first names.
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- 55 ■ `\keywords` (a comma-separated list of keywords).
- 56 ■ `\relatedversion` (if there is a related version, typically the “full version”); please make
- 57 sure to provide a persistent URL, e. g., at arXiv.
- 58 ■ `\begin{abstract}... \end{abstract}` .

59 Please do not ...

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- 75 supported.
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80 don’t hesitate to contact Dagstuhl Publishing (<mailto:publishing@dagstuhl.de>) in case
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82 lipics-v2019-authors/lipics-v2019-authors-guidelines.pdf](http://drops.dagstuhl.de/styles/lipics-v2019/lipics-v2019-authors/lipics-v2019-authors-guidelines.pdf)

■ **Listing 1** Useless code

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

83 **2** **Lorem ipsum dolor sit amet**

84 Lorem ipsum dolor sit amet, consectetur adipiscing elit [4]. Praesent convallis orci arcu, eu
 85 mollis dolor. Aliquam eleifend suscipit lacinia. Maecenas quam mi, porta ut lacinia sed,
 86 convallis ac du. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Suspendisse potenti.
 87 Donec eget odio et magna ullamcorper vehicula ut vitae libero. Maecenas lectus nulla, auctor
 88 nec varius ac, ultricies et turpis. Pellentesque id ante erat. In hac habitasse platea dictumst.
 89 Curabitur a scelerisque odio. Pellentesque elit risus, posuere quis elementum at, pellentesque
 90 ut diam. Quisque aliquam libero id mi imperdiet quis convallis turpis eleifend.

91 ► **Lemma 1** (Lorem ipsum). *Vestibulum sodales dolor et du cursus iaculis. Nullam ullam-*
 92 *corper purus vel turpis lobortis eu tempus lorem semper. Proin facilisis gravida rutrum.*
 93 *Etiam sed sollicitudin lorem. Proin pellentesque risus at elit hendrerit pharetra. Integer at*
 94 *turpis varius libero rhoncus fermentum vitae vitae metus.*

95 **Proof.** Cras purus lorem, pulvinar et fermentum sagittis, suscipit quis magna.

96 ▷ **Claim 2.** content...

97 Proof. content... ◁

98 ◀

99 ► **Corollary 3** (Curabitur pulvinar, [2]). *Nam liber tempor cum soluta nobis eleifend option*
 100 *congue nihil imperdiet doming id quod mazim placerat facer possim assum. Lorem ipsum*
 101 *dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut*
 102 *laoreet dolore magna aliquam erat volutpat.*

103 ► **Proposition 4.** *This is a proposition*

104 Proposition 4 and Proposition 4 . . .

105 **2.1 Curabitur dictum felis id sapien**

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

116 **2.2 Proin ac fermentum augue**

117 Proin ac fermentum augue. Nullam bibendum enim sollicitudin tellus egestas lacinia euismod
118 orci mollis. Nulla facilisi. Vivamus volutpat venenatis sapien, vitae feugiat arcu fringilla ac.
119 Mauris sapien tortor, sagittis eget auctor at, vulputate pharetra magna. Sed congue, dui
120 nec vulputate convallis, sem nunc adipiscing dui, vel venenatis mauris sem in dui. Praesent
121 a pretium quam. Mauris non mauris sit amet eros rutrum aliquam id ut sapien. Nulla
122 aliquet fringilla sagittis. Pellentesque eu metus posuere nunc tincidunt dignissim in tempor
123 dolor. Nulla cursus aliquet enim. Cras sapien risus, accumsan eu cursus ut, commodo vel
124 velit. Praesent aliquet consectetur ligula, vitae iaculis ligula interdum vel. Integer faucibus
125 faucibus felis.

- 126 ■ Ut vitae diam augue.
- 127 ■ Integer lacus ante, pellentesque sed sollicitudin et, pulvinar adipiscing sem.
- 128 ■ Maecenas facilisis, leo quis tincidunt egestas, magna ipsum condimentum orci, vitae
129 facilisis nibh turpis et elit.

130 ► Remark 5. content...

131 **3 Pellentesque quis tortor**

132 Nec urna malesuada sollicitudin. Nulla facilisi. Vivamus aliquam tempus ligula eget ornare.
133 Praesent eget magna ut turpis mattis cursus. Aliquam vel condimentum orci. Nunc congue,
134 libero in gravida convallis [3], orci nibh sodales quam, id egestas felis mi nec nisi. Suspendisse
135 tincidunt, est ac vestibulum posuere, justo odio bibendum urna, rutrum bibendum dolor sem
136 nec tellus.

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

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

145 **A Morbi eros magna**

146 Morbi eros magna, vestibulum non posuere non, porta eu quam. Maecenas vitae orci risus,
147 eget imperdiet mauris. Donec massa mauris, pellentesque vel lobortis eu, molestie ac turpis.
148 Sed condimentum convallis dolor, a dignissim est ultrices eu. Donec consectetur volutpat
149 eros, et ornare dui ultricies id. Vivamus eu augue eget dolor euismod ultrices et sit amet nisi.
150 Vivamus malesuada leo ac leo ullamcorper tempor. Donec justo mi, tempor vitae aliquet non,
151 faucibus eu lacus. Donec dictum gravida neque, non porta turpis imperdiet eget. Curabitur
152 quis euismod ligula.

153 — **References** —

- 154 1 Edsger W. Dijkstra. Letters to the editor: go to statement considered harmful. *Commun.*
155 *ACM*, 11(3):147–148, 1968. doi:10.1145/362929.362947.

- 156 2 Jim Gray and Andreas Reuter. *Transaction Processing: Concepts and Techniques*. Morgan
157 Kaufmann, 1993.
- 158 3 John E. Hopcroft, Wolfgang J. Paul, and Leslie G. Valiant. On time versus space and
159 related problems. In *16th Annual Symposium on Foundations of Computer Science, Berkeley,
160 California, USA, October 13-15, 1975*, pages 57–64. IEEE Computer Society, 1975. doi:
161 10.1109/SFCS.1975.23.
- 162 4 Donald E. Knuth. Computer Programming as an Art. *Commun. ACM*, 17(12):667–673, 1974.
163 doi:10.1145/361604.361612.

164 **A** Styles of lists, enumerations, and descriptions

165 List of different predefined enumeration styles:

166 ■ `\begin{itemize}...\end{itemize}`

167 ■ ...

168 ■ ...

169 1. `\begin{enumerate}...\end{enumerate}`

170 2. ...

171 3. ...

172 (a) `\begin{alphaenumerate}...\end{alphaenumerate}`

173 (b) ...

174 (c) ...

175 (i) `\begin{romanenumerate}...\end{romanenumerate}`

176 (ii) ...

177 (iii) ...

178 (1) `\begin{bracketenumerate}...\end{bracketenumerate}`

179 (2) ...

180 (3) ...

181 **Description 1** `\begin{description} \item[Description 1] ... \end{description}`

182 **Description 2** Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui.

183 Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus

184 massa sit amet neque.

185 **Description 3** ...

186 **B** Theorem-like environments

187 List of different predefined enumeration styles:

188 ► **Theorem 7.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo*

189 *dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus*

190 *massa sit amet neque.*

191 ► **Lemma 8.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui.*

192 *Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa*

193 *sit amet neque.*

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194 ► **Corollary 9.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui.*
195 *Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa*
196 *sit amet neque.*

197 ► **Proposition 10.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo*
198 *dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus*
199 *massa sit amet neque.*

200 ► **Exercise 11.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo*
201 *dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus*
202 *massa sit amet neque.*

203 ► **Definition 12.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo*
204 *dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus*
205 *massa sit amet neque.*

206 ► **Example 13.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo*
207 *dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus*
208 *massa sit amet neque.*

209 ► **Note 14.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui.*
210 *Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa*
211 *sit amet neque.*

212 ► **Note.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui. Nam*
213 *vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa sit*
214 *amet neque.*

215 ► **Remark 15.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui.*
216 *Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa*
217 *sit amet neque.*

218 ► **Remark.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui.*
219 *Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa*
220 *sit amet neque.*

221 ▷ **Claim 16.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui.*
222 *Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa*
223 *sit amet neque.*

224 ▷ **Claim.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui.*
225 *Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa*
226 *sit amet neque.*

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

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