

Regulacija odziva bioloških oscilatorjev

Uredila doc. dr. Miha Moškon in prof. dr. Miha Mraz

Januar, 2020

Predgovor

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Biološki oscilatorji imajo pomembno vlogo pri regulaciji bioloških procesov, med katere sodi tudi prilagajanje organizma na nočno-dnevni cikel preko *cirkadiane ure*. Po drugi strani oscilatorji predstavljajo pomemben gradnik pri izvedbi procesnih struktur, saj omogočajo sinhronizacijo ostalih gradnikov in s tem izvedbo sinhronih sekvenčnih vezij. Biološki oscilatorji so torej pomembni tako z analitičnega, kot tudi s sinteznega vidika. V seminarski nalogi se boste osredotočili na analizo modelov biološkega oscilatorja, t. i. represilatorja, in zmožnostmi njegovega usklajevanja bodisi z dodatnimi regulatornimi elementi bodisi z zunanjimi dražljaji.

Ljubljana,
januar, 2020

doc. dr. Miha Moškon
prof. dr. Miha Mraz

Zahvala

TODO

doc. dr. Miha Moškon in prof. dr. Miha Mraz, Ljubljana, januar 2020

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Poglavje 1

Contribution Title

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Name of Second Author
Name, Address of Institute e-mail: `name@email.address`

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$$a \times b = c, \quad (1.1)$$

however, for multiline equations we recommend to use the `eqnarray` environment¹.

$$\begin{aligned} a \times b &= c \\ \mathbf{a} \cdot \mathbf{b} &= \mathbf{c} \end{aligned} \quad (1.2)$$

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 - Livelihood and survival mobility are oftentimes outcomes of uneven socioeconomic development.

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Tabela 1.1 Please write your table caption here

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Dokaz. Proof text goes here. \square

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Appendix

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$$a \times b = c \tag{1.3}$$

Poglavje 2

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Name of First Author
Name, Address of Institute, e-mail: name@email.address

Name of Second Author
Name, Address of Institute e-mail: name@email.address

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Poglavje 3

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Definition 3.2. Definition text goes here.

Dokaz. Proof text goes here. □

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Appendix

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$$a \times b = c \tag{3.3}$$

Poglavje 4

Contribution Title

Name of First Author and Name of Second Author

Povzetek Each chapter should be preceded by an abstract (10–15 lines long) that summarizes the content. The abstract will appear *online* at www.SpringerLink.com and be available with unrestricted access. This allows unregistered users to read the abstract as a teaser for the complete chapter. As a general rule the abstracts will not appear in the printed version of your book unless it is the style of your particular book or that of the series to which your book belongs.

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Name of First Author
Name, Address of Institute, e-mail: `name@email.address`

Name of Second Author
Name, Address of Institute e-mail: `name@email.address`

4.2 Section Heading

Instead of simply listing headings of different levels we recommend to let every heading be followed by at least a short passage of text. Further on please use the \LaTeX automatism for all your cross-references and citations.

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Use the standard `equation` environment to typeset your equations, e.g.

$$a \times b = c, \quad (4.1)$$

however, for multiline equations we recommend to use the `eqnarray` environment¹.

$$\begin{aligned} a \times b &= c \\ \mathbf{a} \cdot \mathbf{b} &= \mathbf{c} \end{aligned} \quad (4.2)$$

4.2.1 Subsection Heading

Instead of simply listing headings of different levels we recommend to let every heading be followed by at least a short passage of text. Further on please use the \LaTeX automatism for all your cross-references and citations as has already been described in Sect. 4.2.

Please do not use quotation marks when quoting texts! Simply use the `quotation` environment – it will automatically render Springer’s preferred layout.

4.2.1.1 Subsubsection Heading

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¹ In physics texts please activate the class option `vecphys` to depict your vectors in *boldface-italic* type - as is customary for a wide range of physical subjects

² If you copy text passages, figures, or tables from other works, you must obtain *permission* from the copyright holder (usually the original publisher). Please enclose the signed permission with the manuscript. The sources must be acknowledged either in the captions, as footnotes or in a separate section of the book.

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For typesetting numbered lists we recommend to use the `enumerate` environment – it will automatically render Springer’s preferred layout.

1. Livelihood and survival mobility are oftentimes outcomes of uneven socioeconomic development.
 - a. Livelihood and survival mobility are oftentimes outcomes of uneven socioeconomic development.
 - b. Livelihood and survival mobility are oftentimes outcomes of uneven socioeconomic development.
2. Livelihood and survival mobility are oftentimes outcomes of uneven socioeconomic development.

Subparagraph Heading

In order to avoid simply listing headings of different levels we recommend to let every heading be followed by at least a short passage of text. Use the \LaTeX automatism for all your cross-references and citations as has already been described in Sect. 4.2, see also Fig. 4.2.

For unnumbered list we recommend to use the `itemize` environment – it will automatically render Springer’s preferred layout.

- Livelihood and survival mobility are oftentimes outcomes of uneven socioeconomic development, cf. Table 4.1.
 - Livelihood and survival mobility are oftentimes outcomes of uneven socioeconomic development.

Slika 4.1 If the width of the figure is less than 7.8 cm use the `sidecaption` command to flush the caption on the left side of the page. If the figure is positioned at the top of the page, align the sidecaption with the top of the figure – to achieve this you simply need to use the optional argument `[t]` with the `sidecaption` command

Slika 4.2 If the width of the figure is less than 7.8 cm use the `sidecaption` command to flush the caption on the left side of the page. If the figure is positioned at the top of the page, align the sidecaption with the top of the figure – to achieve this you simply need to use the optional argument `[t]` with the `sidecaption` command

- Livelihood and survival mobility are oftentimes coutcomes of uneven socioe-conomic development.
- Livelihood and survival mobility are oftentimes coutcomes of uneven socioeco-nomic development.

Run-in Heading Boldface Version Use the \LaTeX automatism for all your cross-references and citations as has already been described in Sect. 4.2.

Run-in Heading Italic Version Use the \LaTeX automatism for all your cross-refer-ences and citations as has already been described in Sect. 4.2.

Tabela 4.1 Please write your table caption here

Classes	Subclass	Length	Action Mechanism
Translation	mRNA ^a	22 (19–25)	Translation repression, mRNA cleavage
Translation	mRNA cleavage	21	mRNA cleavage
Translation	mRNA	21–22	mRNA cleavage
Translation	mRNA	24–26	Histone and DNA Modification

^a Table foot note (with superscript)

4.3 Section Heading

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Please note that the first line of text that follows a heading is not indented, whe-reas the first lines of all subsequent paragraphs are.

If you want to list definitions or the like we recommend to use the Springer-enhanced `description` environment – it will automatically render Springer’s preferred layout.

- Type 1 That addresses central themes pertaining to migration, health, and disease. In Sect. 4.1, Wilson discusses the role of human migration in infectious disease distributions and patterns.
- Type 2 That addresses central themes pertaining to migration, health, and disease. In Sect. 4.2.1, Wilson discusses the role of human migration in infectious disease distributions and patterns.

4.3.1 Subsection Heading

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If you want to emphasize complete paragraphs of texts we recommend to use the newly defined Springer class option and environment `svgraybox`. This will produce a 15 percent screened box ‘behind’ your text.

4.3.1.1 Subsubsection Heading

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Please note that the first line of text that follows a heading is not indented, whereas the first lines of all subsequent paragraphs are.

Theorem 4.1. *Theorem text goes here.*

Definition 4.1. Definition text goes here.

Dokaz. Proof text goes here. \square

Paragraph Heading

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Theorem 4.2. *Theorem text goes here.*

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$$a \times b = c \tag{4.3}$$

Literatura

1. M. Stražar, M. Mraz, N. Zimic, and M. Moškon., “An adaptive genetic algorithm for parameter estimation of biological oscillator models to achieve target quantitative system response,” *Natural Computing*, no. 13, pp. 119–127, 2014.