

Research activities at [partner institution]

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1 Introduction

This chapter of ARB aims to deliver a comprehensive insight into ATHENA partners' research activities, covering both the institution's overall research landscape and the outstanding achievements in research and innovation. The contributors to this chapter should be the ATHENA Research Board members.

The goal of this chapter is beyond the showcase of research activities; it should serve to identify partners' strengths and facilitate cooperation between the ATHENA partners.

Recommended chapters are: *Introduction* (the role of research at the institution – the ATHENA alliance member), *The research landscape* (an overview of research activities at the institution in general), *Outstanding research* (flagships to be identified), *From research to innovation* (technology/society transfer endeavours), *Students involvement* (how graduate/postgraduate students are involved in the R&I process) and *The vision of ATHENA research-based cooperation* (strategic message/contribution to the idea of alliance).

The contributions should be much related to the records in the [Shared Resources Directory](#) (ShRD) (mostly Form02) reciprocally, they might be an incentive to declare missing/additional research topics in the ShRD.

The contributions should be up to 5 pages long.

2 The Research Landscape

Paper Organization and Formatting: All printed material, including text and figures, must be kept within a print area of 12,9 cm (5") wide by 19.2 (7.7") high. Do not write or print anything outside the print area. Paper size is: 16,5x23,5 cm (6.5x9.3"). Margins on top are 2,5 cm (1"), others (bottom, left, right) are 1.8 cm (0,7"). All text must be in a one-column format. The text must be fully justified.

The final submission has to be submitted in a single PDF file with all fonts that are used embedded, and also the source file (Microsoft Word).

3 Outstanding Research

Headings: First-order Headings should be Times 12-point boldface, initially capitalised, and flush left. Headings should have 18-point top and 12-point bottom paragraph spacing, except for the first heading with no top spacing.

Don't use periods (“.”) after the heading number; use them only in lower-order headings to separate them from higher-order headings. For *long* headings use *a hanging indent* aligning the text to the right of the heading number as shown above.

All paragraphs in the text should be indented except for the first paragraph in a section. Second-order Headings should be Times 10-point boldface, initially capitalised, flush left, with 16-point top spacing and 6-point bottom paragraph spacing. Use a hanging indent for long headings.

Third-order headings should be 10-point Times, boldface, initially capitalised, flush left, with 12-point top spacing and 4-point bottom paragraph spacing. Use a hanging indent for long headings.

4 From Research to Innovation

Main text: Type your main text in 10-point Times, single-spaced. All paragraphs should be indented 0.5 cm (0.2") except for the first paragraph in a section.

Be sure your text is fully justified—that is, flush left and flush right. Please do not place any additional blank lines between paragraphs.

5 Involvement of Students

Figures: All figures are to be included within the text and flushed left. Figure captions should be *below* the figures, in 9-point Times, normal face. Initially, capitalise only the first word of each figure caption.

Figures are to be numbered consecutively with Arabic numerals throughout the paper, for example: “Figure 1. Empirical methods”, and are referred to in the text as Fig. 1, Fig. 2, etc.

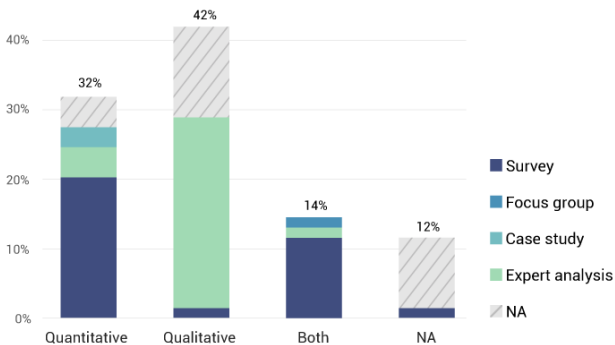


Figure 1. Times, 9 points, normal face

Tables: All tables are to be included within the text and flushed left. Table titles should be *above* the tables, in 9-point Times, normal face. Initially, capitalise only the first word of each table title. Tables are to be numbered consecutively with Arabic numerals throughout the paper, for example: “Table 1. Input data”, and are referred to in the text as Table 1, Table 2, etc. Column headings should be as brief as possible.

Table 1. Table example

	Column 1	Column 2	Column 3	Column 1	Column 2	Column 3
Row 1	1	2	3	1	2	3
Row 2	4	5	6	4	5	6
Row 3	3	4	7	3	4	7
Row 4	2	2	4	2	2	4
Row 5	1	3	2	4	5	7

6 The vision of ATHENA research-based cooperation

In-text Citation and Referencing: In-text citation must be used to denote all text used from another author(s) work or from authors previously published own work. When referenced in the text, number the references using Arabic numerals enclosed in square brackets.

List and number in order of appearance all bibliographical references, in 10-point Times, with a hanging indent, at the end of your paper. Use 6-point paragraph spacing after each reference.

In the References section below, you will find examples of common types of bibliographical items: book [1], journal paper [2], journal paper with more than three authors [3], conference proceedings paper [4], report or standard [5] and webpage [6]. For other types of bibliographical items, refer to the **IEEE style guidelines**. It should be ensured that every reference cited in the text is also listed in the References section (and vice versa).

7 References

[1]

C. Stolp and E. R. Tufte, “The Visual Display of Quantitative Information,” *Journal of Policy Analysis and Management*, vol. 4, no. 4, p. 620, 1985, doi: 10.2307/3323797.

[2]

B. Tversky and J. Morrison, “Animation: can it facilitate?,” *International Journal of Human-Computer Studies*, vol. 57, pp. 247–262, 2002.

[3]

G. Robertson, K. Cameron, M. Czerwinski, and D. Robbins, “Animated visualization of multiple intersecting hierarchies,” *Information Visualization*, vol. 1, no. 1, pp. 50–65, Mar. 2002, doi: 10.1057/palgrave/ivs/9500002.

[4]

G. Popescu and A. Wegmann, “Using the physics of notations theory to evaluate the visual notation of SEAM,” in *Proceedings - 16th IEEE Conference on Business Informatics, CBI 2014*, Jul. 2014, vol. 2, pp. 166–173. doi: 10.1109/CBI.2014.21.

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- [5] *ISO - ISO 9186-1:2014 - Graphical symbols — Test methods — Part 1: Method for testing comprehensibility*, 2nd ed. Geneva: International Organization for Standardization, 2014.
 - [6] F. Rivoal, “Media Queries,” W3C, 2012. <http://www.w3.org/TR/css3-mediaqueries/> (accessed May 30, 2013).