

# My Title

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**Abstract.** The abstract should briefly summarize the contents of the paper in 15–250 words.

**Keywords:** Coflow shedding · Fairness · Resource management.

## 1 Introduction

Modern data-parallel frameworks, which widely follow the Bulk-synchronous parallel(BSP) model(*e.g.*, Hadoop[1], MapReduce[3], Spark[4]), are treated as foundation of cloud computing. Please note that the first paragraph of a section or subsection is not indented. The first paragraph that follows a table, figure, equation etc. does not need an indent, either.

Subsequent paragraphs, however, are indented.

**Sample Heading (Third Level)** Only two levels of headings should be numbered. Lower level headings remain unnumbered; they are formatted as run-in headings.

*Sample Heading (Fourth Level)* The contribution should contain no more than four levels of headings. Table 1 gives a summary of all heading levels.

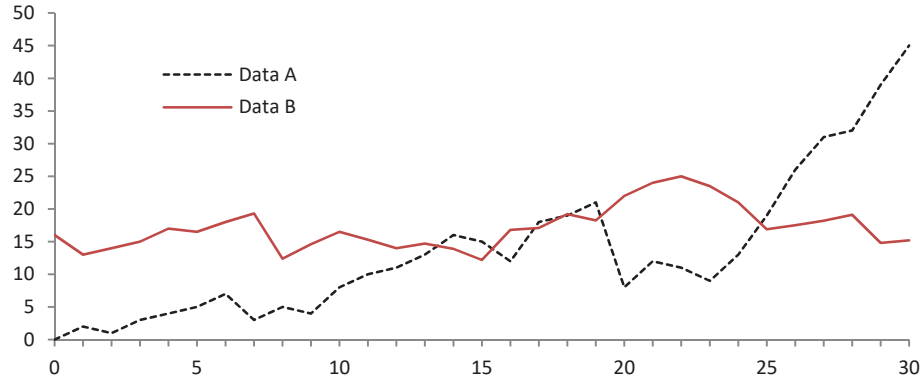
**Table 1.** Table captions should be placed above the tables.

Heading level	Example	Font size and style
Title (centered)	<b>Lecture Notes</b>	14 point, bold
1st-level heading	<b>1 Introduction</b>	12 point, bold
2nd-level heading	<b>2.1 Printing Area</b>	10 point, bold
3rd-level heading	<b>Run-in Heading in Bold.</b> Text follows	10 point, bold
4th-level heading	<i>Lowest Level Heading.</i> Text follows	10 point, italic

Displayed equations are centered and set on a separate line.

$$x + y = z \tag{1}$$

Please try to avoid rasterized images for line-art diagrams and schemas. Whenever possible, use vector graphics instead (see Fig. 1).



**Fig. 1.** A figure caption is always placed below the illustration. Please note that short captions are centered, while long ones are justified by the macro package automatically.

**Theorem 1.** *This is a sample theorem. The run-in heading is set in bold, while the following text appears in italics. Definitions, lemmas, propositions, and corollaries are styled the same way.*

*Proof.* Proofs, examples, and remarks have the initial word in italics, while the following text appears in normal font.

For citations of references, we prefer the use of square brackets and consecutive numbers. Citations using labels or the author/year convention are also acceptable. The following bibliography provides a sample reference list with entries for journal articles [2].

## References

1. Apache Hadoop, <http://hadoop.apache.org/>
2. Chowdhury, M., Liu, Z., Ghodsi, A., Stoica, I.: HUG: Multi-resource fairness for correlated and elastic demands. In: 13th USENIX Symposium on Networked Systems Design and Implementation (NSDI 16). pp. 407–424. USENIX Association, Santa Clara, CA (2016), <https://www.usenix.org/conference/nsdi16/technical-sessions/presentation/chowdhury>
3. Dean, J., Ghemawat, S.: Mapreduce: Simplified data processing on large clusters. *Commun. ACM* **51**(1), 107–113 (Jan 2008). <https://doi.org/10.1145/1327452.1327492>, <http://doi.acm.org/10.1145/1327452.1327492>
4. Zaharia, M., Chowdhury, M., Das, T., Dave, A., Ma, J., McCauley, M., Franklin, M.J., Shenker, S., Stoica, I.: Resilient distributed datasets: A fault-tolerant abstraction for in-memory cluster computing. In: Proceedings of the 9th USENIX Conference on Networked Systems Design and Implementation. pp. 2–2. NSDI’12, USENIX Association, Berkeley, CA, USA (2012), <http://dl.acm.org/citation.cfm?id=2228298.2228301>