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V4 Seminars for Young Scientists on Publishing Techniques in the Field of Engineering Science

General structure of extended abstracts for conferences

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Course overview



- · Differences compared to journal abstract
- · Mandatory sections
- Role and description of different sections
- Importance of preliminary results
- Additional tips for writing an outstanding extended abstract

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<u>Journal abstract vs. extended conference</u> <u>abstract</u>



What **should** be included?

- Journal abstract:
 - 300 words or less;
 - first section of a journal paper;
 - summarizes the main aspects covered in the paper.
- Extended conference abstract:
 - 2-10 pages (depending on the conference);
 - preview of the full paper;
 - includes a journal-size abstract (summary);
 - contains comparisons to related work, preliminary results and other details expected in a research paper but not in a journal abstract.

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Journal abstract vs. extended conference abstract



What should not be included?

- Journal abstract:
 - detailed background information;
 - references;
 - abbreviations;
 - images, figures, tables, or references to them.
- Extended conference abstract:
 - too much detailed data, measurements, references;
 - paragraphs that are not original but are not cited;
 - future work.

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Extended conference abstract



Has to answer the following questions:

- 1. What topic does the research cover?
 - 2. What is your approach on the topic?
 - 3. What is the novelty of your research?
 - 4. What methods and results will you discuss at the conference?

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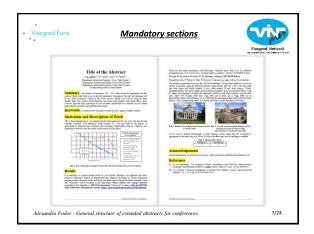
Mandatory sections

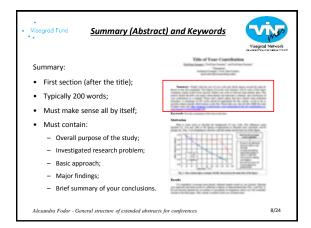


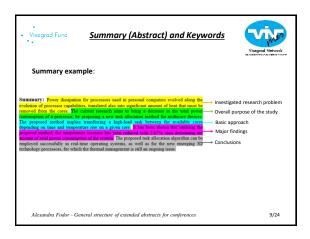
The extended abstract must contain the following sections:

- Summary (Abstract) and Keywords;
- Motivation/Description of Work/Methodology;
- Findings/Results;
- Conclusions (optional);
- Acknowledgements (optional);
- References.

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Summary (Abstract) and Keywords



Summary example - what is missing?

Summary: The paper examines the feasibility of using vapour phase or infrared reflow soldering technologies for multi-layer ceramic chip (MLCC) and disk ceramic capacitors by employing the pin-in-paste technology. During practical experiments recommendations are made for optimizing the thermal profiles used when soldering there types of components in order to minimize the drift in the capacitance and ESR values of these types of capacitors.

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Summary (Abstract) and Keywords



Summary example – what is missing?

Summary: The paper examines the feasibility of using vapour phase or infrared reflow soldering technologies for multi-layer ceramic chip (MLCC) and disk ceramic capacitors by employing the pin-in-paste technology. During practical experiments recommendations are made for optimizing the thermal profiles used when soldering there types of components in order to minimize the drift in the capacitance and ESR values of these types of capacitors.

- 1st sentence summarizes the problem and purpose;
- Approach "practical experiments" lacks information;
- Findings "optimizing the thermal profiles" lacks information;
- Conclusions none:
- Unexplained abbreviations never!

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Summary (Abstract) and Keywords



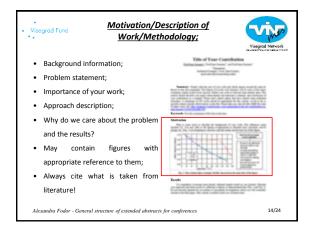
Keywords:

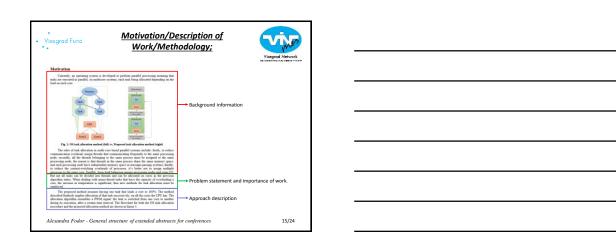
- · Immediately after summary
- 5 10 words;
- Will be used by search engines to locate your paper;
- Also used to assign papers to review committees;
- Must be words that appear often in your paper or are closely associated with the content of the paper.

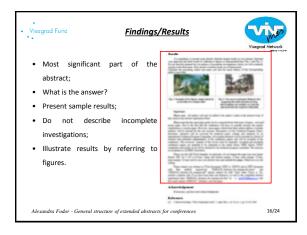
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Summary: Power dissipation for processors used in personal computers evolved along the evolution of processor capabilities, translated also into significant amount of heat that must be removed from the cores. The current research mass to bring a decrease in the total power capabilities, translated also into significant amount of heat that must be removed from the cores. The current research mass to bring a decrease in the total power capabilities, translated also into significant and power capabilities transferring a high-load task between the available cores depending on time and temperature rise on a given core. It has been shown that utilizing the proposed method, the temperature rise on a given core. It has been shown that utilizing the amount of total power consumption of the system. The proposed task indicate algorithm can be amount of total power consumption of the system. The proposed task indicate algorithm can be the proposed task indicate algorithm can be amount of total power consumption of the system. The proposed task indicate algorithm can be amount of total power consumption of the system. The proposed task indicate algorithm can be amount of total power consumption of the system. The proposed task indicate algorithm can be amount of total power consumption of the system. The proposed task indicate algorithm can be amount of total power consumption of the system. Good keywords: power dissipation, multicore, task allocation, temperature management. Bad keywords: the, method, system, technology, algorithm. Alexandra Fodor - General structure of extended abstracts for conferences

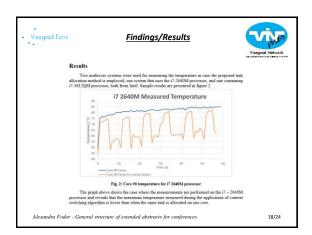






Importance of preliminary results • They are your ticket to the conference; • Preliminary results show that your work has scientific value; • Any seeker of your abstract wants to learn about the findings of your research: • Preliminary results support your ideas, assumptions and methods. · They offer a preview to your work state. 17/24

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Conclusions



- What are the implications of your answer?
- Are your results general, potentially generalizable, or specific to a particular case?
- · Principles drawn from your results;
- Any exceptions, problems, limitations of your research;
- Recommendations.

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<u>Acknowledgements</u>



- · Before the "References" section;
- Usually the paragraph is provided from the acknowledged party;
- Always give credit!



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References



- · Last section of the abstract;
- Do not use too many references, generally five is enough for a twopage abstract.
- · Order and discipline!
 - Alphabetically;
 - Text cite order;

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Additional tips



Abstract formatting

• Most extended abstracts have a template – do not deviate from it!

Example (SIITME2018 abstract template):

We strongly recommend you to use this MS-Word template!!! If not, please adhere to its style as closely as possible, using the following formats: paper formats: DIN A4 = 297 x 210 mm; page type area: upper and bottom margin: 25 mm, uper margin: 20 mm, linner margin: 25 mm; paragraph formats: line space: single, spacing before paragraphs: 6 pt, spacing before litles: 12 pt, no intent set alignment; upstifled, title alignment: centered or left, figure capture: centered: letter type: Times New Roman, letter size: 12 pt, letter size in titles: 22 or 18 pt; letter size in figure/tables capture and references: 11 pt. Underline the presenting author and provide the email address of the corresponding author. For photos and tables, use the templates from below.

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Common pitfalls



- · Do not use abbreviations or acronyms unless defined first;
- Avoid jargon, anything obscured must be explained;
- · Avoid questions in the abstract;
- Repetition of statements is not desired;
- The abstract should not include grand sweeps of history.

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Additional tips



- The extended abstract should be understood in less than one hour;
- · Align your abstract to the conference focus;
- Stick to the limits imposed by the conference;
- Use straightforward language and sentence structure;
- Get your abstract proofread by a colleague.
- Practice makes perfect!

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