How to write a basic technical paper for the IEEE?

Eszter Lukács
IEEE Client Services Manager
Europe
About the IEEE

- A not-for-profit society
- World’s largest technical membership association with over 415,000 members in 160 countries
- Five core areas of activity
  - Publishing
  - Conferences
  - Standards
  - Membership
  - E-learning

IEEE’s Mission

*IEEE's core purpose is to foster technological innovation and excellence for the benefit of humanity*
Czechoslovakia Section of IEEE

The members of the Institute of Electrical and Electronics Engineers (IEEE) are over 350,000 Electrical and Computer Science engineers in ~150 countries worldwide. IEEE is publishing more than 100 periodicals and an important number of books (over 25% of the scientific and technical literature in EE and CS originates from IEEE). It also organizes conferences and fosters the development of the EE and CS field. IEEE is geographically divided in 10 regions, the regions are further divided into sections. Czech Republic and Slovakia are parts of Region 8. Czechoslovakia Section of IEEE was established for Czech and Slovak members of IEEE in 1992. In the framework of IEEE-CS the following national societies organizations (Chapters) were established:

- Circuits and Systems, Communications Societies and Signal Processing Societies Joint Chapter (CAS/COM/SP)
- Computational Intelligence (CI) Society Chapter
- Computer (C) Society Chapter
- Control Systems (CS) Society Chapter
- Engineering in Medicine and Biology (EMB) Society Chapter
- Industry Applications Society/Industry Electronics Societies Joint Chapter (IAS/IES)
- Microwave Theory and Techniques, Antennas and Propagation and Electron Devices Societies Joint Chapter (MTT/AP/ED)
- Nuclear and Plasma Sciences (NPS) Society Chapter
- Power and Energy (PES) Society Chapter
- Systems, Man, and Cybernetics (SMC) Society Chapter
- Young Professionals
IEEE covers all areas of technology
More than just electrical engineering & computer science

MACHINE LEARNING  BIG DATA
OPTICS  RENEWABLE ENERGY
SEMICONDUCTORS  SMART GRID
IMAGING  NANOTECHNOLOGY
SIGNAL PROCESSING  AEROSPACE
COMMUNICATIONS  HUMAN-CENTERED INFORMATICS
BIOMEDICAL ENGINEERING  ELECTRONICS
NEXT GEN WIRELESS  CIRCUITS
CLOUD COMPUTING  ELECTROMAGNETICS
CYBER SECURITY
Full text content from all 38 IEEE Societies

IEEE Aerospace and Electronic Systems Society
IEEE Antennas and Propagation Society
IEEE Broadcast Technology Society
IEEE Circuits and Systems Society
IEEE Communications Society
IEEE Components, Packaging, and Manufacturing Technology Society
IEEE Computational Intelligence Society
IEEE Computer Society
IEEE Consumer Electronics Society
IEEE Control Systems Society
IEEE Dielectrics and Electrical Insulation Society
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IEEE Electron Devices Society
IEEE Electromagnetic Compatibility Society
IEEE Engineering in Medicine and Biology Society
IEEE Geoscience and Remote Sensing Society
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IEEE Information Theory Society
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- 20 IET conferences, 26 IET journals & magazines

- Inspec index records for all articles
- Backfile to 1988, select legacy data back to 1872
- Bell Labs Technical Journal (BLTJ) back to 1922
IEEE quality makes an impact
Thomson Reuters Journal Citation Reports® by Impact Factor

IEEE publishes:

18 of the top 20 journals in Electrical and Electronic Engineering
18 of the top 20 journals in Telecommunications
8 of the top 10 journals in Computer Science, Hardware & Architecture
7 of the top 10 journals in Cybernetics
3 of the top 5 journals in Automation & Control Systems
3 of the top 5 journals in Artificial Intelligence
2 of the top 5 journals in Robotics

The Thomson Reuters Journal Citation Reports presents quantifiable statistical data that provides a systematic, objective way to evaluate the world’s leading journals.

Based on the 2014 study released June 2015
More info: www.ieee.org/citations
IEEE quality makes an impact
Thomson Reuters Journal Citation Reports® by Impact Factor

IEEE journals are:

# 1 in Automation and Control
# 1 in Artificial Intelligence
# 1 in Computer Hardware
# 1 in Cybernetics
# 1 in Electrical Engineering
# 1 in Information Systems
# 1 in Measurement
# 1 in Theory and Methods
# 1 in Telecommunications
# 2 in Aerospace Engineering
# 2 in Robotics

Based on the 2014 study released June 2015

The Thomson Reuters Journal Citation Reports presents quantifiable statistical data that provides a systematic, objective way to evaluate the world’s leading journals.
IEEE research powers new patents

A study of the top 40 patenting organizations ranks IEEE #1 again

- Over three times more citations than any other publisher
- Patent referencing to IEEE increased 896% since 1997
- The importance of sci-tech literature in patents is rising
- IEEE research is increasingly valuable to innovators

1790 Analytics LLC performed an in-depth analysis of the science references from top patenting firms.

Source: 1790 Analytics LLC 2015
IEEE Leads US Patent Citations

Top 20 Publishers Referenced Most Frequently by Top 40 Patenting Organizations

IEEE is cited over 3x more often than any other publisher

Source: 1790 Analytics LLC 2015. Based on number of references to papers/standards/conferences from 1997-2014
Technology areas where patents cite IEEE most

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<td>Telecommunications</td>
<td>Wind Energy</td>
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Source: 1790 Analytics LLC 2015
IEEE Leads European Patent Citations

Top 20 Publishers Referenced Most Frequently by Top 25 Patenting Organizations

IEEE is the top cited publisher in patent references from the European Patent Office

Source: 1790 Analytics LLC 2012, Science References from 1997-2011
New IEEE Journals Coming in 2015

- IEEE Trans. on *Big Data*
- IEEE Trans. on *Transportation Electrification*
- IEEE Trans. on *Cognitive Communications and Networking*
- IEEE Trans. on *Computational Imaging*
- IEEE Trans. on *Molecular, Biological, and Multi-Scale Communications*
- IEEE Trans. *on Multi-Scale Computing Systems*
- IEEE Trans. on *Signal and Information Processing over Networks*
- IEEE *Systems, Man, and Cybernetics* Magazine

For a complete title listing, to go: [http://ieeexplore.ieee.org/xpl/opacjrn.jsp](http://ieeexplore.ieee.org/xpl/opacjrn.jsp)
New IEEE Journals Coming in 2016

- IEEE Robotics and Automation Letters
- IEEE Transactions on Sustainable Computing
- IEEE Journal of Multiscale and Multiphysics Computational Techniques
- IEEE Transactions on Intelligent Vehicles
Examples of New IEEE Conferences in 2014

- **Internet of Things (WF-IoT), 2014 IEEE World Forum on**
- **Humanitarian Technology Conference, (IHTC), 2014 IEEE Canada International**
- **Aerospace Electronics and Remote Sensing Technology (ICARES), 2014 IEEE International Conference on**
- **Antenna Measurements & Applications (CAMA), 2014 IEEE Conference on**
- **Consumer Electronics, Taiwan (ICCE-TW), 2014 IEEE International Conference on**
- **Energy Conversion (CENCON), 2014 IEEE Conference on**
- **Ethics in Science, Technology and Engineering, 2014 IEEE International Symposium on**
- **Transportation Electrification Asia-Pacific (ITEC Asia-Pacific), 2014 IEEE Conference and Expo**
- **Intelligent Energy and Power Systems (IEPS), 2014 IEEE International Conference on**
- **Quantum Optics Workshop (QOW), 2014**
- **Sensor Systems for a Changing Ocean (SSCO), 2014 IEEE**
- **Wireless and Mobile, 2014 IEEE Asia Pacific Conference on**
- **Industrial Engineering and Information Technology (IEIT), 2014 International Conference on**
- **Guidance, Navigation and Control Conference (CGNCC), 2014 IEEE Chinese**
Why Publish with IEEE?
Utilization of the seven Ishikawa tools (old tools) in the six sigma strategy
Mach, P.; Guaqueta, J.
Electronics Technology: Concurrent Engineering in Electronic Packaging, 2001. 24th International Spring Seminar on
Year: 2001
Pages: 51 - 55, DOI: 10.1109/ISSE.2001.931009
IEEE Conference Publications

Maximum efficiency of an induction machine operating in a wide range of speed and torque - part 2 (calculation, simulation and measurement results)
Vorel, P.; Hutak, P.; Prochazka, P.
Industrial Electronics (ISIE), 2010 IEEE International Symposium on
Year: 2010
Pages: 1359 - 1363, DOI: 10.1109/ISIE.2010.5637178
Cited by: Papers (1)
IEEE Conference Publications

Testing of dynamic quality of AD modules with standard interfaces and...
Utilization of the seven Ishikawa tools (old tools) in the six sigma strategy
Mach, P.; Guaqueta, J.
24th International Spring Seminar on Year: 2001
Pages: 51 - 55, DOI: 10.1109/ISSE.2001.931009
IEEE Conference Publications

Abstract (html) PDF (336 Kb)

Testing of dynamic quality of AD modules with standard interfaces and problems connected with it
Haasz, V.; Roztocil, J.
Pages: 461 - 464 vol.3, DOI: 10.1109/ICECS.1998.814038
Cited by: Papers (1)
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Abstract PDF (536 Kb)

Modeling of the hybrid electric drive with an electric power splitter and...
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Publish

IEEE journal or IEEE conference?

• A journal article is a fully developed presentation of your work and its final findings
  • Original research results presented
  • Clear conclusions are made and supported by the data

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  • Can present preliminary results or highlight recent work
  • Gain informal feedback to use in your research

• Conference articles are typically shorter than journal articles, with less detail and fewer references
IEEE's policy on duplicate publication states:

"authors should only submit original work that has neither appeared elsewhere for publication, nor which is under review for another refereed publication. If authors have used their own previously published work(s) as a basis for a new submission, they are required to cite the previous work(s) and very briefly indicate how the new submission offers substantively novel contributions beyond those of the previously published work(s)."

http://ewh.ieee.org/soc/nps/TNS.htm
Journals, Transactions, and Letters are the primary means for publishing technical papers concerning original work in IEEE fields of interest.

- The primary purpose of Journals, Transactions, and Letters is to disclose and provide a permanent archival record of original technical work that advances the state of the art or provides novel insights.

- Letters are for the publication of brief papers, usually three to four pages in length.
Magazines are characterized by regular and continuing issues with significant technical content in addition to general news and regular columns.

- IEEE Communications Magazine
- IEEE Microwave Magazine
- IEEE Signal Processing Magazine
- IEEE Instrumentation & Measurement Magazine
- ......
Structure
Paper Structure

Elements of a manuscript

- Title
- Abstract
- Keywords
- Introduction
- Methodology
- Results/Discussions/Findings
- Conclusion
- References
Paper Structure

Title

An effective title should...

- Answer the reader’s question: “Is this article relevant to me?”
- Grab the reader’s attention
- Describe the content of a paper using the fewest possible words
  - Is crisp, concise
  - Uses keywords
  - Avoids jargon
Paper Structure

**Good vs. Bad Title**

A Human Expert-based Approach to Electrical Peak Demand Management

**VS**

A better approach of managing environmental and energy sustainability via a study of different methods of electric load forecasting
Good vs. Better Title

An Investigation into the Effects of Residential Air-Conditioning Maintenance in Reducing the Demand for Electrical Energy

VS

“Role of Air-Conditioning Maintenance on Electric Power Demand”
Paper Structure

Abstract

A “stand alone” condensed version of the article
• No more than 250 words;
  written in the past tense
• Uses keywords and index terms

What you did

Why you did it

Why they’re useful & important & move the field forward

How the results were useful, important & move the field forward
The objective of this paper was to propose a human expert-based approach to electrical peak demand management. The proposed approach helped to allocate demand curtailments (MW) among distribution substations (DS) or feeders in an electric utility service area based on requirements of the central load dispatch center. Demand curtailment allocation was quantified taking into account demand response (DR) potential and load curtailment priority of each DS, which can be determined using DS loading level, capacity of each DS, customer types (residential/commercial) and load categories (deployable, interruptible or critical). Analytic Hierarchy Process (AHP) was used to model a complex decision-making process according to both expert inputs and objective parameters. Simulation case studies were conducted to demonstrate how the proposed approach can be implemented to perform DR using real-world data from an electric utility. Simulation results demonstrated that the proposed approach is capable of achieving realistic demand curtailment allocations among different DSs to meet the peak load reduction requirements at the utility level.

Vs

This paper presents and assesses a framework for an engineering capstone design program. We explain how student preparation, project selection, and instructor mentorship are the three key elements that must be addressed before the capstone experience is ready for the students. Next, we describe a way to administer and execute the capstone design experience including design workshops and lead engineers. We describe the importance in assessing the capstone design experience and report recent assessment results of our framework. We comment specifically on what students thought were the most important aspects of their experience in engineering capstone design and provide quantitative insight into what parts of the framework are most important.
Use in the Title and Abstract for enhanced Search Engine Optimization

Paper Structure

Keywords

Appropriate

Logical

Applicable

Specific

Searchable
Paper Structure

Introduction

• A description of the problem you researched
• It should move step by step through, should be written in present tense:

  Generally known information about the topic
  Prior studies’ historical context to your research
  Your hypothesis and an overview of the results
  How the article is organized

• The introduction should not be
  • Too broad or vague
  • More than 2 pages
Problem formulation and the processes used to solve the problem, prove or disprove the hypothesis

Use illustrations to clarify ideas, support conclusions:

- **Tables**: Present representative data or when exact values are important to show.
- **Graphs**: Show relationships between data points or trends in data.
- **Figures**: Quickly show ideas/conclusions that would require detailed explanations.
Demonstrate that you solved the problem or made significant advances

Results: Summarized Data
- Should be clear and concise
- Use figures or tables with narrative to illustrate findings

Discussion: Interprets the Results
- Why your research offers a new solution
- Acknowledge any limitations
Paper Structure

Conclusion

• Explain what the research has achieved
  • As it relates to the problem stated in the Introduction
  • Revisit the key points in each section
  • Include a summary of the main findings, important conclusions and implications for the field

• Provide benefits and shortcomings of:
  • The solution presented
  • Your research and methodology

• Suggest future areas for research
Support and validate the hypothesis your research proves, disproves or resolves.

There is no limit to the number of references.

But use only those that directly support our work.

Ensure proper author attribution.

Author name, article title, publication name, publisher, year published, volume, chapter and page number.

IEEE journals generally follow a citation numbering system.
Writers last task once all sections are written:

• How do they fit together?
• Does each section perform its appointed task?
• Is the order logical?
• Do the ideas flow together? Is it easy to read?
• Does the same material appear more than ones?
• Can it be clearer?
• Is there enough detail?
Review

Review Process

e.g. IEEE Transactions on Information Technology in Biomedicine
Audience

What IEEE editors and reviewers are looking for

- Content that is appropriate, in scope and level, for the journal
- Clearly written original material that addresses a new and important problem
- Valid methods and rationale
- Conclusions that make sense
- Illustrations, tables and graphs that support the text
- References that are current and relevant to the subject
Audience

Why IEEE editors and reviewers reject papers

- The content is **not a good fit for the publication**
- There are serious scientific flaws:
  - Inconclusive results or incorrect interpretation
  - Fraudulent research
- It is poorly written
- It does **not address a big enough problem** or advance the scientific field
- The work **was previously published**
- The **quality is not good enough for the journal**
- Reviewers have misunderstood the article
Ethics
Ethics

Types of misconduct

Conflict of Interest

• A financial or other relationship with the publication at odds with the unbiased presentation of data or analysis

Plagiarism

• Copying another person’s work word for word or paraphrasing without proper citation

Author Attribution

• Must be given if you use another author’s ideas in your article, even if you do not directly quote a source

Author involvement/contributions

• Include any and all who have made a substantial intellectual contribution to the work
• Do not include minor contributors
Ethics

Ethical publishing

Duplication, Redundancies & Multiple Submissions

- Author must submit original work that:
  - Has not appeared elsewhere for publication
  - Is not under review for another refereed publication
  - Cites previous work
  - Indicates how it differs from the previously published work
  - Authors MUST also inform the editor when submitting any previously published work

Refer to our Tips Sheet
Where to Publish?
Types

• **Traditional Journals** – Users/Libraries pay for access

• **Open Access Journals** – Author pays, free download

• **Hybrid Journals** – Most articles are traditional, some are open access (author preference)
Fully Open Access Topical Journals

IEEE Transactions on Emerging Topics in Computing

Photonics Journal
An IEEE Photonics Society Publication

IEEE Journal of Electron Devices Society

IEEE Journal of Translational Engineering in Health & Medicine

Editors in Chief

Fabrizio Lombardi, *IEEE Transactions on Emerging Topics in Computing*

Carmen S. Menoni, *IEEE Photonics Journal*


Clifford Dacso, *IEEE Journal of Translational Engineering in Health & Medicine*

Atam P. Dhawan, *IEEE Journal of Translational Engineering in Health and Medicine*
Coming in 2014 – Four New OA Topical Journals

- IEEE Exploratory Solid-State Computational Devices and Circuits
  - Multi-disciplinary research in solid-state circuits

- IEEE Life Sciences Letters
  - Articles that apply methods of quantitative analysis to biological problems at the molecular, cellular, organ, human and population levels

- IEEE Nanotechnology Express
  - Novel and important results on engineering at the nanoscale

- IEEE Power and Energy Technology System Journal
  - Practice-oriented articles focusing on the development, planning, design, construction, maintenance, installation and operation of equipment, structures, materials and power systems
New in 2013:

- A broad-scope **“Megajournal”** to cover **multi-disciplinary topics** that don’t naturally fit into one of IEEE’s existing primary transactions or journals

- Online-only archival publication: **no page limits**; supporting data and videos encouraged

- **Applications-oriented articles** such as interesting solutions to engineering or information system design challenges, practical experimental techniques, manufacturing methods, etc.

- **Rapid, yet thorough, binary peer-review** and publication process with submissions judged on technical substance and presentation quality

- Readers will **evaluate work through comments** and usage metrics, which are updated frequently and displayed with the abstract of each paper published

**More information:** [www.ieee.org/ieee-access](http://www.ieee.org/ieee-access)
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<tr>
<td>100+ traditional journals with an OA option.</td>
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<td>Online, peer-reviewed “megajournal”.</td>
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Aims & Scope

The theory, design and application of Control Systems. It shall encompass components, and the integration of these components, as are necessary for the construction of such systems. The word ‘systems’ as used herein shall be interpreted to include physical, biological, organizational and other entities and combinations thereof, which can be represented through a mathematical symbolism. The Field of Interest: shall include scientific, technical, industrial or other activities that contribute to this field, or utilize the techniques or products of this field, subject, as the art develops, to additions, subtractions, or other modifications directed or approved by the IEEE Technical Activities Board.

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<td>0 Invited Manuscripts</td>
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- "Hints on writing technical papers and making presentations” Li, V.O.K.

- “How to Get Your Manuscript Published in this Transactions in Six Months or Less” Williams, Dylan F.

http://ieeexplore.ieee.org
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- **How to write and publish a technical paper:**
  
  
  
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Eszter Lukács
IEEE Client Services Manager - Europe

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