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Eszter Lukács
Client Services Manager Europe
1884: Where we came from
About the IEEE

- World’s largest technical membership association with more than 430,000 members in over 160 countries
- Not for profit organization “Advancing Technology For Humanity”
- Four Core areas of activity
  - Membership organization
  - Conferences organizer
  - Standards developer
  - Publisher of journals, conferences, standards, ebooks and elearning
- IEEE Xplore by the numbers:
  - Nearly 4 million total documents
  - Over 3 million unique users
  - More than 8 million downloads per month
  - 15 year anniversary in 2015!

IEEE student volunteers in Mumbai

IEEE Day Contest Winner, Colombia
Prisijunk prie IEEE 2016 metais!
IEEE yra keli narystės tipai: IEEE studentas, IEEE partneris, IEEE narys...
Daugiau...
Why you should rely on IEEE information
Full text access to IEEE/IET Electronic Library (IEL)

- Nearly four million full text documents
- 179 IEEE journals & magazines
- 1400+ annual IEEE conferences + 43 VDE conferences
- More than 2800 IEEE standards (active, archived, redlines) + IEEE Standard Dictionary
- 20 IET conferences, 26 IET journals & magazines
- Bell Labs Technical Journal (BLTJ) back to 1922
- Backfile to 1988, select legacy data back to 1872
- Inspec index records for all articles
IEEE quality makes an impact
Thomson Reuters Journal Citation Reports® by Impact Factor

IEEE publishes:

17 of the top 20 journals in Electrical and Electronic Engineering
14 of the top 15 journals in Telecommunications
3 of the top 5 journals in Computer Science, Hardware & Architecture
3 of the top 5 journals in Computer Science, 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 Imaging Science & Photographic Technology

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 2015 study released June 2016
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 Information Systems
# 1 in Manufacturing Engineering
# 1 in Theory and Methods
# 2 in Telecommunications
# 3 in Aerospace Engineering

Based on the 2015 study released June 2016

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

<table>
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<tr>
<th>Battery</th>
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<td>Information storage</td>
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Source: 1790 Analytics LLC 2015
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Full text content from all 39 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
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IEEE Education Society
IEEE Electron Devices Society
IEEE Electromagnetic Compatibility Society
IEEE Engineering in Medicine and Biology Society
IEEE Geoscience and Remote Sensing Society
IEEE Industrial Electronics Society
IEEE Industry Applications Society
IEEE Information Theory Society
IEEE Instrumentation and Measurement Society
IEEE Intelligent Transportation Systems Society
IEEE Magnetics Society
IEEE Microwave Theory and Techniques Society
IEEE Nuclear and Plasma Sciences Society
IEEE Oceanic Engineering Society
IEEE Photonics Society
IEEE Power Electronics Society
IEEE Power & Energy Society
IEEE Product Safety Engineering Society
IEEE Professional Communications Society
IEEE Reliability Society
IEEE Robotics and Automation Society
IEEE Signal Processing Society
IEEE Society on Social Implications of Technology
IEEE Solid-State Circuits Society
IEEE Systems, Man, and Cybernetics Society
IEEE Technology and Engineering Management Society NEW in 2015
IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society
IEEE Vehicular Technology Society
IEEE covers all areas of technology
More than just electrical engineering & computer science

MACHINE LEARNING  BIG DATA
OPTICS  RENEWABLE ENERGY
SMART GRID
SEMICONDUCTORS
IMAGING
NANOTECHNOLOGY
SIGNAL PROCESSING
AEROSPACE
COMMUNICATIONS
HUMAN-CENTERED INFORMATICS
BIOMEDICAL ENGINEERING
ELECTRONICS
NEXT GEN WIRELESS
CIRCUITS
CLOUD COMPUTING
CYBER SECURITY
ELECTROMAGNETICS
Multidisciplinary Content on IEEE Xplore Digital Library
At least **eight IEEE publications** are dedicated in whole or in part to technology related to Life Sciences.

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- IEEE Reviews on Biomedical Engineering
- IEEE Trans. on Neural Systems and Rehabilitation Engineering
- IEEE Trans. on Information Technology in Biomedicine
- IEEE Trans. on Medical Imaging
- IEEE/ACM Trans. on Computational Biology and Bioinformatics
- IEEE Trans. on Biomedical Circuits and Systems
- IEEE Trans. on NanoBioscience
- IEEE Trans. on Autonomous Mental Development.
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Examples of IEEE publications:
- IEEE Trans. on Geoscience & Remote Sensing
- IEEE Geoscience & Remote Sensing Magazine
- IEEE Geoscience & Remote Sensing Letters
- IEEE International Symposium Geoscience and Remote Sensing (IGARSS)
- IEEE Petroleum and Chemical Industry Technical Conference (PCIC)
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Relevant IEEE publications include:

- IEEE/ASME Transactions on Mechatronics (#1 most cited journal in Engineering - Manufacturing)
- IEEE Transactions on Components, Packaging and Manufacturing Technology
- IEEE Transactions on Semiconductor Manufacturing
- IEEE Transactions on Automation Science and Engineering
- IEEE Robotics & Automation Magazine
- IEEE International Symposium on Assembly and Manufacturing
- International Conference on Digital Manufacturing and Automation
- e-Manufacturing & Design Collaboration Symposium Electronics Manufacturing Technology Symposium
- International Conference on System Science, Engineering Design and Manufacturing, Informatization
IEEE Xplore covers the leading edge of computer graphics technology and its applications in everything from business to the arts.

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Examples of IEEE Xplore publications:
- IEEE Computer Graphics
- International Conference on Computer Graphics, Imaging & Visualization
- International Conference on Image & Graphics
IEEE Xplore covers the design of video games, mathematical games, human-computer interactions in games, and games involving physical objects.

Topics include game production, computational intelligence, artificial intelligence, simulations, and more.

Examples of IEEE Xplore publications:
- IEEE Trans. On Computational Intelligence and AI in Games
- Symposium on Computational Intelligence in Games
- International Conference on Computer Games
- International Workshop on Digital Game and Intelligent Toy Enhanced Learning
- International Symposium on Haptic, Audio, Visual Environments and Games
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**Healthcare**: telemedicine, electronic medical records, patient-specific healthcare, cloud computing in the medical field, patient monitoring systems, informatics, and more

---

**Emerging Technologies for Patient-Specific Healthcare**

**I. INTRODUCTION**

PATIENT-SPECIFIC healthcare is a research field that has recently garnered much more attention due to the benefits of better services provided to patients and a reduction of healthcare costs. A series of emerging technologies [1] aim to emphasize the provision of personalized healthcare services to patients [2]–[5]. These include the following.

1. Pattern recognition methods for signal pattern classification toward the prediction and diagnosis of diseases.
4. Ontologies and context-based electronic health records (EHRs).
5. Methodologies for the integration of clinical, imaging, and intranuclear spike activity recorded from Parkinson’s disease patients.

A new Neural Sensing Healthcare System for 3D Vision Technology, NeuroGlasses, is presented in [7]. NeuroGlasses is a noninvasive, wearable physiological signal monitoring system to facilitate health analysis and diagnosis of 3-D video watchers. The NeuroGlasses system acquires health-related signals by physiological sensors and provides feedback of health-related features. The system employs signal-specific reconstruction and features extraction to compensate the distortion of signals caused by the variation of sensor placement. Through an on-campus pilot study, the experimental results show that NeuroGlasses system can effectively provide physiological information.

In [8], the authors explore how the rhythmogram can be used...
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**Transportation:** intelligent transportation systems, logistics, supply chain management, and more

- Related IEEE Journals & Conferences:
  - IEEE Trans. on Intelligent Transportation Systems
  - IEEE Intelligent Transportation Systems Magazine
  - IEEE Trans. on Automation Science and Engineering
  - IEEE International Conference on Automation and Logistics
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Read articles by leaders in the field:

**Prof. Clayton Christensen**  
*Harvard Business School*  
“Innovator’s Dilemma”  

**Prof. Tony Cai**  
*The Wharton School of the University of Pennsylvania*
Criminal Justice: crime scene investigation technologies, cybercrime, crime statistics, and more

Cybercrime regulation at a cross-road: State and transnational laws versus global laws

The proliferation of cybercrime necessitates all internet-connected states to be involved in cybercrime regulation. Although it has been stated that the internet per se and cyberspace in general are by its very nature ungovernable, many states have taken territorial control of the internet although the effectiveness of such control in cross-border crime commission may be questioned. The internet may very well become ungovernable if a nation-state takes a unilateral decision on which conduct constitutes permissible online conduct or endeavours to superimpose laws on other nation-states. It is therefore suggested that under the auspices of the United Nations and within an international law context the following issues should be addressed: conceptualizing the term “cybercrime” in establishing for example whether it includes a cyber-attack, determining which online conduct is permissible to ensure peace and security and initiating negotiations towards a Cybercrime Treaty.
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**Liberal Arts**: digital humanities, use of image processing in art conservation, music classification, and more

---

2012 6th IEEE International Conference on Digital Ecosystems and Technologies (DEST)

**TRACK E: DIGITAL HUMANITIES**

Track co-Chairs
- **Tobias Blanke**, *Kings College, UK*
- **Stuart Dunn**, *King’s College London, UK*

The digital humanities form a bridge between the traditional practices of scholarship and the opportunities afforded by advances in technology, enabling researchers to reconsider old problems in new ways, and providing the methods, tools and frameworks to support them in developing new modes of enquiry. On the one hand, the humanities are faced with ever greater volumes of complex data and digital resources, for example from the increasing mass digitisation of historical records.

On the other hand, research in the humanities is moving away from the model of individual scholars to one in which international and inter-disciplinary teams of researchers collaborate actively within a diverse ecosystem of digital resources, tools, and services, not forgetting of course the users themselves – the rapid evolution of Web technologies continues to privilege the human as a key agent, both as provider and consumer of content, and this in turn is investing humanities scholarship...
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**Entertainment:** computer graphics, animation, 3D, digital motion pictures, laser projectors, and more

---

**Bringing Physical Characters to Life**

Akhil J. Madhani  
Walt Disney Imagineering R&D

**Abstract**

At Disney, we are striving to present these characters in the most compelling way possible. In this talk, I hope to present the theme that was distilled from Disney in attractions.

As examples of characters, I discuss two newer developments in the theme of developing characters in conjunct with the Disney theme and has made appearances in the movie.

---

**Ray Tracing for the Movie ‘Cars’**

Per H. Christensen*  
Julian Fong  
David M. Luebke  
Dana Batali

Pixar Animation Studios

**ABSTRACT**

This paper describes how we extended Pixar’s RenderMan renderer with ray tracing abilities. In order to ray trace highly complex scenes we use multisolution geometry and texture caches, and use ray differentials to determine the appropriate resolution. With this method we are able to efficiently ray trace scenes with much more geometry and texture data than there is main memory. Movie-quality rendering of scenes of such complexity had only previously been possible with pure scanline rendering algorithms. Adding ray tracing to this solution makes it possible to efficiently ray trace highly complex scenes.

This paper first gives a more detailed motivation for the use of ray tracing in ‘Cars’, and lists the hard rendering requirements in the movie industry. It then gives an overview of how the REYES algorithm deals with complex scenes and goes on to explain the work on efficient ray tracing of very complex scenes. An explanation of our hybrid rendering approach, combining REYES with ray tracing, follows. Finally, we measure the efficiency of our method on a...
As with many new technologies, smart clothing and textile electronics currently suffer from the chicken-and-egg problem—that is, for the devices to be widely deployed, the price must come down, but for the price to come down, the devices must be mass-produced (readily deployed). The solution to the chicken-and-egg problem must incorporate all steps—from garment production through to wearable sensing apps. With appropriate abstraction, the design and development process should essentially remain a series of cutting and sewing steps, possibly including the integration of different materials. However, these requirements
In 2017, IEEE will introduce six new journals that will be available for subscription:

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- **IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology**
- **IEEE Transactions on Emerging Topics in Computational Intelligence**
- **IEEE Transactions on Green Communications and Networking**
- **IEEE Transactions on Radiation and Plasma Medical Sciences**
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New IEEE Journals Coming in 2016

In 2016, IEEE will introduce four new journals that will be available for subscription:

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- **IEEE Journal on Multiscale and Multiphysics Computational Techniques**
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New IEEE Journals from 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

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A sampling of some of the new conferences added in 2015

- **Big Data Software Engineering (BIGDSE)**, 2015 IEEE/ACM 1st International Workshop on
- **Computational Electromagnetics (ICCEM)**, 2015 IEEE International Conference on
- **DC Microgrids (ICDCM)**, 2015 IEEE First International Conference on
- **Electromagnetic Compatibility and Signal Integrity**, 2015 IEEE Symposium on
- **Identity, Security and Behavior Analysis (ISBA)**, 2015 IEEE International Conference on
- **Industrial Engineering and Operations Management (IEOM)**, 2015 International Conference on
- **Microwaves for Intelligent Mobility (ICMIM)**, 2015 IEEE MTT-S International Conference on
- **Multimedia Big Data (BigMM)**, 2015 IEEE International Conference on
- **Networking Systems and Security (NSysS)**, 2015 International Conference on
- **Sampling Theory and Applications (SampTA)**, 2015 International Conference on
- **Signal Processing, Informatics, Communication and Energy Systems (SPICES)**, 2015 IEEE International Conference on
- **Smart Cities Conference (ISC2)**, 2015 IEEE First International Conference on
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
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Electronics Letters
Year: 2013, Volume: 49, Issue: 1
Pages: 49 - 50, DOI: 10.1049/el.2012.3509
Cited by: Papers (2)

Enhancement of electron mobility in 2D MODFET structures
J. Pozela; V. Juciene; K. Pozela
Proceedings International Workshop on Physics and Computer Modeling of Devices Based on Low-Dimensional Structures
Year: 1995
Pages: 90 - 93, DOI: 10.1109/PCMDLS.1995.494966
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<td><strong>2019 IEEE Symposium on Security and Privacy (SP)</strong></td>
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<td>Full Paper Submission deadline: 16 Nov 2018</td>
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<td>Final submission deadline: 31 Mar 2019</td>
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<td>TBD</td>
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<td><strong>2018 IEEE World Congress on Computational Intelligence (WCCI)</strong></td>
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<td>Windsor Barra Convention Centre</td>
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Structure
Paper Structure

Elements of a manuscript

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

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

Why you did

What you did

How the results were useful, important & move the field forward

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

The abstract must be a **concise yet comprehensive reflection of what is in your article**. In particular, the abstract must be as follows.

1) Self-contained, without abbreviations, footnotes, or references; it should be a **microcosm of the full article**

2) Between **150-250 words**. Be sure that you adhere to these limits; otherwise, you will need to edit your abstract accordingly.

3) Written as **one paragraph**, and should **not contain** displayed mathematical equations or tabular material.

4) Should include **three or four different keywords or phrases**, as this will help readers to find it. It is important to avoid over-repetition of such phrases as this can result in a page being rejected by search engines.

5) Ensure that your abstract **reads well and is grammatically correct**.
Paper Structure

Good vs. Bad Abstract

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.

First person, present tense
No actual results, only describes the organization of the paper
Use in the Title and Abstract for enhanced Search Engine Optimization

- Logical
- Appropriate
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- Searchable
<table>
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<td>High Efficiency Video Coding (HEVC), parallel programming, video coding</td>
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**INSPEC: Controlled Indexing**
parallel processing, video coding

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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
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Fig. 1.

Fig. 2.
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Equations in TeX Source in HTML version

\begin{align}
&\text{and NOISE_{\text{reduction}} are computed in terms of percentages (see Table 1).} \\
&\text{HS_{recover}} = \left(1 - \frac{E \{x_{\text{HS}}^2 (n)\} - E \{y^2 (n)\}}{E \{x_{\text{HS}}^2 (n)\}}\right) \times 100\% \\
&\text{NOISE_{\text{reduction}} = }\left(\frac{E \{x_{\text{hs}_{\text{noi}}}^2 (n)\} - E \{y^2 (n)\}}{E \{x_{\text{hs}_{\text{noi}}}^2 (n)\}}\right) \times 100\%
\end{align}
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
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• How do they fit together?
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• Is the order logical?
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• Does the same material appear more than ones?
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• Is there enough detail?
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Review Process

e.g. IEEE Transactions on Information Technology in Biomedicine
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