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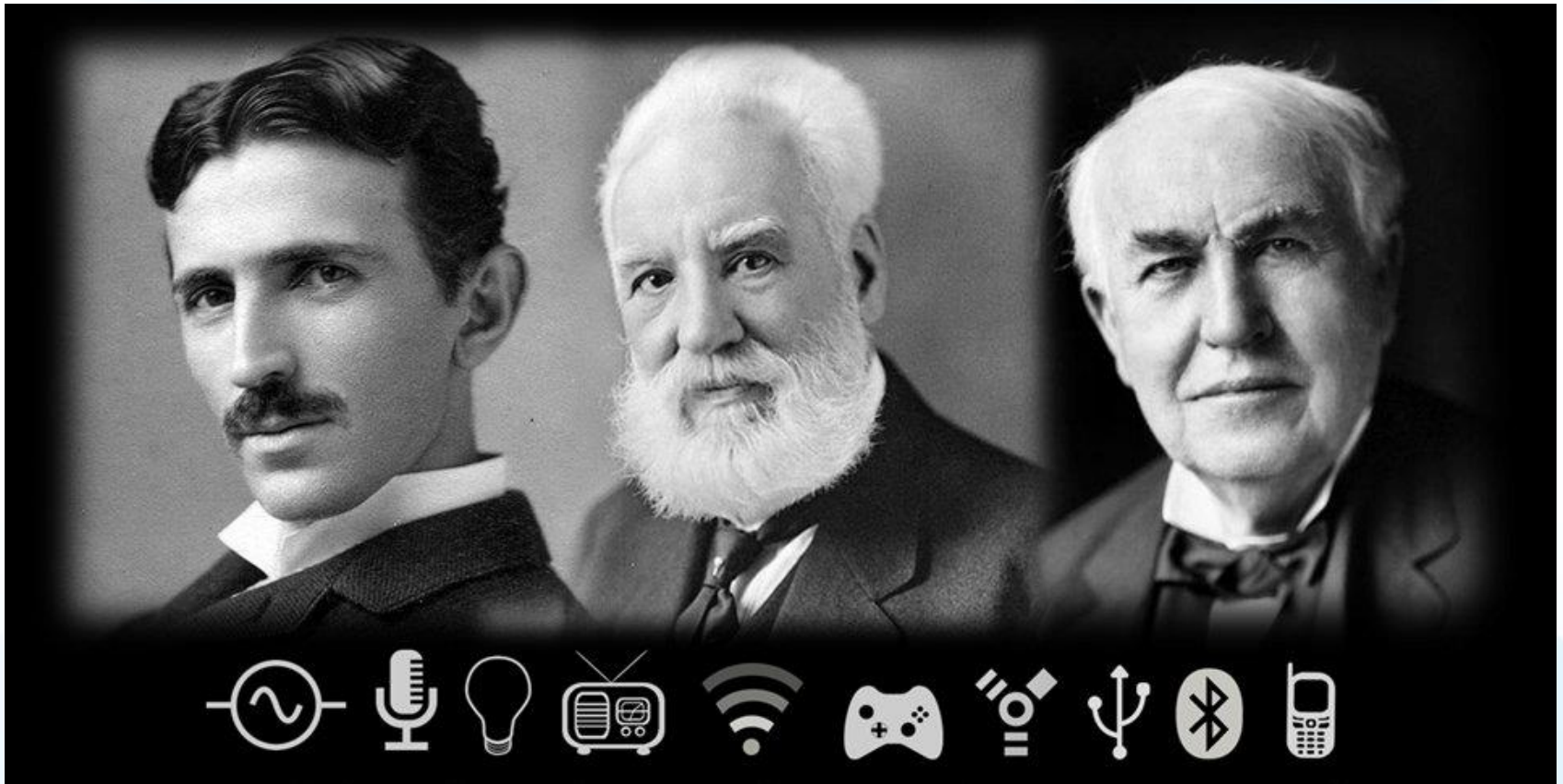
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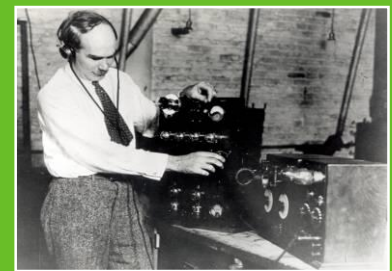
1912: The Institute of Radio Engineers is founded



1901
Guglielmo Marconi and George Kemp with equipment used in transatlantic wireless telegraphy



1912
Radio telegraph operators' communications with the sinking Titanic demonstrated the power of radio



1922
Triode vacuum tube inventor **Lee de Forest** with a radio

The New York Times.

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 Unsettled. Thunder. Wednesday.
 Rain, squalls, showers, squalls
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KEP 1046, TUBBOAT, APRIL 14, 1962 - TWENTY-FOUR HOURS

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Col. Aster and Bride,
Isidor Straus and Wife,
and Maj. Butt Aboard.

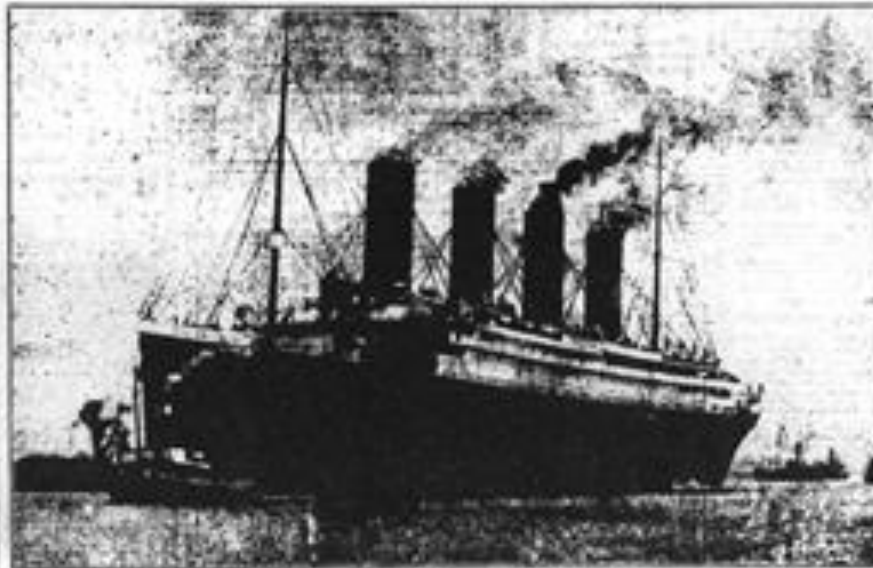
**Worries and Children Put One
in Limbo and Are Reported
to be Safe on Carpet.**

Flashed Silver Cuffs at White Star
gives her Name of His Father
and Laura Weeping.

Manager of the New Insulated
Tanks was responsible for
about the first case.

**A great new feeling that you're
getting into the new
newest of ideas.**

The attorney later told *Florida* he stopped searching for the body, but was unable to get military and law police in the future of the airplane's probable recovery area since talk at the time supported and went with his, and later on, the theory that the plane crashed in deep water, 100 miles east-northeast of Ft. St. John, Fla. He thought the flight instructor at the nearby Central Community College, involved in the accident, was a U.S. MARINE. The story was in the *Fort Lauderdale Sun*.



The Lost Titanic, Beld Towed Out of Belfast Harbor.

PARTIAL LIST OF THE SAVED.

Includes three names: Mrs. Wilson, Mrs. H. B. Smith, and an illegible name, suggesting Mrs. Jones's.

Source: U.S. Census Bureau, *Current Population Reports*, 1990.

Catchment Basins. Split-plot-fishing is a method of sampling among the first

**Biggest Litter Plunges
to the Bottom
at 2:20 A.M.**

RESCUERS THERE TOO LATE

Enough to Pick Up the Free-Trade Writings in the U.S.

WOMEN AND CHILDREN FIRST

Together Remotely Meeting In New York with the Servers

SEE SEARCH FOR OTHERS

The following boards by an
 chance of putting up other
 books or rolls.

[illegible]

Very little is known about the
effect of these other two
factors.

U.S. FISH SERVICE'S RESEARCH WORK
 JEROME, April 15.—A scientific message passed on the Atlantic seaboard from the University of Maryland to the University of New York with the following: "The fishery for the striped bass, *Morone saxatilis*, in the Chesapeake Bay and the Delaware River is the most important fishery in the United States. The fishery is the most important in the world." The message was sent by the U.S. Fish Service, which is the only agency in the world that has the authority to regulate the fishery.

Booked in The Star Line from
1988-1990, M. J. April 1988,
1989-1990, 1990-1991, 1991-1992

Marconi Biographical Details

- Disaster led to the "International Radio-Telegraphic Convention," London, July 1912.
- Established regulations and procedures for use of **wireless services in maritime disasters, including "SOS."**
- Followed by "Safety at Sea" Conference, London, November 1913. Sweeping regulations put into place.
- Tragedy was the **"jump start" of the wireless, radio, and electronics** industry that we know today.
- Titanic survivors present Marconi gold medal in gratitude for Marconi's wireless installation on board the Titanic credited for saving their lives.
- Britain's postmaster-general summed up, **"Those who have been saved, have been saved through one man, Mr. Marconi...and his marvelous invention."**
- Marconi eventually filed 33 U.S. Patents (1897–1934)

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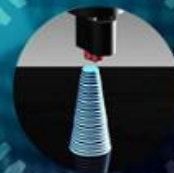
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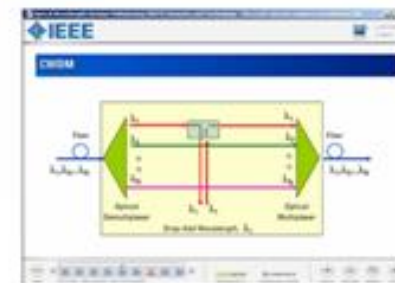
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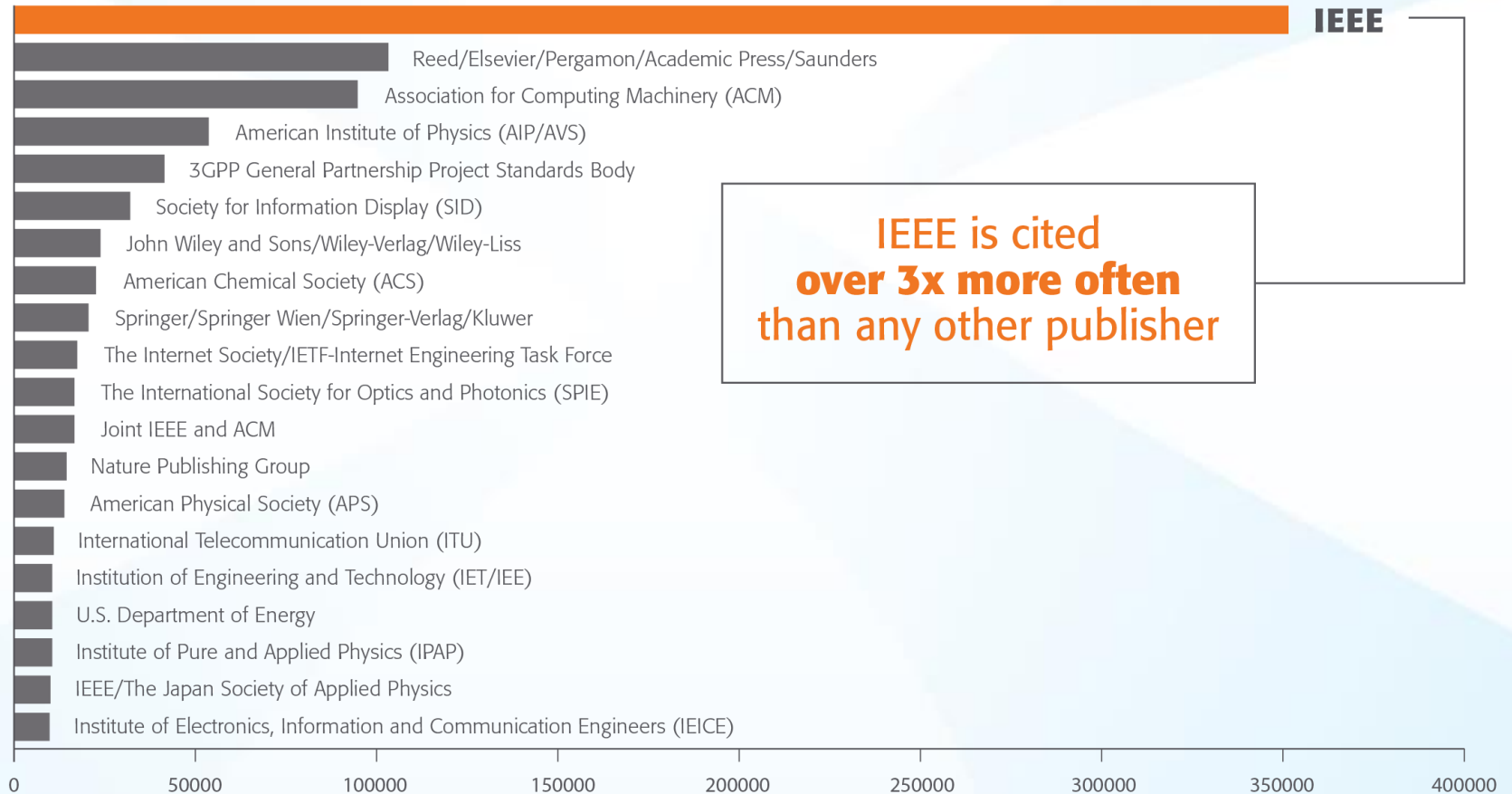
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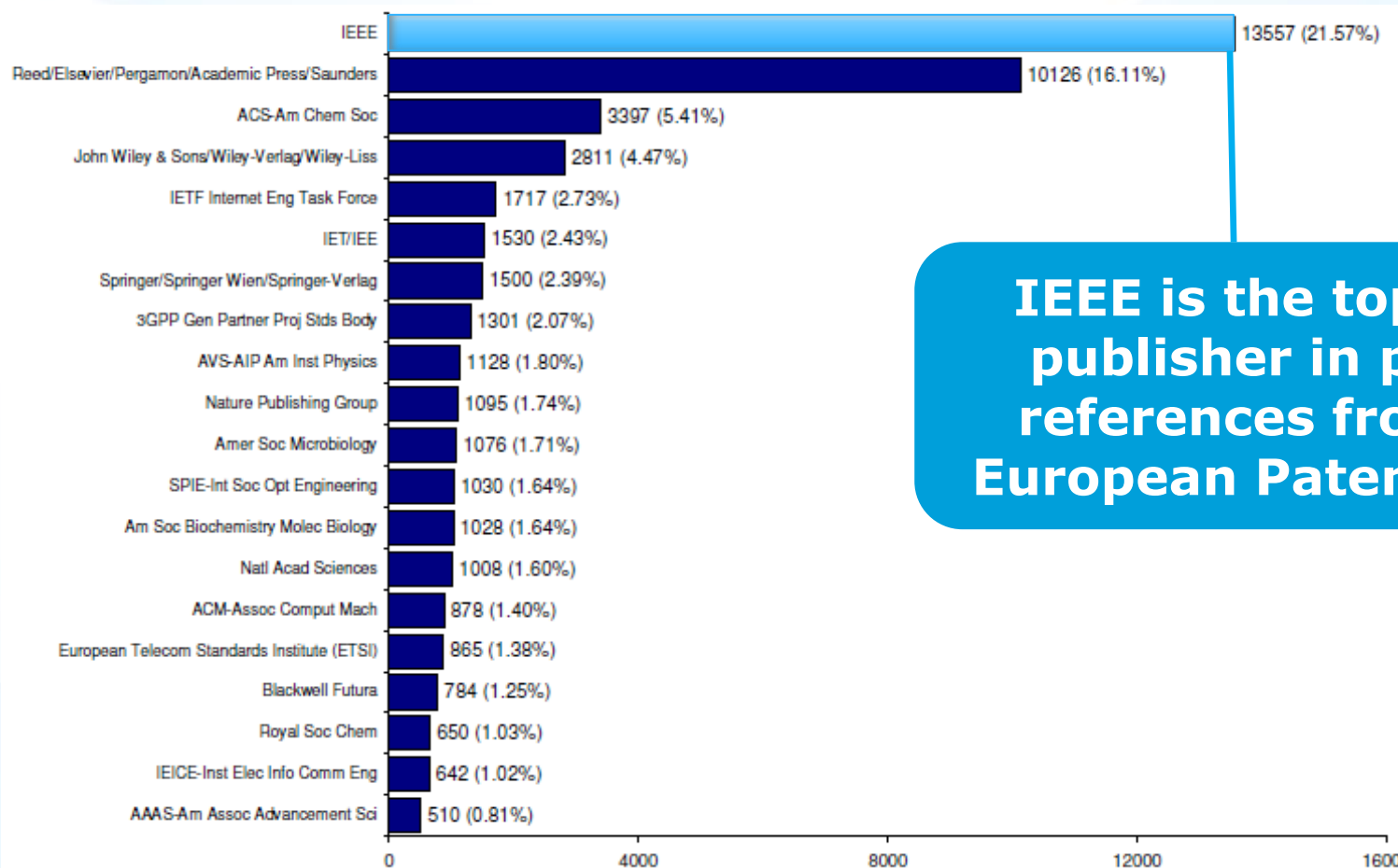
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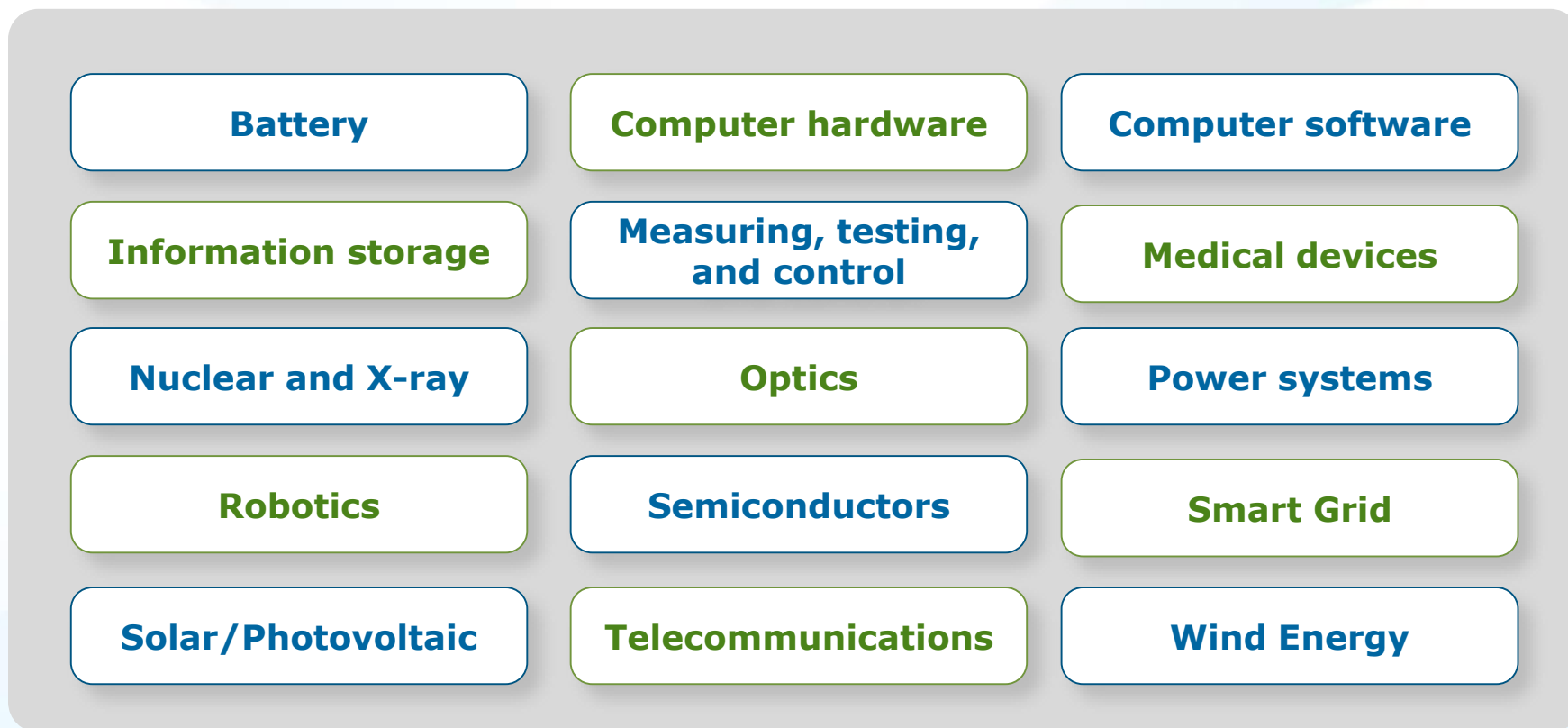
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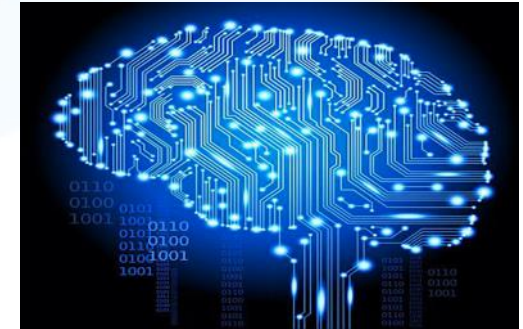
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- **Intelligent Systems Engineering** (ICISE), 2016 International Conference on
- **Intelligent Transportation Engineering** (ICITE), 2016 IEEE International Conference on
- **Mechatronics, Adaptive and Intelligent Systems (MAIS)**, 2016 IEEE Conference on
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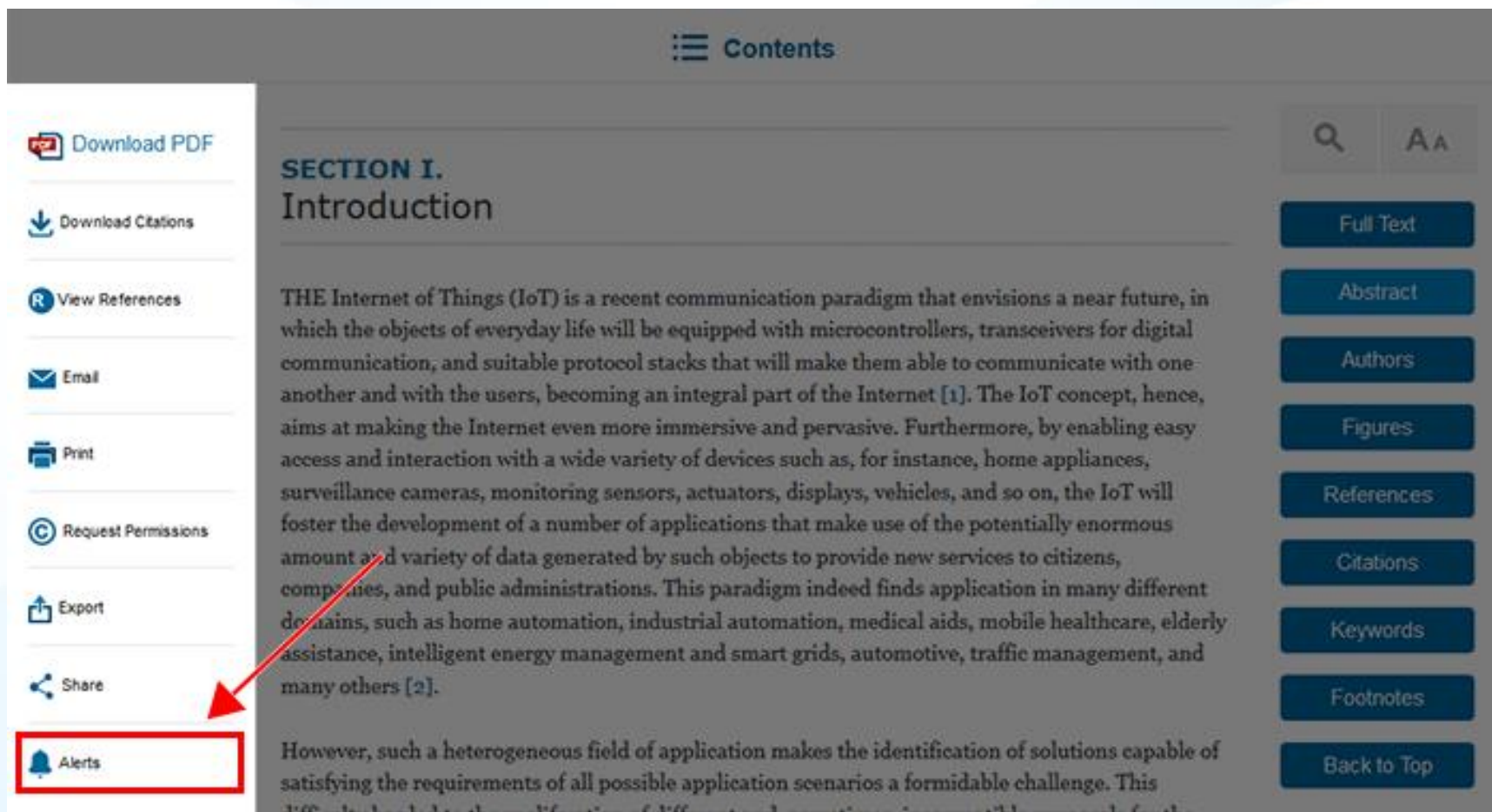
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SECTION I.
Introduction

THE Internet of Things (IoT) is a recent communication paradigm that envisions a near future, in which the objects of everyday life will be equipped with microcontrollers, transceivers for digital communication, and suitable protocol stacks that will make them able to communicate with one another and with the users, becoming an integral part of the Internet [1]. The IoT concept, hence, aims at making the Internet even more immersive and pervasive. Furthermore, by enabling easy access and interaction with a wide variety of devices such as, for instance, home appliances, surveillance cameras, monitoring sensors, actuators, displays, vehicles, and so on, the IoT will foster the development of a number of applications that make use of the potentially enormous amount and variety of data generated by such objects to provide new services to citizens, companies, and public administrations. This paradigm indeed finds application in many different domains, such as home automation, industrial automation, medical aids, mobile healthcare, elderly assistance, intelligent energy management and smart grids, automotive, traffic management, and many others [2].

However, such a heterogeneous field of application makes the identification of solutions capable of satisfying the requirements of all possible application scenarios a formidable challenge. This difficulty has led to the proliferation of different and, sometimes, incompatible proposals for the

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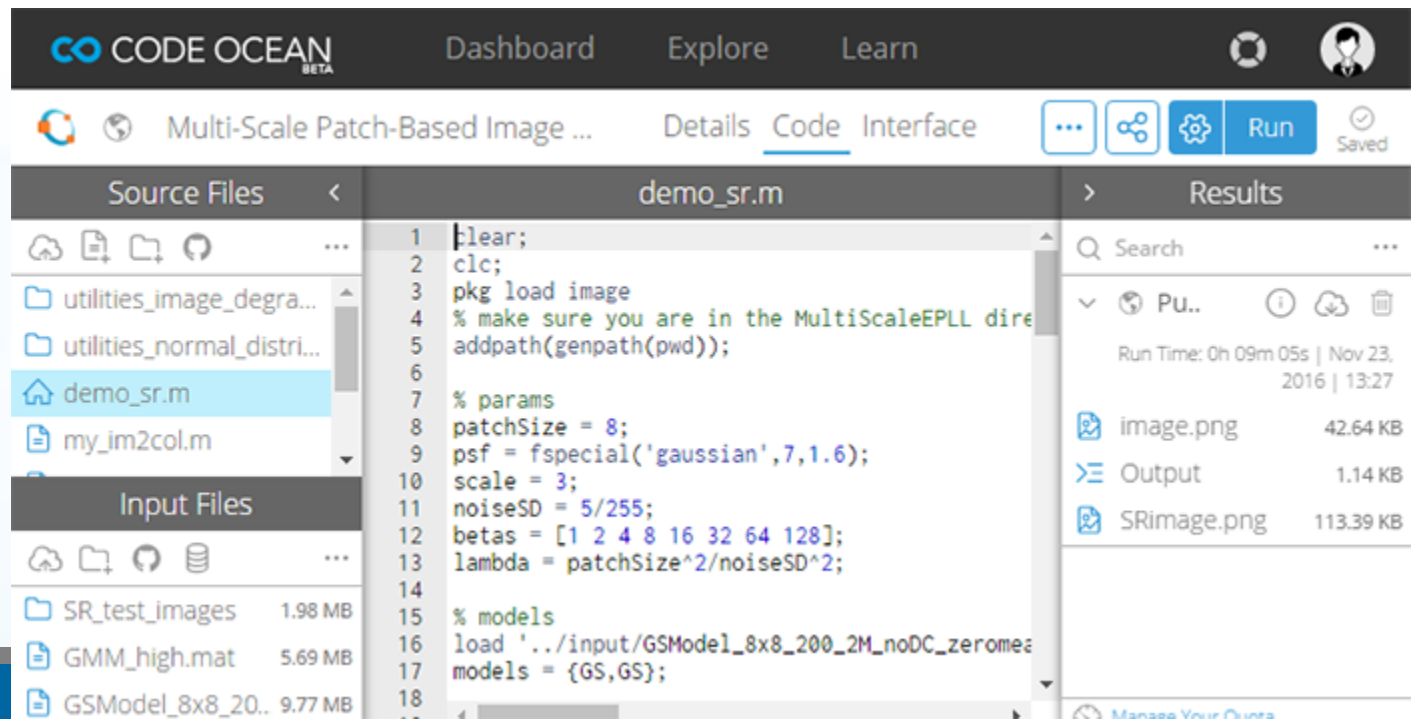
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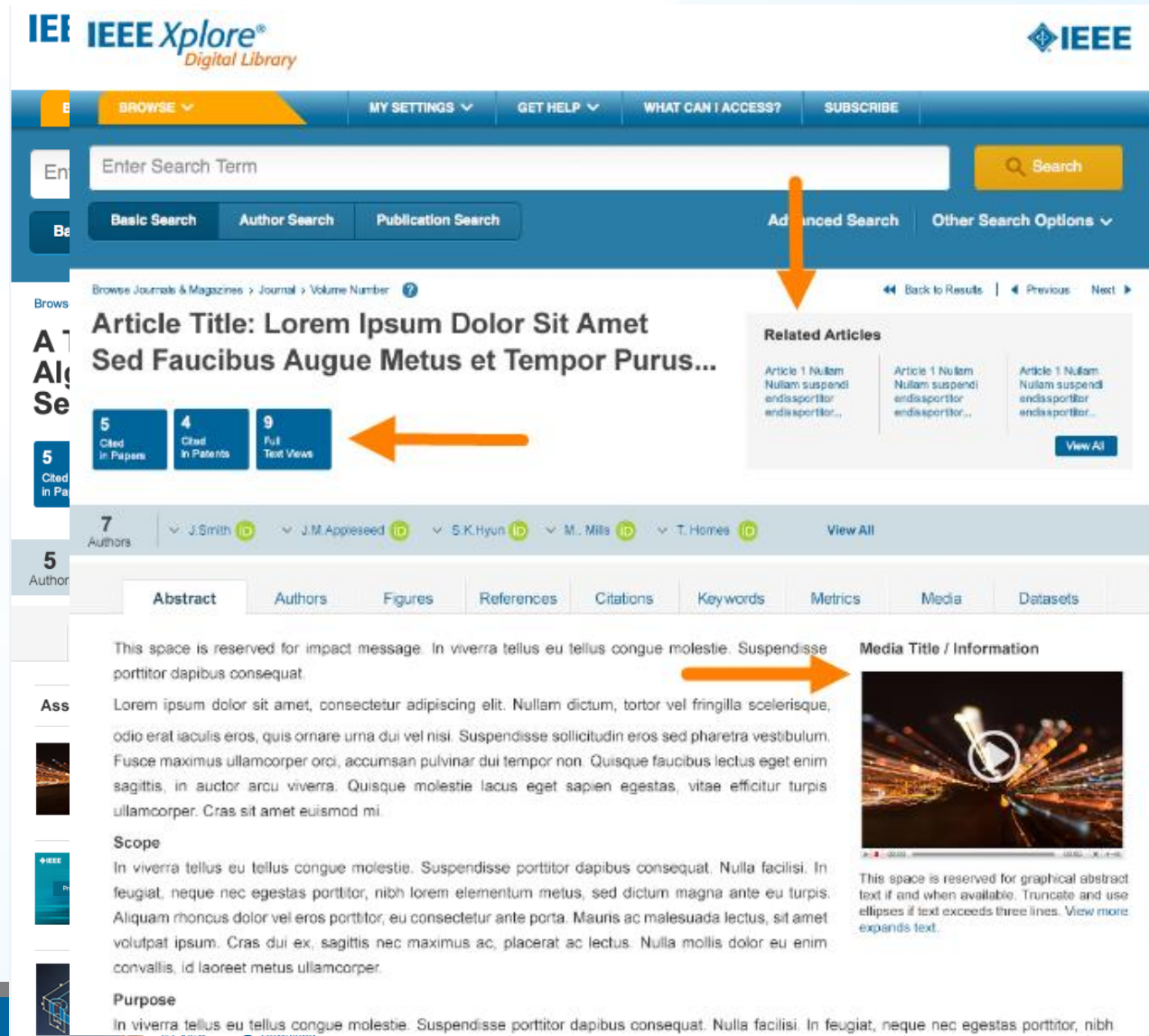


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```
1 clear;
2 clc;
3 pkg load image
4 % make sure you are in the MultiScaleEPLL dire
5 addpath(genpath(pwd));
6
7 % params
8 patchSize = 8;
9 psf = fspecial('gaussian',7,1.6);
10 scale = 3;
11 noiseSD = 5/255;
12 betas = [1 2 4 8 16 32 64 128];
13 lambda = patchSize^2/noiseSD^2;
14
15 % models
16 load './input/GSModel_8x8_200_2M_noDC_zeromea
17 models = {GS,GS};
18
```

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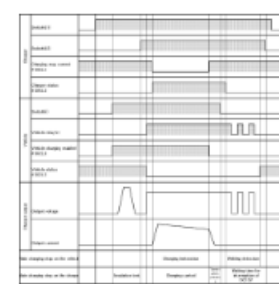
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Figure A.25



Requirement for voltage drop characteristic of charger output circuit (case 1: current drop driven; case 2: "Charger status" flag driven)

Figure A.26



CHARGER STATUS

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 - 3.2 Charger terms
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 - A.3 Installation conditions and main specifications
 - A.4 Requirements for basic design of the charger and the vehicle

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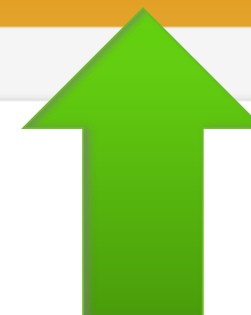
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Structure

Paper Structure

Elements of a manuscript

Title

Abstract

Keywords

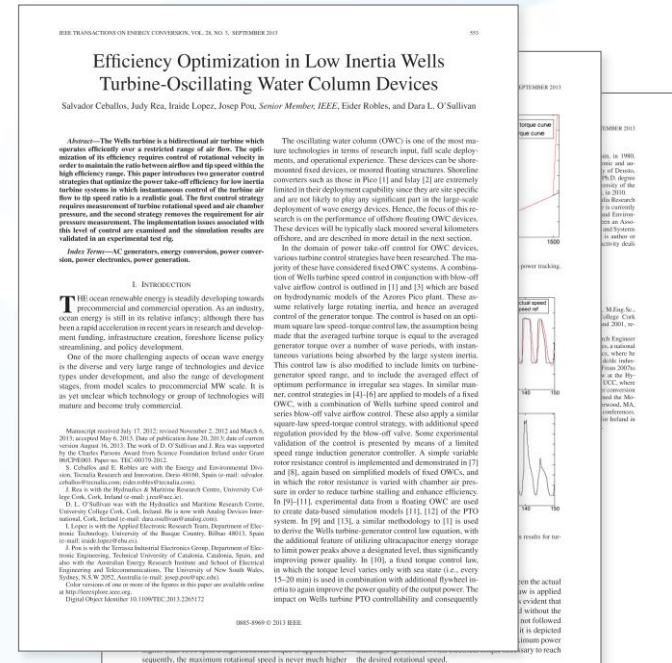
Introduction

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

Good
Title

VS.

Bad
Title

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

What you did

Why you did

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

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

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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

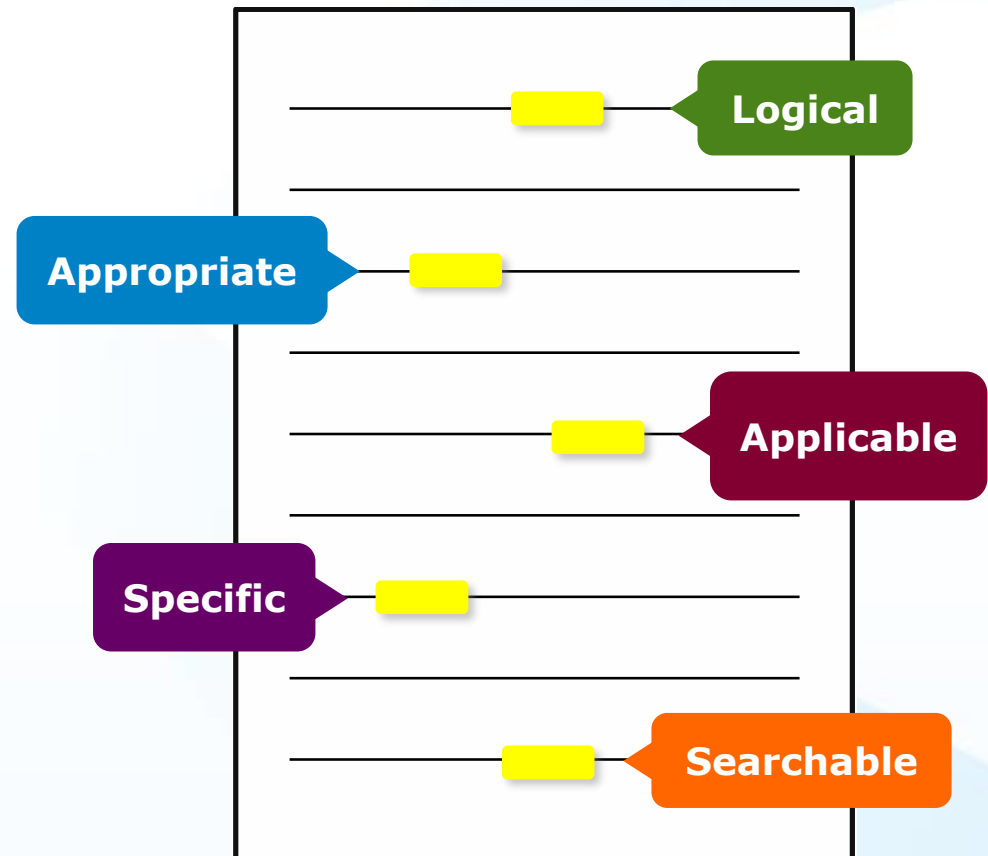
This paper presents and assesses a framework for an engineering capstone design program. **We explain** how student preparation, project selection, and instructor mentorship are the three key elements that must be addressed before the capstone experience is ready for the students. **Next, we describe** 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

Paper Structure Keywords

Use in the Title and
Abstract for enhanced
Search Engine Optimization



IEEE Keywords

Bit rate, Decoding, Encoding,
Parallel processing, Video
coding

Authors Keywords

High Efficiency Video Coding
(HEVC), parallel programming,
video coding

INSPEC: Controlled Indexing

parallel processing, video coding

INSPEC: Non-Controlled Indexing

12-core system, H.264-advanced video coding, HEVC parallelization approaches, OWF, WPP, frequency 3.33 GHz, high efficiency video coding, overlapped wavefront, parallel efficiency, parallel friendliness, parallel scalability, parallelization proposals, tiles, wavefront parallel processing

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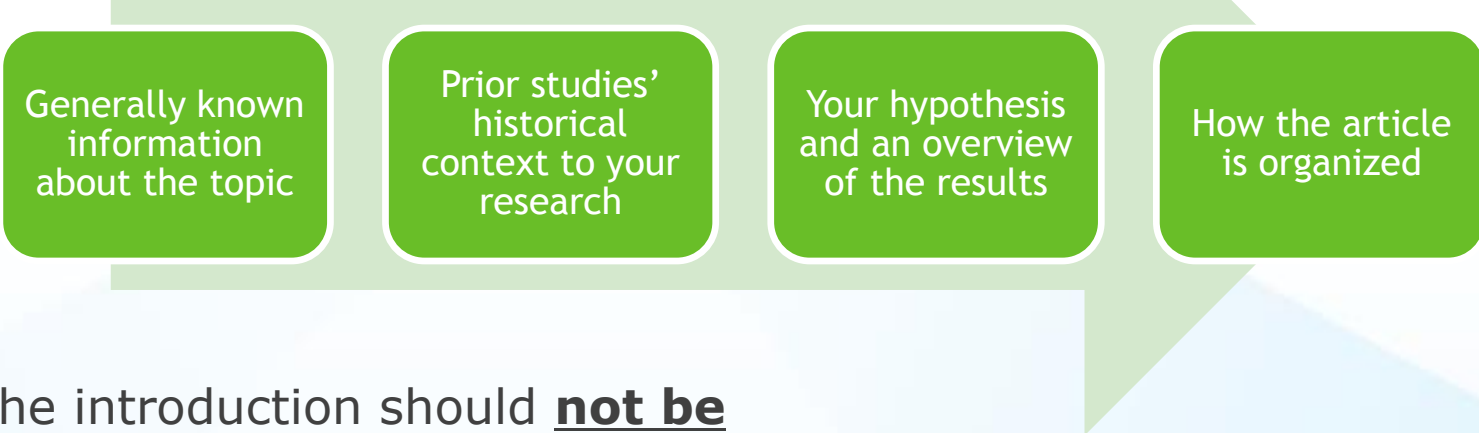
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Paper Structure

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

Paper Structure

Methodology

- 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



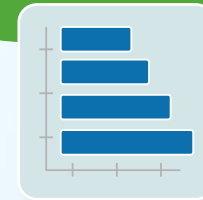
Figures

Quickly show ideas/conclusions that
would require detailed explanations



Graphs

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between data points
or trends in data



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Fig.1.

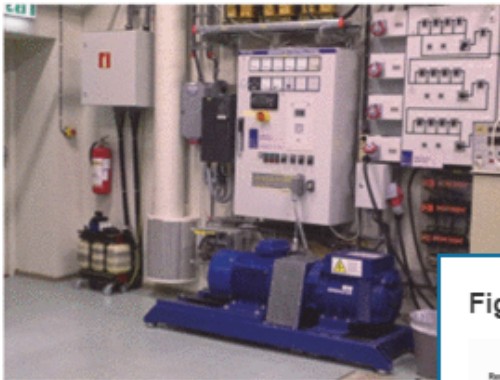


Fig. 2.

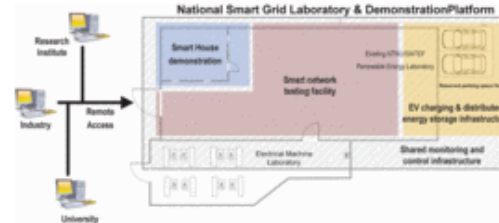
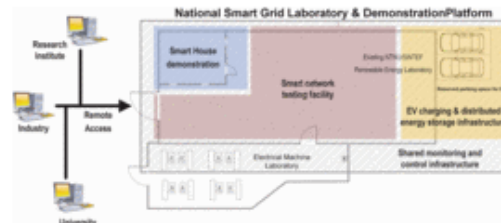


Fig. 3.



Fig. 2.



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Equations: Copy Source Code

The Test Case Prioritization Problem.

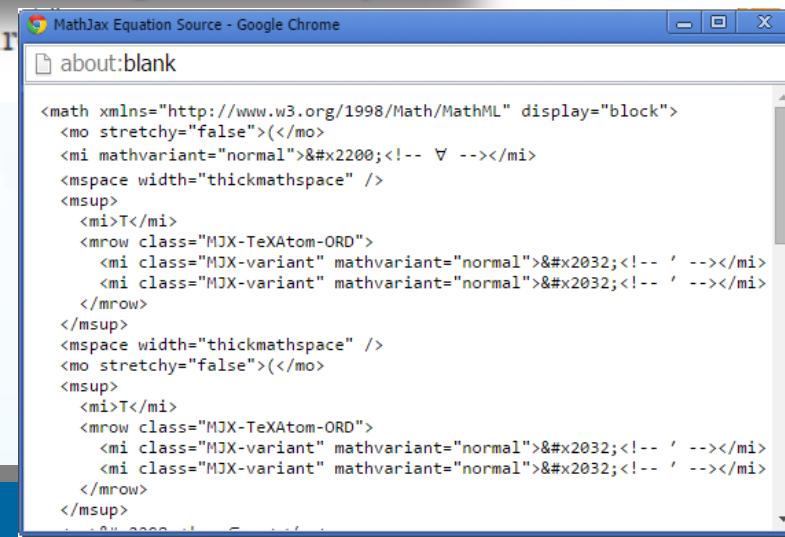
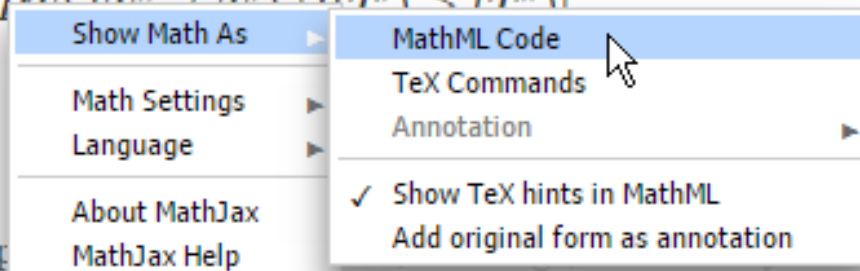
Given: T , a test suite; PT , the set of permutations of T ; f , a function from PT to the real numbers.

Problem: Find $T' \in PT$ such that

$$(\forall T'' (T'' \in PT) (f(T') \geq f(T'')))$$

► View Source ?

Here, PT represents the set of all permutations of T . The function f is a function that, applied to any such ordering, yields an award.



Equations: Zoom Function

The Test Case Prioritization Problem.

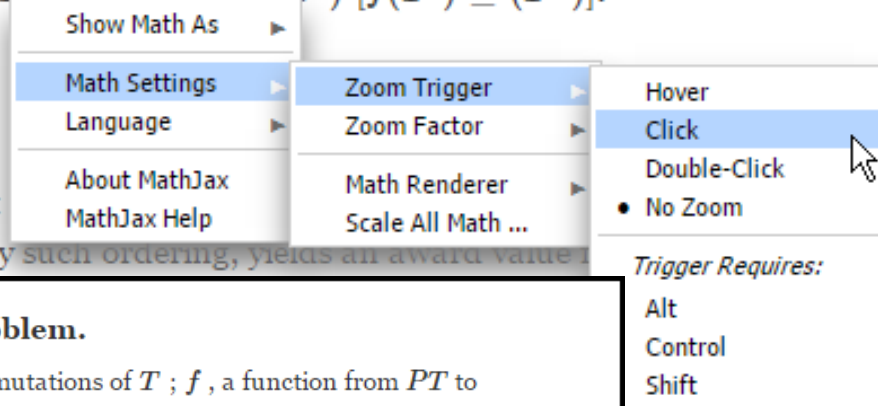
Given: T , a test suite; PT , the set of permutations of T ; f , a function from PT to the real numbers.

Problem: Find $T' \in PT$ such that

$$(\forall T'' (T'' \in PT) (T'' \neq T') [f(T') \geq (T'')]).$$

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Here, PT represents the set of all possible prioritizations (orderings) of T and f is a function that, applied to any such ordering, yields an award value for that ordering.



The Test Case Prioritization Problem.

Given: T , a test suite; PT , the set of permutations of T ; f , a function from PT to the real numbers.

Problem: Find $T' \in PT$ such that

$$(\forall T'' (T'' \in PT) (T'' \neq T') [f(T') \geq (T'')]).$$

► View Source ?

Here, PT represents the set of all possible prioritizations (orderings) of T and f is a function that, applied to any such ordering, yields an award value for that ordering.

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



Paper Structure

References

- Support and validate the hypothesis your research proves, disproves or resolves
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We then have

$$\begin{aligned} (P_t^{k+} + P_t^{k-})^2 &= (P_t^{k+} - P_t^{k-})^2 + 4P_t^{k+}P_t^{k-} \\ &< (\hat{P}_t^{k+} - \hat{P}_t^{k-})^2 + 4\hat{P}_t^{k+}\hat{P}_t^{k-} \\ &= (\hat{P}_t^{k+} + \hat{P}_t^{k-})^2 \end{aligned} \quad (32)$$

Since $P_t^{k+} - P_t^{k-} = \hat{P}_t^{k+} - \hat{P}_t^{k-}$, we then have $P_t^{k+} < \hat{P}_t^{k+}$ and $P_t^{k-} < \hat{P}_t^{k-}$. Because the operational cost is an increasing function of $\{P_t^{k+}, P_t^{k-}\}$, we obtain that

$$c_{0/10}(P_t^{k+}, P_t^{k-}) < c_{0/10}(\hat{P}_t^{k+}, \hat{P}_t^{k-}). \quad (33)$$

Therefore the optimal pair $\{P_t^{k+}, P_t^{k-}\}$ must satisfy that $P_t^{k+}P_t^{k-} = 0$, i.e., only one of P_t^{k+}, P_t^{k-} can be non-zero. ■

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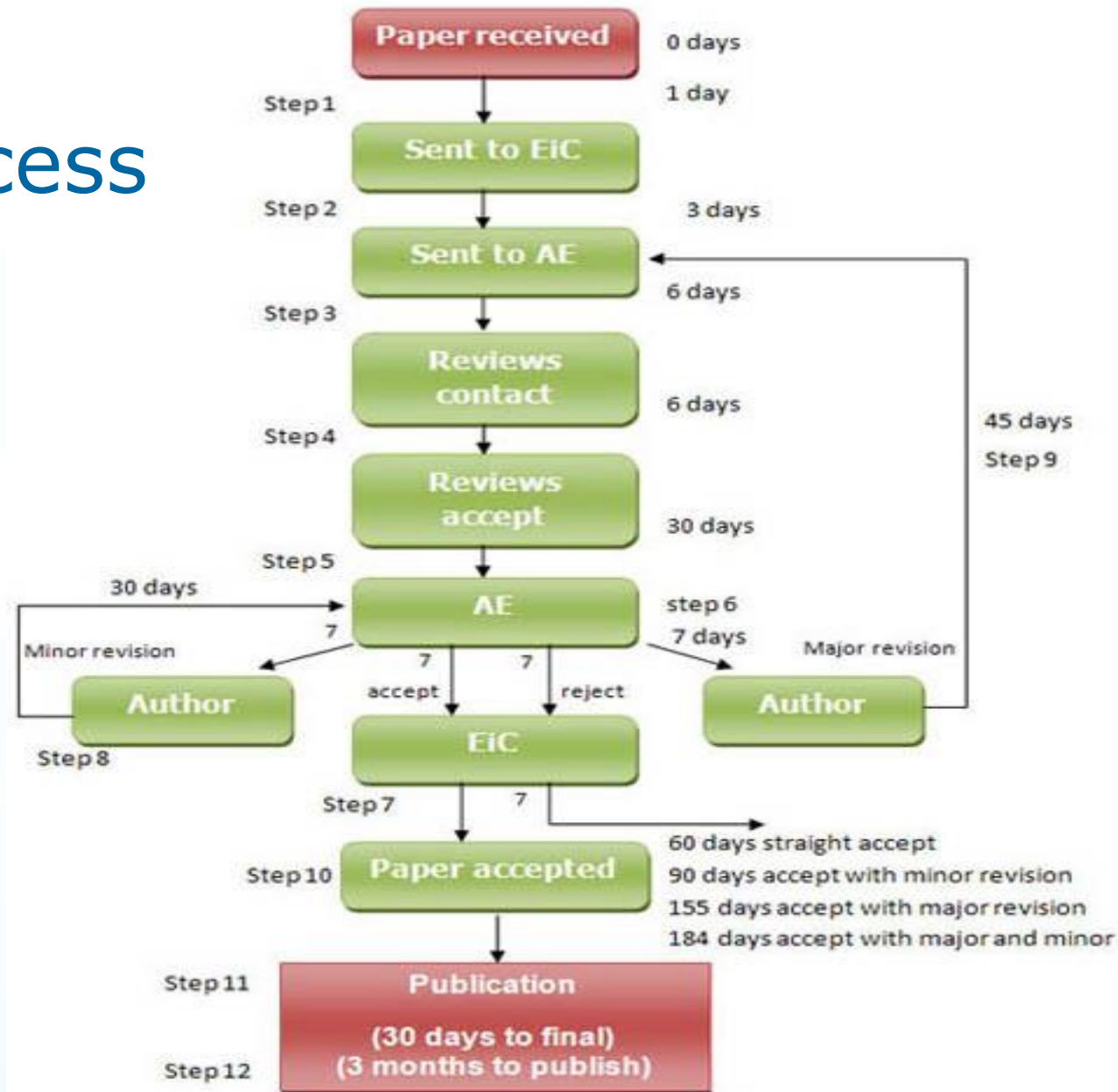


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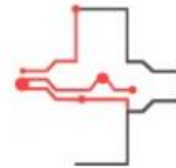


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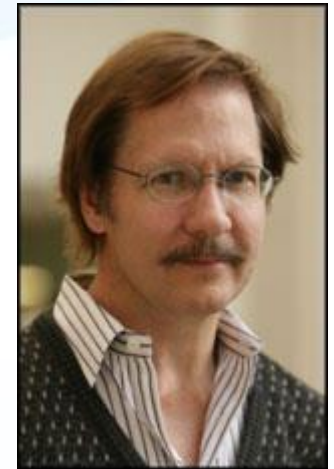
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Preparation of Papers for IEEE TRANSACTIONS and JOURNALS (December 2013)

First A. Author, *Fellow, IEEE*, Second B. Author, and Third C. Author, Jr., *Member, IEEE*

Abstract—These instructions give you guidelines for preparing papers for IEEE Transactions and Journals. Use this document as a template if you are using Microsoft Word 6.0 or later. Otherwise, use this document as an instruction set. The electronic file of your paper will be formatted further at IEEE. Paper titles should be written in uppercase and lowercase letters, not all uppercase. Avoid writing long formulas with subscripts in the title; short formulas that identify the elements are fine (e.g., "Ni-Fe-B"). Do not write "(Invited)" in the title. Full names of authors are preferred in the author field, but are not required. Put a space between authors' initials. Define all symbols used in the abstract. Do not cite references in the abstract. Do not delete the blank line immediately above the abstract; it sets the footnote at the bottom of this column.

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Use one space after periods and colons. Hyphenate complex modifiers: "zero-field-cooled magnetization." Avoid dangling participles, such as, "Using (1), the potential was calculated." [It is not clear who or what used (1).] Write instead, "The potential was calculated by using (1)." or "Using (1), we calculated the potential."

Use a zero before decimal points: "0.25," not ".25." Use "cm²," not "cc." Indicate sample dimensions as "0.1 cm × 0.2 cm," not "0.1 × 0.2 cm²." The abbreviation for "seconds" is "s," not "sec." Use "W/m²" or "watts per square meter," not "watts/m²." When expressing a range of values, write "7 to 9" or "7-9," not "7-9."



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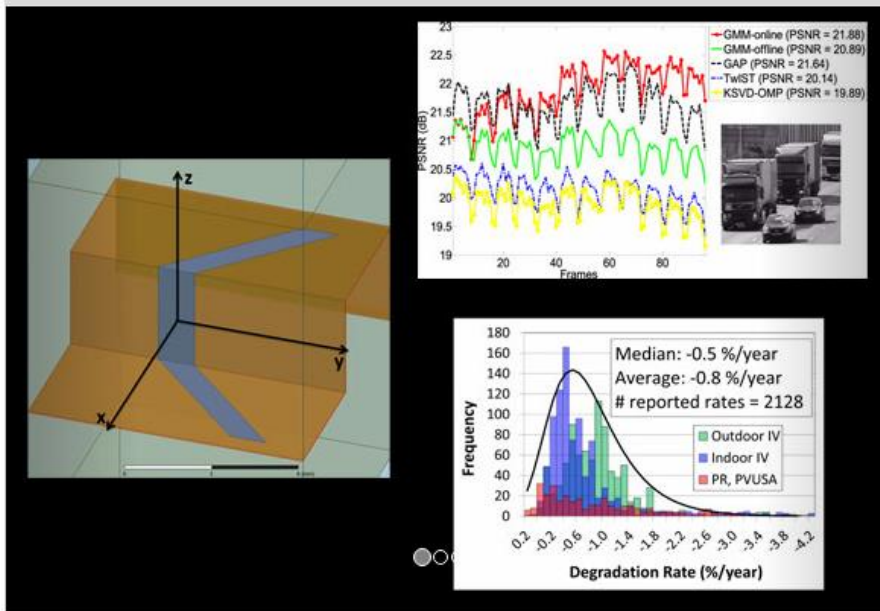
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
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