Techniques for effective searching with IEEE Xplore

Eszter Lukács
Client Services Manager Europe
1884: Where we came from
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
Marconi Biographical Details

- Marconi inventor of the first practical radio-signaling system

- 1897 - Patents his system in Great Britain; formed Marconi's Wireless Telegraphy Company Ltd.

- 1909 - Shares Nobel Prize in physics for his work in wireless telegraphy

- 1912 - Titanic sinks; Marconi testimony to the Court of Inquiry into the disaster Titanic regarding the marine telegraphy's functions and the procedures for emergencies at sea.

- Paradigm shift: early wireless on board ships was for commercial messaging for profit – “MarconiGrams”

TITANIC SINKS FOUR HOURS AFTER HITTING ICEBERG;
866 RESCUED BY CARPATHIA, PROBABLY 1250 PERISH;
ISMAE SAFE, MRS. ASTOR MAYBE, NOTED NAMES MISSING


"RULE OF SEA" FOLLOWED

Woman and Children Put On in Lifeboats and Are Supposed to Be Safe on Carpathia.
Picked Up After 8 Hours

Winston Churchill Sail White Star Liner for Home of His Father and London Weeping.

Chairman of Board, All Day

Manager of the Line Insisted Those Were Wthoutheads Even After the Ship was Sunk.

HEAD OF THE LINE ABOARD

A strand along helping hands to make way. The ship was assisted. Only 2000 miles away.

The Lost Titanic Being Towed Out of Belfast Harbor.

PARTIAL LIST OF THE SAVED.

included Bruce Ismay, Mrs. Walcot, Mrs. H. K. Astor, and an Incomparable woman suggesting Mrs. Astor's.

Biggest Liner Plunge to the Bottom at 2:35 A.M.

Rescuers there too late.

Tried to Pick Up the Few Hundred Who Found in the Water.

Women and Children First

Transfer Passengers Busing to New York with the Germans.

Sea Search for Others

The Californian by choice of Points of Interest is at Bally or Belfast.

Olympic beside the News

The Californian's 2nd Officer is in 3/4th of the Lifeboats, and the rescued are on board.
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.”


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)
About the IEEE

- World’s largest technical membership association with more than 430,000 members in over 160 countries
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- 15 year anniversary in 2015!
2016 Region 8 Outstanding Large Section Award

La nostra Sezione è risultata vincitrice del premio 2016 Region 8 Outstanding Large Section Award. La cerimonia di premiazione ha avuto luogo a Stoccolma nel corso della riunione della Region 8, il 25 marzo scorso. Il premio è frutto di un

History Activity Committee. Riunione a Padova del 10 marzo 2017

L’History Activity Committee è stato istituito dalla Sezione Italiana nel 2016 per sviluppare attività di promozione della storia della tecnologia elettrica e, in particolare, per incentivare proposte italiane di IEEE Milestones. La riunione è servita prima di tutto per una migliore conoscenza

2016 Region 8 Outstanding Large Section
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- University of Rome La Sapienza
  Chair: Alice Pellegrino (ali.pellegrino.92@gmail.com)
  Counselor: Luigi Parise (luigi.parise@uniroma1.it)

- University of Roma Tor Vergata
  Conselour: Paolo Ferrazzoli
  (ferrazzoli@disp.uniroma2.it)
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More info: www.ieee.org/citations
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A study of the top 40 patenting organizations ranks IEEE #1 again

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- 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 2016
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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 2016. Based on number of references to papers/standards/conferences from 1997-2015
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Source: 1790 Analytics LLC 2012, Science References from 1997-2011
Technology areas where patents cite IEEE most

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Source: 1790 Analytics LLC 2015
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---

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 intraneural 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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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 with increasing awareness of new opportunities.
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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 an entertainment robot in the future. In this talk, I hope to share our progress with Disney in animation.

As examples of characters I discuss two newer iterations of the Disney theme park, and the characters developed in conjunction with this project and has made an impact.

---

**Ray Tracing for the Movie ‘Cars’**

Per H. Christensen  
Julian Fong  
David M. Laur  
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 allows for additional effects.

A texture cache keeps recently accessed texture tiles ready for fast access. This combination of ray differentials and caching makes ray tracing of very complex scenes feasible.

This paper first gives a more detailed motivation for the use of ray tracing in ‘Cars’, and lists the harsh 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 our work on efficient ray tracing of equally 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...
New IEEE Journals Planned for 2017

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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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IEEE Transactions on Microwave Theory and Techniques
Year: 2017, Volume: PP, Issue: 99
Pages: 1 - 12, DOI: 10.1109/TMTT.2017.2672938

A compact printed extremely-wideband MIMO antenna with WLAN band rejection
Hoang T. Viet; Bui V. Ha; Nguyen K. Kiem; Dao N. Chien; Riccardo E. Zich
2011 International Conference on Electromagnetics in Advanced Applications
Year: 2011
Pages: 877 - 880, DOI: 10.1109/ICEAA.2011.6046459
Cited by: Papers (4)
Simulation of scattering by cylindrical targets hidden behind a layer
Cristina Ponti; Lara Pajewski; Giuseppe Schettini
Proceedings of the 15th International Conference on Ground Penetrating Radar
Year: 2014
Pages: 560 - 564, DOI: 10.1109/ICGPR.2014.6970486
IEEE Conference Publications

Microwave performance of surface channel diamond MESFETs
P. Calvani; A. Corsaro; F. Sinisi; M. C. Rossi; G. Conte; S. Carta; E. Limiti
2009 IEEE Nanotechnology Materials and Devices Conference
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By Alejandro Frery, Universidade Federal de Alagoas, Editor-in-Chief of IEEE Geoscience and Remote Sensing Letters

Digital Object Identifier: 10.1109/LGRS.2015.2404211

After more than a year of serving as Editor-In-Chief, I have collected impressions from authors, reviewers and Associate Editors about certain patterns that lead to having manuscripts accepted. This Editorial aims at sharing these impressions. This text also provides an overview of the indispensable Author Digital Tool Box,
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<td><strong>2018 IEEE World Congress on Computational Intelligence (WCCI)</strong></td>
<td>08 Jul - 13 Jul 2018</td>
<td>Windsor Barra Convention Centre</td>
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<td>Rua Martinho de Mesquita Barra da Tijuca Rio de Janeiro, Brazil</td>
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Structure
Paper Structure

Elements of a manuscript

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

Efficiency Optimization in Low Inertia Wells Turbine-Oscillating Water Column Devices

Sahadeo Ceballos, Andy Ria, Tahir Lopez, Jose Pina, Senior Members, IEEE; Tyler Robbins, and David I. Umilta

The oscillating water wave (OWW) devices are based on the principles of ocean oscillations, and are primarily used for wave energy conversion. They consist of a floating device that is tied to the shoreline or a seabed. The oscillations of the water column produce waves that drive the device, which in turn is connected to an electrical generator. The efficiency of these devices can be improved by optimizing the design parameters, such as the size of the wave absorber, the height of the column, and the shape of the oscillating device. In this study, we present a methodology for optimizing the design parameters of OWW devices, which involves modeling the physical processes and performing simulations to evaluate the performance of different designs.

This methodology involves the following steps:

1. Define the problem: Determine the objectives and constraints of the design.
2. Model the system: Develop a mathematical model of the device and the environment.
3. Perform simulations: Use numerical methods to solve the equations and evaluate the performance of different designs.
4. Analyze the results: Interpret the simulation results and identify the optimal design parameters.
5. Validate the design: Test the optimized design in a laboratory or field environment to ensure its feasibility and performance.

By following this methodology, we can improve the efficiency of OWW devices and make them more practical for energy production.
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 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”
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

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
Abstract: EDS

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

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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**.
Abstract: SBS

The abstract must be a concise yet comprehensive reflection of what is in your article.

The abstract must be self-contained, without abbreviations, footnotes, displayed equations, or references.

The abstract must be between 150-250 words.

The abstract should include a few keywords or phrases, as this will help readers to find it. Avoid over-repetition of such phrases as this can result in a page being rejected by search engines.
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.

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.
Graphical Abstract

- The Graphical Abstract should provide a **visual summary of the findings of the article** by means of an **image, animation, movie, or audio clip**.

- visual or audio highlight of the main point of your article.

- It should represent a microcosm of the full article.

- Include a caption or explanatory note about the visual or audio highlight.

Follow the requirements for submitting multimedia as provided at:
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
Keywords link to potential reviewers

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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

Fig. A
Distributed generation system emulator set with controls in the laboratory.
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

$$(\forall T'' ) (T'' \in PT) \left( f(T') > f(T'') \right)$$

Here, $PT$ represents the set of all possible permutations of $T$, and $f$ is a function that, when applied to any permutation of $T$, yields a real number.
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

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

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

Results/discussion

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

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

• IEEE journals generally follow a citation numbering system

IEEE TRANSACTIONS ON SMART GRID, VOL. 5, NO. 4, JULY 2014

We then have

\[
(P_w^0 + P_{\text{loss}}^0)^2 + P_{\text{loss}}^0 = \left(P_{\text{loss}}^0 - \frac{1}{2} P_{\text{loss}}^0 \right)^2 + 4 \left( P_{\text{loss}}^0 \right)^2
\]

Since \( P_{\text{loss}}^0 > 0 \), \( P_{\text{loss}}^0 < 0 \), only those have \( P_{\text{loss}}^0 > 0 \), \( P_{\text{loss}}^0 < 0 \), and \( P_{\text{loss}}^0 = 0 \). Hence the optimal point is the increasing function of \( P_{\text{loss}}^0 \), \( \text{maximize}

\[
\left( P_{\text{loss}}^0 \right)_{\text{opt}} = \frac{1}{2} \left( P_{\text{loss}}^0 \right)^2
\]

Therefore the optimal pair \( (P_{\text{loss}}^0, P_{\text{loss}}^0) \) must satisfy that

\[
(P_{\text{loss}}^0, P_{\text{loss}}^0) = (0, 0)
\]

REFERENCES


Review

Review Process

e.g. IEEE Transactions on Information Technology in Biomedicine
Why IEEE editors and reviewers reject papers

- The content is **not a good fit for the publication**
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  - Fraudulent research
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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

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Define abbreviations and acronyms the first time they are used in the text, even after they have already been defined in the abstract. Abbreviations such as IEEE, SI, ac, and dc do not have to be defined. Abbreviations that incorporate periods should not have spaces: write "C.I.R.S.,” not "C. I. R. S.". Do not use abbreviations in the title unless they are unavoidable (for example, "IEEE" in the title of this article).

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