

IEEE Xplore[®] Digital Library

--Evolving to Meet YOUR Changing Needs—

Eszter Lukács
IEEE Client Services Manager
e.lukacs@ieee.org

Czech Technical University in Prague

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

Career Development Resources and Opportunities for student members

IEEE Job Sites and Career Alerts

- ❑ Locate career opportunities easily and confidentially
- ❑ Weekly email newsletter containing career advice

IEEE Xplore

- ❑ Learn to use IEEE Xplore for company, career, and job related searches

Awards, Fellowships & Scholarships

- ❑ Recognizes the accomplishments of IEEE members
- ❑ Enhance your resume with an IEEE award

Conferences

- ❑ Networking and Presenting Opportunities
- ❑ Student Paper Contests

Education Partners Program (EPP-IEEE)



IEEE Job Site
FEATURED JOBS

Senior Research
Athlone, Ireland
Ericsson Ireland

Electrical Engineer
Palmetto, FL
ITW GSE Group -
Trilectron

**Electromagnetic
Research Scientist**
Champaign, IL
SAIC

**Automation/Controls
Engineer (Robotics)**
Carlsbad, CA 92008
Callaway Golf
Company

Aerospace Engineer
Hampton, VA
SAIC

**Cost Engineer/Cost
Manager**
Washington, DC
20560-0908
Smithsonian
Institution

**Staff Equipment
Engineer**
Santa Clara, CA
95128
Affymetrix, Inc.

Prestigious Student Competitions

Think you
can code?

IEEEX**TREME**:
the 24-hour global programming
battle for student coders

Prove it.



Worldwide, 24-hour programming challenge
for IEEE Student Branches

Teams of student members, advised and proctored
by an IEEE Member, compete in a 24-hour time span against each
other to solve a set of programming problems.

Top prize is a trip
anywhere in the world
to the IEEE event of the top team's choice!

Teams registered in 2013:

1,838

And don't forget IEEE Day 2014



IEEE *Xplore* for your career

- Search to **find contacts**
- Search to **find relevant employers** – by topic and location
- Set a search **alert to keep updated**
- Search to **make an impression in an interview**

IEEE covers all areas of technology

More than just electrical engineering & computer science

OPTICS **RENEWABLE ENERGY** **PHOTONICS**
SEMICONDUCTORS **SMART GRID**
IMAGING **INFORMATION TECHNOLOGY**
COMMUNICATIONS **AEROSPACE** **CIRCUITS**
BIOMEDICAL ENGINEERING **ELECTRONICS**
LTE WIRELESS BROADBAND **NANOTECHNOLOGY**
OIL & GAS **CLOUD COMPUTING**
RF **CYBER SECURITY** **MEDICAL DEVICES**

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

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 Ultrasonics, Ferroelectrics, and Frequency Control Society

IEEE Vehicular Technology Society

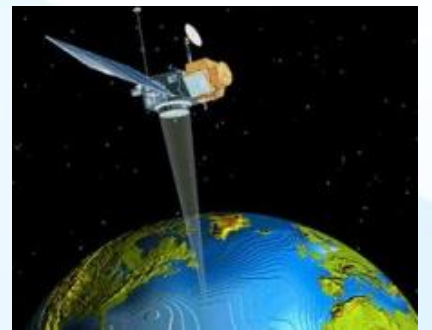


You have access to IEEE/IET Electronic Library (IEL)

- More than 3,4 million FT documents
- 166 IEEE journals & magazines
- 1200+ annual IEEE conferences + 43 VDE conferences
- More than 2,500 IEEE standards (active, archived, redlines, drafts) + IEEE Standard Dictionary
- 20 IET conferences, 26 IET journals & magazines
- **NEW! Bell Labs Technical Journal (BLTJ) 1996-1922**
- Inspec index records for all articles
- Backfile to 1988, select legacy data back to 1872

New IEEE Journals in 2013

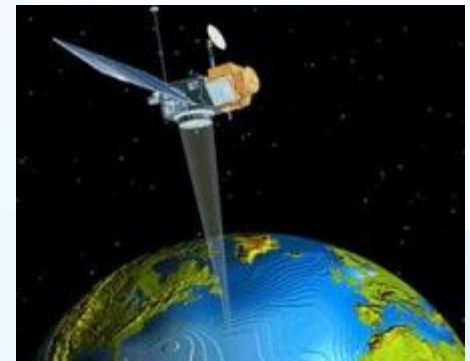
- *IEEE Transactions on Cloud Computing*
- *IEEE Journal of Emerging and Selected Topics in Power Electronics*
- *IEEE Geoscience and Remote Sensing Magazine*
- *China Communications Magazine*
(from the China Institute of Communications)
- *IEEE Revista Iberoamericana de Tecnologías del Aprendizaje (IEEE-RITA)*
(Latin America learning technology journal)



For a complete title listing, to go: <http://ieeexplore.ieee.org/xpl/opacjrn.jsp>

New IEEE journals in 2014

- IEEE/CAA Journal of Automatica Sinica
- IEEE Cloud Computing
- IEEE Transactions on Computational Social Systems
- IEEE Transactions on Control of Network Systems
- IEEE Electrification Magazine
- IEEE Internet of Things Journal
- IEEE Transactions on Network Science and Engineering
- IEEE Power Electronics Magazine



For a complete title listing, to go: <http://ieeexplore.ieee.org/xpl/opacjrn.jsp>

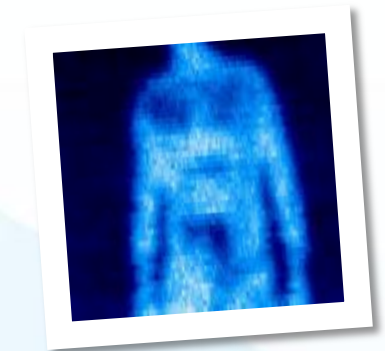
All included in an IEL subscription

New IEEE journals for 2015

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

For a complete title listing, to go: <http://ieeexplore.ieee.org/xpl/opacjrn.jsp>

All included in an IEL subscription



IEEE quality makes an impact

Thomson Reuters Journal Citation Reports® by Impact Factor

IEEE publishes:

19 of the top 20 journals in Electrical and Electronic Engineering

18 of the top 20 journals in Telecommunications

7 of the top 10 journals in Automation & Control Systems

6 of the top 10 journals in Computer Science, Hardware & Architecture

4 of the top 5 journals in Cybernetics

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 2013 study released June 2014

More info: www.ieee.org/citations

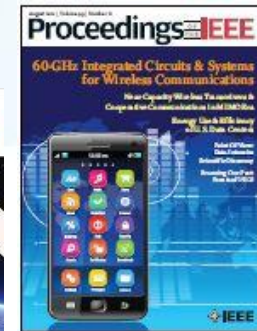


IEEE quality makes an impact

Thomson Reuters Journal Citation Reports® by Impact Factor

IEEE journals are:

- # 1 in Automation and Control
- # 1 in Computer Hardware
- # 1 in Cybernetics
- # 1 in Electrical Engineering
- # 1 in Industrial Engineering
- # 1 in Manufacturing Engineering
- # 1 in Robotics
- # 1 in Telecommunications
- # 2 in Aerospace
- # 2 in Information Systems
- # 2 in Imaging Science

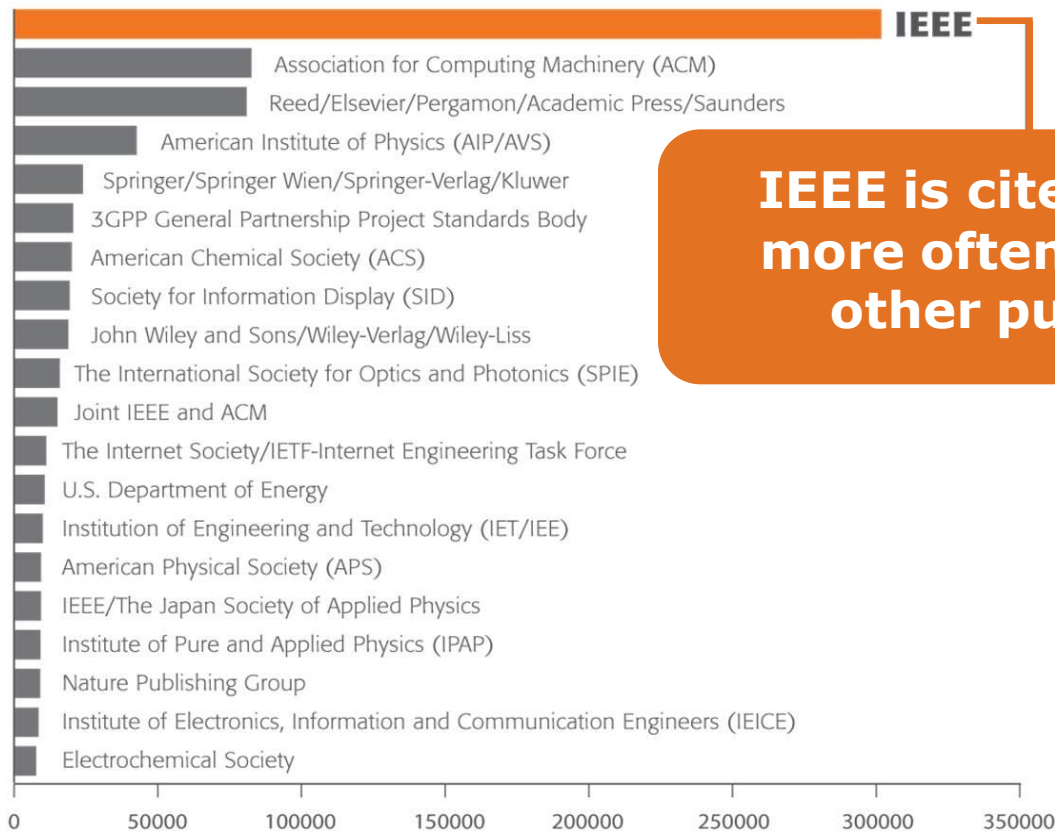


The Thomson Reuters Journal Citation Reports presents quantifiable statistical data that provides a systematic, objective way to evaluate the world's leading journals.

Based on the 2013 study released June 2014

IEEE Leads in 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 2014. Based on number of references to papers/standards/conferences from 1997–2013.

More info: www.ieee.org/patentcitations

IEEE Xplore Home page – IP access

BROWSE

Books & eBooks

Conference
Publications

Education &
Learning

Journals &
Magazines

Standards

By Topic ▾

MY SETTINGS ▾

WHAT CAN I ACCESS?

[About IEEE Xplore](#)

[Terms of Use](#)

[Feedback](#)



Search 3,177,530 items

SEARCH

[Advanced Search](#) | [Preferences](#) | [Search Tips](#) |
[More Search Options](#) ▾

QUICK LINKS

[Manage Alerts](#)

[Training & Tools](#)

[IEEE Xplore Mobile](#)

Highlights

What's Popular

Most Recent

MORE HIGHLIGHTS:



1

2

3

4



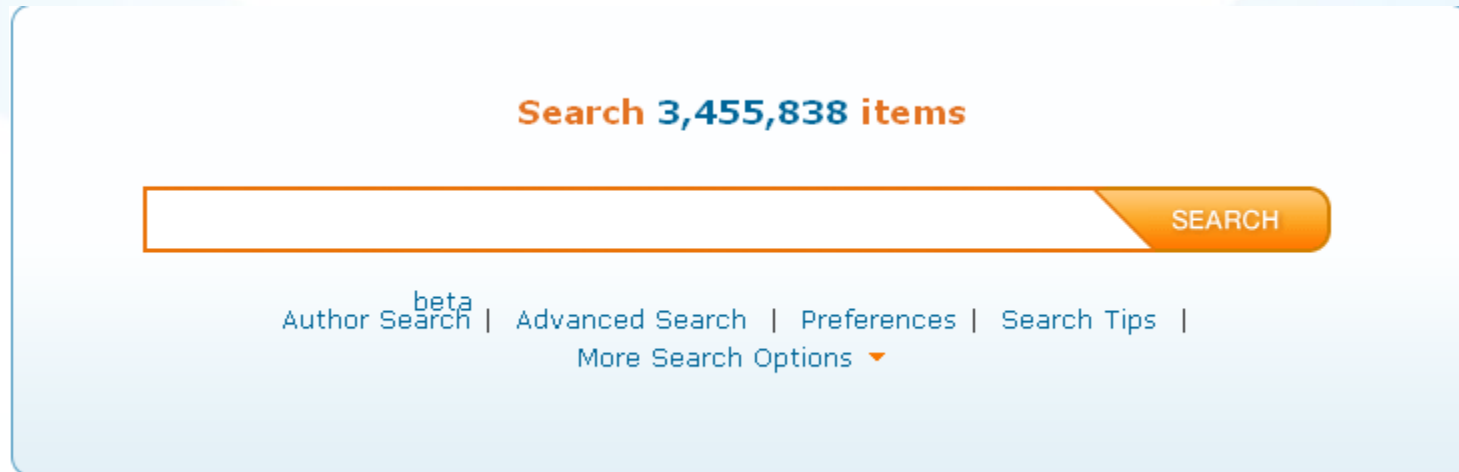
Become a Member.

Save 50% if You Join IEEE Today!

An individual personal account to IEEE Xplore gives you the ability to set and save preferences to optimize your research experience. With a free account, IEEE Xplore will allow you to:

- Get exclusive IEEE member discounts on research and conferences.
- Network with technology professionals around the world.
- Access all the latest technology news with myIEEE, your personal Web portal.

Basic Search Bar




- ANDs search terms
- Use quotes (“”) for an exact phrase
- Searching **metadata only**
- Automatic stemming
- Case insensitive
- Type-ahead (aka auto suggest) functionality

Type ahead from Basic Search

IEEE.org | IEEE Xplore Digital Library | IEEE Standards | IEEE Spectrum | More Sites Cart (0) | Create Account | [Sign In](#)

IEEE Xplore[®]
DIGITAL LIBRARY

Access provided by:
IEL Demo User
[» Sign Out](#)



BROWSE | MY SETTINGS ▾ | MY PROJECTS | WHAT CAN I ACCESS? | [About IEEE Xplore](#) | [Terms of Use](#) | [Feedback](#) ⓘ

- Books & eBooks
- Conference Publications
- Education & Learning
- Journals & Magazines
- Standards
- By Topic ▾**

QUICK LINKS

- Manage Alerts
- Training & Tools
- IEEE Xplore Mobile

Search 3,466,880 items

secu SEARCH

- » Security
- » Security Of Data
- » Security & Privacy, IEEE
- » Security Analysis
- » Secure Storage
- » Secure Communication
- » Security Policy
- » Security Requirements
- » Security Threats
- » Security Management
- » Security Issues
- » Security Protocols
- » Security Architecture

Highligh

4 5

e

tinues
ion,
em
f the
...

Search Results and refinements

FILTER THESE RESULTS

Search within results:

Search

- All Results
- My Subscribed Content
- Open Access Only

CONTENT TYPE

- Conference Publications (12,759)
- Journals & Magazines (2,240)
- Books & eBooks (69)
- Early Access Articles (59)
- Standards (42)
- Education & Learning (6)

PUBLICATION YEAR

- Single Year
- Range



From:

To:

SEARCH RESULTS

You searched for: **Security** , **power**

You Refined by:

Publication Year: **1999 - 2013**

15,175 Results returned

Results per page

Sort by:

Select All on Page |

« First | **1** | 2 | 3 | 4 | 5 | >>

Deselect All

Last »

- Set Search Alert
- Download Citations
- Save to Project
- Email Selected Results
- Print
- Export Results

2006 IEEE **Power** Engineering Society General Meeting

Power Engineering Society General Meeting, 2006. IEEE
Digital Object Identifier: 10.1109/PES.2006.1709139
Publication Year: 2006

IEEE CONFERENCE PUBLICATIONS

| Quick Abstract | PDF (35 KB)

2003 IEEE **Power** Engineering Society General Meeting (IEEE Cat. No.03CH37491)

Power Engineering Society General Meeting, 2003, IEEE
Volume: 2
Digital Object Identifier: 10.1109/PES.2003.1270354
Publication Year: 2003

IEEE CONFERENCE PUBLICATIONS

| PDF (451 KB)

2000 IEEE **Power** Engineering Society Winter Meeting. Conference Proceedings (Cat.

SEARCH HISTORY

Search History is available using your personal IEEE account.

STANDARDS DICTIONARY TERMS (What's this?)

rf
osi
nonce
cw
bpsk

Browse Standards Dictionary

Abstract Plus

[Browse Journals & Magazines](#) > [Smart Grid, IEEE Transactions ...](#) > [Volume:2 Issue:4](#)

[« Prev](#) | [Back to Results](#) | [Next »](#)

A Secure Framework for Protecting Customer Collaboration in Intelligent Power Grids

 [Full Text as PDF](#)

 [Full Text in HTML](#)

4

Author(s)

[Hyejin Son](#) ; Sch. of Electr. Eng., Korea Univ., Seoul, South Korea ; [Tae Yoon Kang](#) ; [Hwangnam Kim](#) ; [Jae Hyung Roh](#)

Abstract

Authors

References

Cited By

Keywords

Metrics

Similar

 Download Citations

 Email

 Print

 Request Permissions

 Save to Project

Much interest and research have emerged to implement and improve the smart grid. The smart grid is the **power** infrastructure whose intellectual capability is enhanced with communication networks. In addition to communication networks, a bidirectional flow of both **power** and information enables the customers to actively participate in the whole procedure of **power** generation, transport, distribution, and consumption. In this paper, we propose the concept of collaborative customer to combine two or more customers into a single customer community, under which the customers collaborate on a **power**-sharing to reduce their expenditure for electricity **power**. However, the collaboration can be easily disrupted in the presence of malicious or selfish behaviors. In order to address the security issue, we present a brand-new security scheme, called the voucher scheme, for securely trading the right on **power** usage among members of a collaborative customer. When the voucher scheme is enabled, a **power** customer who wants to use extra **power** issues a certificate, called voucher that is immune to various security attacks, to a **power** customer who is willing to transfer its right on **power** usage to the former customer, so that both the customers can have monetary benefits. We formally define the security model for the voucher scheme and prove

References & Citing Documents

4
Author(s)

Hyejin Son ; Sch. of Electr. Eng., Korea Univ., Seoul, South Korea ; Tae Yoon Kang ; Hwangnam Kim ; Jae Hyung Roh

Abstract

Authors

References

Cited By

Keywords

Metrics

Similar



Download Citations



Email



Print



Request Permissions



Save to Project



0



Like

0



Tweet

0



Share

Showing 1-4 of 4 Results

Cited by IEEE



1. Mokhtari, G.; Zare, F.; Nourbakhsh, G.; Ghosh, A. "A new DER coordination in LV network based on the concept of distributed control", *Power Electronics for Distributed Generation Systems (PEDG), 2012 3rd IEEE International Symposium on*, On page(s): 1 - 8
[Abstract](#) | Full Text: [PDF](#) (1825KB)
2. Hong Liu; Huansheng Ning; Yan Zhang; Guizani, M. "Battery Status-aware Authentication Scheme for V2G Networks in Smart Grid", *Smart Grid, IEEE Transactions on*, On page(s): 99 - 110 Volume: 4, Issue: 1, March 2013
[Abstract](#) | Full Text: [PDF](#) (5064KB)
3. Hong Liu; Huansheng Ning; Yan Zhang; Yang, L.T. "Aggregated-Proofs Based Privacy-Preserving Authentication for V2G Networks in the Smart Grid", *Smart Grid, IEEE Transactions on*, On page(s): 1722 - 1733 Volume: 3, Issue: 4, Dec. 2012
[Abstract](#) | Full Text: [PDF](#) (3894KB)
4. Taeyoon Kang; Hwangnam Kim "Preserving privacy with anonymity for customer collaboration in smart grid", *Communications (APCC), 2012 18th Asia-Pacific Conference on*, On page(s): 724 - 729
[Abstract](#) | Full Text: [PDF](#) (157KB)

Advanced Search – Affiliation & Fields

Advanced Search Options

Advanced Keyword/Phrases | Command Search | Publication Quick Search | Preferences ?

ENTER KEYWORDS OR PHRASES, SELECT FIELDS, AND SELECT OPERATORS

Note: Refresh page to reflect updated preferences.

Search : Metadata Only Full Text & Metadata ?

in

in

in

Content Filter

All Results
 My Subscribed Content
 Open Access Only

Publisher

Return Results from

<input type="checkbox"/> IEEE(2,930,811)	<input type="checkbox"/> IBM(6,135)
<input type="checkbox"/> AIP(270,075)	<input type="checkbox"/> VDE(4,557)
<input type="checkbox"/> IET(204,108)	<input type="checkbox"/> BIAI(2,434)
<input type="checkbox"/> AVS(36,034)	<input type="checkbox"/> TUP(2,181)

LEARN MORE ABOUT

- » Data Fields »
- » Search Examples »
- » Search Operators »
- » Search Guidelines »

Metadata Only
Document Title
Authors
Publication Title
Abstract
Index Terms
Author Affiliations
Accession Number
Article Number
Author Keywords
DOE Terms
DOI
IEEE Terms
INSPEC Controlled Terms
INSPEC Non-Controlled Terms
ISBN
ISSN
Issue
MeSH Terms
PACS Terms

Save Search

FILTER THESE RESULTS

Search within results:

All Results
 My Subscribed Content
 Open Access Only

CONTENT TYPE

Conference Publications (3,922)
 Journals & Magazines (3,075)
 Early Access Articles (3)

PUBLICATION YEAR

Single Year Range

1931 2013

From:
To:

SEARCH RESULTS

You searched for: (((("Author Affiliations":boeing) OR "Author Affiliations":raytheon) C

Results per page

Select All on Page | Deselect All

A network-centric approach to airspace security
Stamm, R.J. ; McCleas
Aerospace Conference
Digital Object Identifie
Publication Year: 2006
Cited by 1
IEEE CONFERENCE P

Real-time performance of computer aided detection in bottom mines in the
Ciany, C.M. ; Zurawski, W.C. ; Dobeck, G.J. ;
Weilert, D.R.
OCEANS 2003. Proceedings
Volume: 2

SEARCH HISTORY

SAVED SEARCH

Address shown is from information saved in your preferences.

Saved Search Name *:

Query: You searched for: (((("Author Affiliations":boeing) OR "Author Affiliations":raytheon) OR "Author Affiliations":lockheed)

Email Address: saws824@yahoo.com

SET ALERT

You will receive email alerts whenever new content that matches your saved search is added to IEEE Xplore. If you don't wish to receive such email alerts, please uncheck this box.

Command Search

Advanced Search Options

Advanced Keyword/Phrases

Command Search

Publication Quick Search

Preferences

ENTER KEYWORDS OR PHRASES, SELECT FIELDS, AND SELECT OPERATORS

Note: Refresh page to reflect updated preferences.

Search **IEEE Xplore**
DIGITAL LIBRARY

For Institutional Users:

- ▶ Institutional Sign In
- ▶ Athens/Shibboleth



BROWSE

Books & eBooks

Conference Publications

Education & Learning

Journals & Magazines

Standards

By Topic

MY SETTINGS

WHAT CAN I ACCESS?

About IEEE Xplore | Terms of Use | Feedback

Search **3,238,707 items**

SEARCH

Advanced Search | Preferences | Search Tips |
[More Search Options](#)

More Search Options

▶ Command Search

▶ Publication Quick Search

▶ Saved Searches and Alerts

▶ Search History

Highlights

What's Popular

Most Recent

MORE HIGHLIGHTS



Now in IEEE Spectrum

The cover article in the current issue of IEEE Spectrum

Collaborate with
The Members of IEEE

Join or Renew today

Command Search

Advanced Search Options

Advanced Keyword/Phrases

Command Search

Publication Quick Search

Preferences

ENTER KEYWORDS, PHRASES, OR A BOOLEAN EXPRESSION

Note: Use the drop down lists to generate the correct Operator and Data Field Codes.

This wizard will NOT build your expression. View examples of how to write a boolean search string

Search : Metadata Only Full Text & Metadata [» Learn more about metadata](#)

Data Fields

Operators

security NEAR/7 defense

Reset All

SEARCH

LEARN MORE ABOUT

- » Data Fields »
- » Search Examples »
- » Search Operators »
- » Search Guidelines »

SEARCH GUIDELINES

Security AND defense

MetaData only

4,087 papers

MetaData and Full text

38,065 papers

Security NEAR/7 defense

MetaData only

1,095 papers

MetaData and Full text

8,403 papers

IP Access vs IEEE Personal Account

IP = Full text Access

**IEEE Personal Account = save searches, TOC alerts, & preferences.
*Does not provide full text access.***

An IEEE Personal Account without IP access = NO full text access

The screenshot displays the IEEE Xplore website interface. At the top, there is a navigation bar with links for "Library", "IEEE Standards", "IEEE Spectrum", "More Sites", "Cart(0)", "Create Account", and "Sign In". Below this, a dropdown menu for "For Institutional Users:" is open, showing options for "Institutional Sign In" and "Athens/Shibboleth". The IEEE logo is visible in the top right. A secondary navigation bar includes "MY SETTINGS", "WHAT CAN I ACCESS?", "About IEEE Xplore", "Terms of Use", and "Feedback". The main content area features a search bar with the text "Search 3,238,454 items" and a "SEARCH" button. Below the search bar are links for "Advanced Search", "Preferences", "Search Tips", and "More Search Options". The IEEE logo is also present in the bottom right corner of the page.

IEEE Personal Account Registration

Cart(1) | [Create Account](#) |  [Sign In](#)



To take advantage of personalization features, such as search preferences and saved search alerts, users need to create an IEEE account by selecting the “Create Account” link on the top of any IEEE web page.

IEEE Personal Account Registration

Register for an IEEE Account ?

*Required fields

Provide your personal information

*Given/First name:

*Last/Family/Surname:

Enter e-mail address & password

The e-mail address provided here will be the username of your account

*E-mail address:

*Re-enter e-mail address:

*Password:

*Confirm Password:

What is a valid password?

Set security questions ?

For your security, IEEE Accounts are required to have two security questions and answers.

*Security question 1:

*Type Your Answer:

*Security question 2:

*Type Your Answer:

The IEEE account registration process is an easy 3-click process – just fill out your First Name, Last Name, email address, password and two security questions.

Username = Email Address


IEEE is updating its member and non-member user accounts for greater convenience and security. Going forward, the username for all IEEE Accounts will now be an e-mail address.

* Required fields

Add or Confirm E-mail Address (Your New Username)

Choose an existing e-mail address or add a new one.

Select an e-mail address on file:

Add another e-mail address 

* E-mail address:

demotest3@ieee.org

* Confirm e-mail address:

demotest3@ieee.org

Add or Confirm Password

Enter your current password or create a new one.


* Password:

●●●●●●●●●●

* Confirm Password:


●●●●●●●●●●

What is a valid password?

 Great password!

Set security questions


* Security question 1:

What are the last 4 digits of your Social Security Nu 

* Type your answer:

1234

* Security question 2:

What city were you born in? 

* Type Your Answer:

piscataway

NOTE: From now on, please use the e-mail address you provided as the user name for your IEEE Account.

UPDATE

» Cancel

Set preferences with a Personal Account

IEEE Xplore[®]
DIGITAL LIBRARY

For Institutional Users:

IEEE

BROWSE

Books & eBooks

Conference
Publications

Education &
Learning

Journals &
Magazines

Standards

By Topic ▾

Collaborate with

The Members of IEEE

Join or Renew today ▶

QUICK LINKS

Manage Alerts

Training & Tools

IEEE Xplore Mobile

Search Options

Search History Recording:
 On
 Off

Publisher:

- All Content
- IEEE Content
- IET Content
- AIP Content
- AVS Content
- IBM Content
- VDE Content
- TUP Content
- BIAI Content

Search:

- Metadata Only
- Full Text & Metadata

Display Options for Search Results

Results Layout:

- Title Only
- Title & Citation (Default)
- Title, Citation & Abstract

Results per Page:

50 ▾

Sort By:

Relevance ▾

Download Options

Bibliographic Citation Format Include:

- Citation Only
- Citation & Abstract

Format:

- Plain Text
- BibTeX
- RefWorks
- EndNote, ProCite, RefMan

Email Setting Options

Email Address:

saws824@yahoo.com

This will only be used for receiving e-mail alerts from IEEE Xplore. Changing this will not affect the e-mail address associated with your IEEE Account.

Email Format:

- Plain Text
- HTML

Update

Cancel

Please Note: These preferences will only be applied when signed into IEEE Xplore with your personal username

▶ IEEE

Save documents to Project Folders

- “My Projects”
- Allows users to create personal project folders within IEEE Xplore
- Organize documents by project or topic.
- Save documents to an unlimited number of folders
- Personalize with project descriptions
- Add notes and tags to individual articles as you save them to projects.
- Sign in with your personal IEEE Account to access this feature.

Add to My Project (with IEEE Personal Account)

- The design of information security protection framework to support Smart Grid**
Tao Zhang ;
Congcong Sh
Power System
International
Digital Object
10.1109/POW
Publication Ye
Cited by 2
IEEE CONFE
| | | | |



Save to Project +Add New Project

Document Title
The design of information security protection framework to support Smart Grid

Project*
- Select Project -

Document Notes

Document Tags
Separate tags with a comma

Save Cancel

Access provided by:
IEL Demo User
 » Sign Out



BROWSE

- Books & eBooks
- Conference Publications
- Education & Learning
- Journals & Magazines
- Standards
- By Topic ▾**

QUICK LINKS

My Projects (14 Projects)

[Add New Project](#)

Sort by:

Bosch	Edit Delete
1 Documents · Created Jun. 5, 2013 9:36 AM EDT · Updated Jun. 5, 2013 9:37 AM EDT	
Description: Competitive intelligence	
Joe Nurre	Edit Delete
3 Documents · Created May. 15, 2013 1:09 PM EDT · Updated May. 15, 2013 1:18 PM EDT	
Description: IEEE Author	
HTML	Edit Delete
3 Documents · Created Oct. 12, 2012 8:50 AM EDT · Updated May. 8, 2013 10:23 AM EDT	
Description: multimedia NO cites	
Standards	Edit Delete
4 Documents · Created Mar. 26, 2013 9:20 AM EDT · Updated Mar. 26, 2013 10:45 AM EDT	
Description: All versions pertinent to my project	
kent	Edit Delete
0 Documents · Created Mar. 11, 2013 11:51 AM EDT · Updated Mar. 11, 2013 11:51 AM EDT	
Description: It is for a student	
Cyber*	Edit Delete
0 Documents · Created Feb. 16, 2013 9:18 AM EST · Updated Feb. 16, 2013 9:18 AM EST	
Description: Anything starting out with the word stem: cyber (cybersecurity; cyber security; cyberwarfare; cyber warfare)	
NEC	Edit Delete
0 Documents · Created Feb. 11, 2013 10:10 AM EST · Updated Feb. 11, 2013 10:10 AM EST	

Tsinghua Science and Technology
 Learn about achievements in computer science
[Subscribe Today ▶](#)

BROWSE BY TAGS

- Sort by:
- procter and gamble (3)
 - smart grid (3)
 - generators (2)
 - html (2)
 - power (2)
 - iptv (1)
 - mems (1)
 - wye grounded (1)
 - aberdeen (1)
 - cloud computing (1)
 - network (1)
 - edinburgh test (1)
 - tv (1)
 - purple (1)
 - rural (1)
 - book (1)
 - television (1)
 - overvoltage (1)
 - standard (1)
 - sensor (1)
 - software (1)
 - susan (1)
 - north carolina (1)



Features to Save IEEE Content

- **Download citation – build a bibliography**
- **Export Results – multi field CSV download. Limit of 2000 records**
- **Save to Project (IEEE Personal Account) – tagging, notes, unlimited project folders**
- **Saving a search/Set Alert (IEEE Personal Account) – search is run every Friday. Limit of 15 searches**

Quick self – paced tutorials

Magazines

IEEE Client Services

IEEE Client Services Menu

IEEE Client Services Home

IEEE Xplore Digital Library Training

Live Online Training

Self-Paced Tutorials
User Guides

Promote Your Subscription

Customer Tools

Getting Started Guide

Exhibits and Events

Useful Links

Frequently Asked Questions

IEEE Client Services Team

Manage Alerts

Training & Tools

IEEE Xplore Mobile

Your portal to IEEE Xplore® digital library subscription training and tools

IEEE Client Services provides training and promotional materials to institutions and individuals who subscribe to IEEE Xplore digital library subscription products.

Meet the Client Services team



IEEE Xplore Training

Sign up for a free webinar or view a self-paced tutorial.

- Live Online Training
- Self-Paced Tutorials
- User Guides



Promote Your Subscription

Access resources to help raise awareness and increase usage of IEEE Xplore.

- Marketing Materials
- Corporate Intranet Tools
- Library Web Site Tools



Exhibits & Events
Meet IEEE representatives at upcoming conferences and IEEE Xplore User Groups



Customer Tools

Find the resources and tools you need to manage your IEEE Xplore digital library subscription

» See all articles

On this Page:

- Spotlight on IEEE Xplore
- About IEEE Xplore content

View one of these 11 instant training modules for pointers on using IEEE Xplore. You will need [Adobe Flash Player 9](#) or above to view these training tutorials.

[Expand All](#) | [Collapse All](#)

Searching with IEEE Xplore
3:41 min.

Tutorials:

[ENGLISH](#) | [FRANÇAIS](#) | [PORTUGUÊS](#) | [ESPAÑOL](#) | [日本語](#) | [العربية](#) | [简体中文](#)

Transcripts (DOC, 68 KB):

[ENGLISH](#) | [FRANÇAIS](#) | [PORTUGUÊS](#) | [ESPAÑOL](#) | [日本語](#) | [العربية](#) | [简体中文](#) | [+](#)

Working with Results
2:45 min.

Tutorials:

[ENGLISH](#) | [FRANÇAIS](#) | [PORTUGUÊS](#) | [ESPAÑOL](#) | [日本語](#) | [العربية](#) | [简体中文](#)

Transcripts (DOC, 64 KB):

[ENGLISH](#) | [FRANÇAIS](#) | [PORTUGUÊS](#) | [ESPAÑOL](#) | [日本語](#) | [العربية](#) | [简体中文](#)

AbstractPlus
3:11 min.

Tutorials:

[ENGLISH](#) | [FRANÇAIS](#) | [PORTUGUÊS](#) | [ESPAÑOL](#) | [日本語](#) | [العربية](#) | [简体中文](#)

Transcripts (DOC, 64 KB):

[ENGLISH](#) | [FRANÇAIS](#) | [PORTUGUÊS](#) | [ESPAÑOL](#) | [日本語](#) | [العربية](#) | [简体中文](#) | [+](#)

Why Publish with IEEE?

Check my training dates on Twitter: @IEEE_elukacs



What helps build an author's credibility and career?

- Being published in a highly regarded, top quality publication
- Making your work easily findable
- Be cited by your peers

How do you increase your citations?

What is “visibility” and why is it so important to authors?

The screenshot displays the IEEE Xplore Digital Library search results page for the query "wireless sensor network". The page includes a search bar at the top, navigation tabs like "BROWSE" and "MY SETTINGS", and a "REFINE/EXPAND RESULTS" sidebar on the left. The sidebar shows filters for "Content Type" (Conferences, Journals, Early Access, Books, Standards, Educational Courses) and "Publication Year" (Single Year, Range). The main search results area shows the search query, "Results per Page" set to 25, and "Sort By" set to Relevance. A callout box highlights the search results section, showing the search query, "Results per Page" set to 25, and "Showing 1 - 25 of 40,165 results". The number "40,165" is circled in green. The callout box also shows the search results list, including the first result: "Mobile Network Supported Wireless Services" by Krco, S.; Tsiatsis, V.; Matusikova, K.; Johansson, R.; and Giltho, R., published in the "Mobile Adhoc and Sensor Systems, 2007. MASIS 2007. International Conference on" in 2007. The second result is "A study on sensor nodes attestation protocol in a Wireless Sensor Network" by Yong-Sik Choi; Young-Jun Jeon; Sang-Hyun Park; published in the "Advanced Communication Technology (ICACT), 2010 The 12th International Conference on" in 2010.

What else increases an IEEE author's visibility?

IEEE's relationships with indexing and abstracting providers



THOMSON REUTERS



ELSEVIER



Number of all IEEE publications from primary authors at Czech Technical University in Prague on IEEE Xplore

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
- A **conference article** can be written while research is ongoing
 - 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

Publish

IEEE journal or IEEE conference?

IEEE Journals



- IEEE journals are cited 3 times more often in patent applications than other leading publisher's journals



- A high percentage of articles submitted to any professional publication are rejected

IEEE Conferences

- IEEE Conference proceedings are recognized worldwide as the most vital collection of consolidated published articles in EE, computer science, related fields
- Per IEEE Guidelines, if you do not present your article at a conference, it may be suppressed in IEEE *Xplore* and not indexed in other databases

Publish

Finding the right IEEE publication or IEEE conference

IEEE has **151 unique publications** covering a wide range of technical areas

- Review the journal listings
 - Who reads it
 - What they publish
 - What kinds of articles they want

IEEE publishes **1,000+** leading-edge **conference proceedings** every year

- Review the conference calendar
 - Find a good match for your research subject matter
 - Ensure you are available to present

Audience

Audience

Basic Questions

1. Are you writing this paper for the sake of writing a paper?
2. Or do you want to make a difference in your technical community?

Audience

Scientific research publishing

- Who writes scientific papers?
 - Whoever solves a new and important problem in their field
 - Engineers, scientists, educators and researchers from:
 - Corporations
 - Academia
 - Government
 - Students typically write and present conference papers before submitting journal articles



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**

Structure

Paper Structure

Elements of a manuscript

Title

Abstract

Keywords

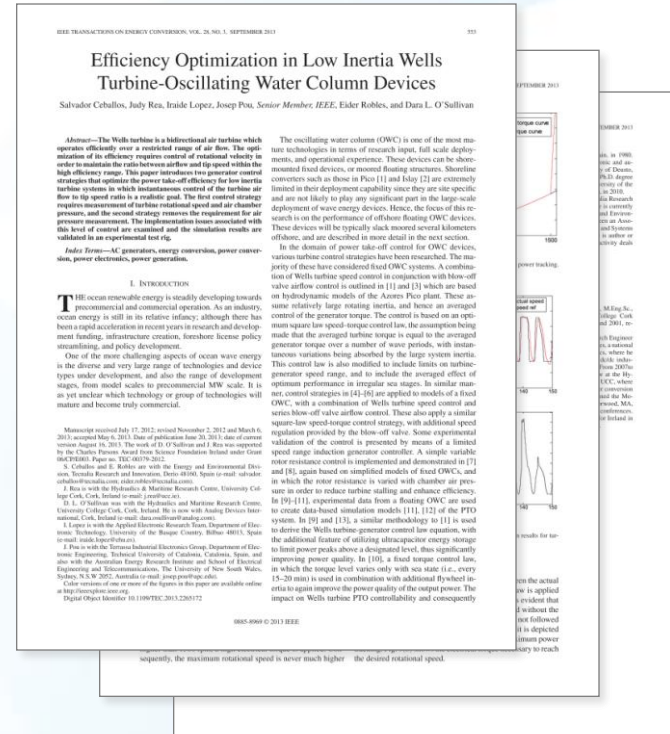
Introduction

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

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 it

What you did

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

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

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

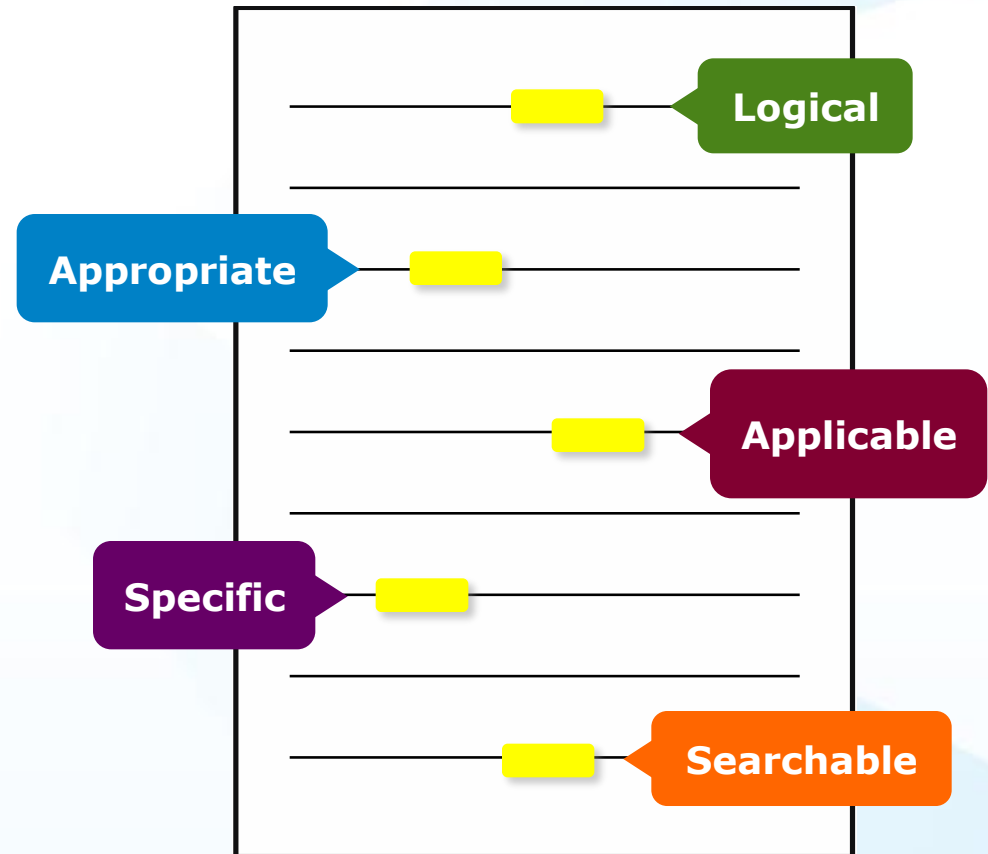
This paper presents and assesses a framework for an engineering capstone design program. **We explain** how student preparation, project selection, and instructor mentorship are the three key elements that must be addressed before the capstone experience is ready for the students. **Next, we describe**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



Paper Structure

Introduction

- A description of the problem you researched
- It should move step by step through:

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
 - Written in the present tense

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



Graphs

Show relationships between data points or trends in data



Figures

Quickly show ideas/conclusions that would require detailed explanations



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

Discussion

Results

the SC algorithm over the whole range of ω values increase to 3–4 K, except for the TIGR₁₊₁₁ database, with an RMSE of 2 K. This last result is explained by the ω distribution, which is biased toward low values of ω in this database. When only atmospheric profiles with ω values lower than $3 \text{ g} \cdot \text{cm}^{-2}$ are selected, the SC algorithm provides RMSEs around 1.5 K, with almost equal values of bias and standard deviation, around 1 K in both cases (with a negative bias, thus the SC underestimates the LST). In contrast, when only ω values higher than $3 \text{ g} \cdot \text{cm}^{-2}$ are considered, the SC algorithm provides RMSEs higher than 5 K. In these cases, it is preferable to calculate the atmospheric functions of the SC algorithm directly from (3) rather than approximating them by a polynomial fit approach as given by (4).

V. DISCUSSION AND CONCLUSION

The two Landsat-8 TIR bands allow the intercomparison of two LST retrieval methods based on different physical assumptions, such as the SC (only one TIR band required) algorithms (two TIR bands required). Direct inversion of the transfer equation, which can be considered the ground truth, is assumed to be a "ground-truth" condition that the information about the τ and L_s is accurate enough. The SC algorithm in this letter is a combination of the previous SC developed for Landsat-4 and Landsat-5 TM sensors, and the ETM+ sensor on board the Landsat-7 platform [9], and it could be used to generate consistent LST products from the historical Landsat data using a single algorithm. An advantage of the SC algorithm is that, apart from surface emissivity, only water vapor content is required as input. However, it is expected that errors on LST become unacceptable for high water vapor contents (e.g., $> 3 \text{ g} \cdot \text{cm}^{-2}$). This problem can be partly solved by computing the atmospheric functions directly from τ , L_s , and L_t values (see [5]), or also by including air temperature as input [15]. A main advantage of the SW algorithm is that it performs well over global conditions and, thus, a wide range of water vapor values; and that it only requires water vapor as input (apart from surface emissivity at the two TIR bands). However, the SW algorithm can be only applied to the new Landsat-8 TIRS data, since previous TM/ETM sensors only had one TIR band.

The LST algorithms presented in this letter were tested with simulated data sets obtained for a variety of global atmospheric conditions and surface emissivities. The results showed RMSE values of typically less than 1.5 K, although for the SC algorithm, this accuracy is only achieved for ω values below $3 \text{ g} \cdot \text{cm}^{-2}$. Algorithm testing also showed that the SW errors are lower than the SC errors for increasing water vapor, and vice versa, as demonstrated in the simulation study presented in Sobrino and Jimenez-Munoz [18]. Although an extensive validation exercise from *in situ* measurements is required to assess the performance of the two LST algorithms, the results obtained for the simulated data, the sensitivity analysis, as well as the previous findings for algorithms with the same mathematical structure give confidence in the algorithm accuracies estimated here.

REFERENCES

- [1] J. R. Jonas, J. L. Dwyer, and J. A. Rana, "The next Landsat satellite," *IEEE Geosci. Remote Sens. Lett.*, vol. 12, no. 12, pp. 2497–2500, Dec. 2015.
- [2] W. Kustas and M. Anderson, "Advances in thermal infrared remote sensing for land surface modeling," *Agric. For. Meteorol.*, vol. 149, no. 12, pp. 2073–2084, Dec. 2009.
- [3] M.-L. Li, R.-M. Tang, H. Wu, H. Ren, G. Yan, Z. Tian, J. F. Trigo, and J. A. Sobrino, "Satellite-derived land surface temperatures: Current status and perspectives," *Remote Sens. Environ.*, vol. 151, pp. 14–37, Apr. 2015.
- [4] Z.-L. Li, H. Wu, S. Wang, S. Qiu, J. A. Sobrino, Z. Tian, R.-M. Tang, and G. Yan, "Land surface emissivity retrieval from satellite data," *Int. J. Remote Sens.*, vol. 34, no. 9, pp. 2084–2107, 2013.
- [5] A. M. Mielke, "Three decades of Landsat instruments," *Photogramm. Eng. Remote Sens.*, vol. 63, no. 7, pp. 629–650, Jul. 1997.
- [6] J. A. Rana, J. R. Sobrino, D. Padouou, D. L. Haidle, S. J. Hook, R. L. Matlock, G. Chandler, and K. M. O'Donnell, "Landsat TM and ETM+ thermal band calibration," *Can. J. Remote Sens.*, vol. 29, no. 2, pp. 141–153, 2003.
- [7] J. C. Jiménez-Munoz, J. Cristóbal, J. A. Sobrino, G. Shua, M. Niyerwala, and X. Pons, "Revision of the single-channel algorithm for land surface temperature retrieval from Landsat thermal-infrared data," *IEEE Trans. Geosci. Remote Sens.*, vol. 47, no. 1, pp. 236–249, Jan. 2009.
- [8] L. M. Moshir, "Estimation of sea surface temperatures from two infrared window measurements with different absorption," *J. Geophys. Res.*, vol. 90, no. 24, pp. 5115–5117, 1974.
- [9] J. A. Sobrino, L.-L. Li, M. P. Stoll, and F. Becker, "Multi-channel and multi-angle algorithm for estimating air and land surface temperature with ASTER data," *Int. J. Remote Sens.*, vol. 17, no. 11, pp. 2089–2114, 1996.
- [10] J. C. Jiménez-Munoz and J. A. Sobrino, "Split-window coefficients for land surface temperature retrieval from low-resolution thermal infrared sensors," *IEEE Geosci. Remote Sens. Lett.*, vol. 5, no. 4, pp. 505–508, Oct. 2008.
- [11] A. Beck, G. P. Anderson, R. K. Adanya, J. H. Chelvan, L. S. Ramarath, E. F. Garcia, M. W. Mander, and S. M. Adler-Golden, MODTRAN User's Manual. Hanscom AFB, MA, USA: Air Force Res. Lab., 1999.
- [12] A. M. Kallmeyer, S. J. Hook, C. I. Good, and G. Rivera, "The ASTER spectral library version 2.0," *Remote Sens. Environ.*, vol. 115, no. 4, pp. 711–715, Apr. 2009.
- [13] J. Cristóbal, J. C. Jiménez-Munoz, J. A. Sobrino, M. Niyerwala, and X. Pons, "Improvements in land surface temperature retrieval from the Landsat aerial thermal band using water vapor and air temperature," *J. Geophys. Res.*, vol. 114, no. D6, p. D06107, 2009.
- [14] D. P. Cebal, K. M. Uppala, A. J. Simmons, P. Berrisford, F. Poli, S. Kobayashi, U. Andrae, M. A. Anthonis, G. Balzano, P. Bauer, R. Boshell, A. C. M. Bezzani, L. van de Kamp, J. Sijlt, M. Korzun, C. Daluot, R. C. Gergaud, M. Pasras, A. F. Gier, L. Hirsberger, S. E. Held, H. Herschler, E. V. Mijic, L. Andersen, P. Kallberg, M. Köhler, M. Montzard, A. P. McNally, E. M. Mingone-Sanz, J.-F. Morcrette, R.-K. Park, C. Peubey, R. de Rosnay, C. Simola, I.-K. Thériault, and F. Vitart, "The ERA-Interim reanalysis: Configuration and performance of the data assimilation system," *Q. J. R. Meteorol. Soc.*, vol. 137, no. 624, pp. 529–572, 2011.
- [15] C. Mätzler, C. Durillo-Alarcón, J. C. Jiménez-Munoz, and J. A. Sobrino, "Global Atmospheric Profiles from Reanalysis Information (GAPRI): A new database for forward simulations in the thermal infrared region," *IEEE Trans. Geosci. Remote Sens.*, 2014, submitted for publication.
- [16] J. A. Sobrino and J. C. Jiménez-Munoz, "Land surface temperature retrieval from thermal infrared data: An assessment in the context of the surface processes and energy balance of a semi-arid region (SECTRA) station," *J. Geophys. Res.*, vol. 116, no. D16, p. D16102, 2005.

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
- 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

Properly cited material

1538 IEEE TRANSACTIONS ON SMART GRID, VOL. 5, NO. 4, JULY 2014

We then have

$$\begin{aligned} (P_1^{h+} + P_1^{h-})^2 &= (P_1^{h+} - P_1^{h-})^2 + 4P_1^{h+}P_1^{h-} \\ &< (\hat{P}_1^{h+} - \hat{P}_1^{h-})^2 + 4\hat{P}_1^{h+}\hat{P}_1^{h-} \\ &= (\hat{P}_1^{h+} + \hat{P}_1^{h-})^2 \end{aligned} \quad (32)$$

Since $P_1^{h+} - P_1^{h-} = \hat{P}_1^{h+} - \hat{P}_1^{h-}$, we then have $P_1^{h+} < P_1^{h+}$, and $P_1^{h-} < P_1^{h-}$. Because the operational cost is an increasing function of $\{P_1^{h+}, P_1^{h-}\}$, we obtain that

$$c_{0/1}(P_1^{h+}, P_1^{h-}) < c_{0/1}(\hat{P}_1^{h+}, \hat{P}_1^{h-}). \quad (33)$$

Therefore the optimal pair $\{P_1^{h+}, P_1^{h-}\}$ must satisfy that $P_1^{h+}P_1^{h-} = 0$, i.e., only one of P_1^{h+}, P_1^{h-} can be non-zero. ■

REFERENCES

- [1] "Renewable: Energy You Can Count on," Tech. Rep. Union of Concerned Scientists, 2013.
- [2] S. Collier, "Ten steps to a smarter grid," *IEEE Ind. Appl. Mag.*, vol. 16, no. 2, pp. 62-68, 2010.
- [3] J. A. Turner, "A realistic renewable energy future," *Sci.*, vol. 283, no. 5428, pp. 687-689, 1999.
- [4] "Exploration of High-Penetration Renewable Electricity Futures," Tech. Rep. National Renewable Energy Lab., 2012.
- [5] T. Wiedmann and J. Minx, *A Definition of 'Carbon Footprint'*. Harpenden, NY, USA: Nova Science, 2008.
- [6] J. Carrasco, L. Franquelo, J. Dolasiewicz, E. Galver, R. Guisado, M. Prato, J. Leon, and M. Murolo-Alfonso, "Power-electronic systems for the grid integration of renewable energy sources: A survey," *IEEE Trans. Ind. Electron.*, vol. 53, no. 4, pp. 1002-1016, 2006.
- [7] H. Ibrahim, A. Ilinca, and J. Perron, "Energy storage systems - characteristics and comparison," *Renewable Sustainable Energy Rev.*, vol. 12, no. 3, pp. 1221-1250, 2008.
- [8] J. Garcia-Gonzalez, R. de la Muela, I. Sanja, and A. Gonzalez, "Stochastic joint optimization of wind generation and pumped-storage units in an electricity market," *IEEE Trans. Power Syst.*, vol. 23, no. 2, pp. 460-468, 2008.
- [9] T. D. Nguyen, K.-J. Yung, S. Zhang, and T. D. Nguyen, "On the modeling and control of a novel hybrid energy storage system," in *Proc. IEEE*, 2010, pp. 1395-1401.
- [10] D. Xu, Y. Huanchuan, D. Xu, T. Siew, and A. Khabbazi, "Energy storage systems involving battery and ultracapacitor for microgrid applications," *IEEE Trans. Electron.*, vol. 26, no. 3, pp. 923-930, 2011.
- [11] C. F. Miller, "Key challenges and recent progress in fuel cells, fuel cells, and hydrogen storage for clean energy systems," *Power Sources*, vol. 159, no. 1, pp. 73-80, 2006.
- [12] C. Abbey and G. Joos, "Supercapacitor energy storage for wind energy applications," *IEEE Trans. Ind. Appl.*, vol. 43, no. 3, pp. 769-776, 2007.
- [13] P. Brown, J. P. Lopes, and M. Marnett, "Optimization of pumped storage capacity in an island power system with large renewable penetration," *IEEE Trans. Power Syst.*, vol. 23, no. 2, pp. 523-531, 2008.
- [14] C. Abbey and G. Joos, "A stochastic optimization approach to rating of energy storage systems in wind-diesel isolated grids," *IEEE Trans. Power Syst.*, vol. 24, no. 1, pp. 418-426, 2009.
- [15] Y. Zhang, M. Gatsis, and G. Giannakis, "Robust energy management for microgrids with high-penetration renewables," *IEEE Trans. Sustainable Energy*, vol. PP, no. 99, pp. 1-10, 2013.
- [16] S. Boyd, N. Parikh, B. Chu, B. Peleato, and J. Eckstein, "Distributed optimization and statistical learning via the alternating direction method of multipliers," *Foundations Trends Mach. Learning*, vol. 3, no. 1, pp. 1-122, 2010.
- [17] G. Calaforo and M. Campi, "The scenario approach to robust control design," *IEEE Trans. Automat. Contr.*, vol. 51, no. 5, pp. 742-753, 2006.
- [18] A. Shapiro, D. Dentcheva, and A. Ruszczyński, *Lectures on Stochastic Programming: Modeling and Theory*. Philadelphia, NJ, USA: SIAM, 2009.
- [19] Y. Zhang, N. Gatsis, and G. Giannakis, "Risk-constrained energy management with multiple wind farms," in *Proc. IEEE PES Smart Grid*, Feb. 2013, pp. 1-6.
- [20] Y. Zhang, N. Gatsis, and G. Giannakis, "Risk-aware management of distributed energy resources," in *Proc. Int. Conf. Digital Signal Process.*, Jul. 2013, pp. 1-5.
- [21] P. Yang and A. Nehorai, "Hybrid energy storage and generation planning with large renewable penetration," in *IEEE Int. Workshop Computat. Adv. Multi-Sensor Adaptive Process.*, Dec. 2013, pp. 1-4.
- [22] EPRI, "Electricity Energy Storage Technology Option: A White Paper Primer on Applications, Costs, and Benefits," Tech. Rep. EPRI, Palo Alto, CA, USA, 2010.
- [23] National Solar Radiation Data Base, [Online]. Available: http://rtdc.nrel.gov/solar/old_data.html
- [24] S. Wilcox, *National Solar Radiation Database 1991 - 2010 Update: User's Manual*, 2012.
- [25] EPRI, "Renewable Energy Technical Assessment Guide - TAG-RE-2008," Tech. Rep. EPRI, Palo Alto, CA, USA, 2007.
- [26] *NERCOT Hourly Load Data Archive* [Online]. Available: http://www.ercot.com/gridinfo/loadload_hist
- [27] M. Grant and S. Boyd, *CVX: Matlab Software for Disciplined Convex Programming*, Version 2.0 Beta 2012 [Online]. Available: <http://cvxr.com/cvx>
- [28] "MISO Daily Report," 2011, Electric Power Market Midwest (MISO), FERC [Online]. Available: <http://www.ferc.gov/markets-overnight/mid-electric/midwest-miso-archives.asp>
- [29] "CAISO Daily Report," 2011, Electric Power Market California (CAISO), FERC [Online]. Available: <http://www.ferc.gov/markets-overnight/mid-electric/california-caiso-archives.asp>



Peng Yang (S'11) received the B.Sc. degree in electrical engineering from University of Science and Technology, Anhui, China in 2009, and the M.Sc. and Ph.D. degrees in electrical engineering from Washington University in St. Louis, St. Louis, MO, USA, in 2011 and 2014, respectively. His Ph.D. advisor is Dr. Arne Nehorai. His research interests include statistical signal processing, optimization, machine learning, and compressive sensing, with applications to smart grids.



Arne Nehorai (S'60-M'63-SM'90-F'94) received the B.Sc. and M.Sc. degrees from the Technion, Haifa, Israel, and the Ph.D. degree from Stanford University, Stanford, CA, USA. He is the Eugene and Martha Lohman Professor and Chair of the Preston M. Green Department of Electrical and Systems Engineering (ESE) at Washington University in St. Louis (WUSTL), St. Louis, MO, USA. Earlier, he was a faculty member at Yale University and the University of Illinois at Chicago. Dr. Nehorai served as Editor-in-Chief of IEEE TRANSACTIONS ON SIGNAL PROCESSING from 2000 to 2002. From 2003 to 2005 he was the Vice President of the IEEE Signal Processing Society (SPS), the Chair of the Publications Board, and a member of the Executive Committee of this Society. He was the Founding Editor of the special columns on Leadership Reflections in *IEEE Signal Processing Magazine* from 2003 to 2006. He has been a Fellow of the IEEE since 1994, the Royal Statistical Society since 1996, and the AAAS since 2012.

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

Plagiarism

- Avoid plagiarism
 - Cite and separate any verbatim copied material
 - Paraphrase reused text properly, and include citation
 - Credit any reused ideas
 - Familiarize yourself with IEEE Policies



Refer to our Tips Sheet
http://www.ieee.org/publications_standards/publications/authors/plagiarism_and_multiple_submissions.pdf

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
http://www.ieee.org/publications_standards/publications/authors/plagiarism_and_multiple_submissions.pdf

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)

Open Access Publications

IEEE also makes available various types of open access publications

IEEE Open Access

Hybrid Journals

Subscription-based and Open Access

Mega Journal

Multidisciplinary Open Access

Fully Open Access Journals

Devoted to One Technology Topic

Link: <http://open.ieee.org>

How IEEE Access can work for you

IEEE Access makes it easy for practitioners, researchers, institutions, funding agencies, and others to make published information available to everyone.

> [View a video about IEEE Access](#)

IEEE Access[®]
The **journal** for rapid **open access** publishing



[View video](#)



[About IEEE](#)[Membership & Services](#)[Societies & Communities](#)[Publications & Standards](#)[Conferences & Events](#)[Education & Careers](#)[Search IEEE](#)[Search](#)[Follow](#)

[Home](#) > [Memberships & Services](#) > [Memberships & Subscriptions Catalog](#) > [Subscriptions](#) > [Power and Energy Technology Systems Journal](#)

Memberships and Subscriptions Catalog

[Browse](#) ▾

Power and Energy Technology Systems Journal, IEEE

IEEE Power and Energy Systems Technologies Journal is intended to be a technical journal containing practice-oriented articles focusing on the development, planning, design, construction, maintenance, installation and operation of equipment, structures, materials and power systems for the safe, sustainable, economic and reliable conversion, generation, transmission, distribution, storage and usage of electric energy, including its measurement and control.

Product No: ONL289

**NEW
FOR
2014**

[View list of sponsoring societies](#)

IEEE open access publications are available electronically at no cost.

3 OA Models for Different Author Needs

Option	When	Why
Fully Open Access Topical Journals (4 so far)	Began publishing in 2012	Larger potential audience with traditional focus on specific areas
Hybrid Topical Journals (ultimately 100+)	Already an option	Gives authors the benefit of multiple journals w/established Impact Factors; publish in print and online
IEEE Access™	May 2013	Broad-scope, multi-disciplinary journal featuring practical applications and a rapid, binary peer-review process
All articles available through IEEE <i>Xplore</i> Digital Library		

Fully Open Access Topical Journals

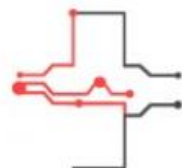


IEEE Transactions on Emerging
Topics in Computing

Photonics Journal
An IEEE Photonics Society Publication



IEEE Journal of
Electron Devices
Society



IEEE Journal of Translational
Engineering in
Health and Medicine

Editors in Chief



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



Carmen S. Menoni,
*IEEE Photonics
Journal*



Renuka P. Jindal,
*IEEE Journal of
Electron Devices
Society*



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

Choose

Find OA periodicals in IEEE Xplore®

Find details on each IEEE OA periodical's homepage →

The screenshot shows the journal page for 'Power Electronics, IEEE Transactions on'. It features a navigation bar with tabs for 'Popular', 'Early Access', 'Current Issue', 'Past Issues', and 'About Journal', along with a 'Submit Your Manuscript' button. A central box provides a brief description of the journal's focus on fundamental technologies in power electronics. To the right, three key metrics are displayed: an Impact Factor of 4.65, an Eigenfactor of 0.02524, and an Article Influence Score of 0.983. Below these are sections for 'Recently Published Articles' and 'Popular Articles'. The 'Recently Published Articles' section lists two papers: 'Novel Three-Phase Three-Level-Stacked Neutral Point Clamped Grid-Tied Solar Inverter With a Split Phase Controller' (Dec-10 2012) by Yong Wang and Fei Wang, and 'Simplified Feedback Linearization Control of Three-Phase Photovoltaic Inverter With an LCL Filter' (Dec-10 2012). The 'Popular Articles' section lists 'Design and Control of a Grid-Connected Interleaved Inverter' (Sep-27 2012) by Abusara, M.A. and Sharkh, S.M., and 'High-Efficiency Single-Input Multiple-Output DC-DC Converter' (Sep-28 2012) by Rong-Jong Wai and Kun-Huai Jheng.

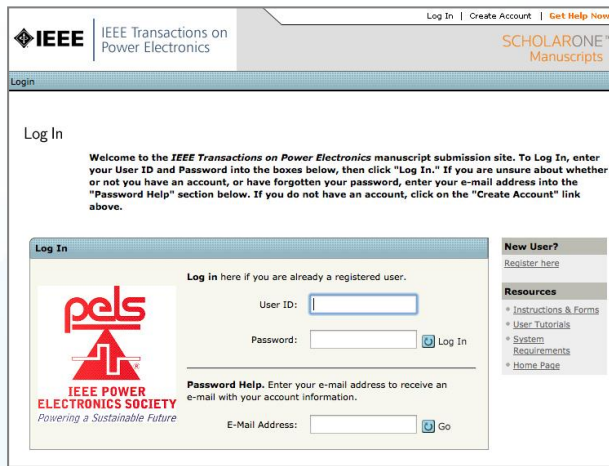
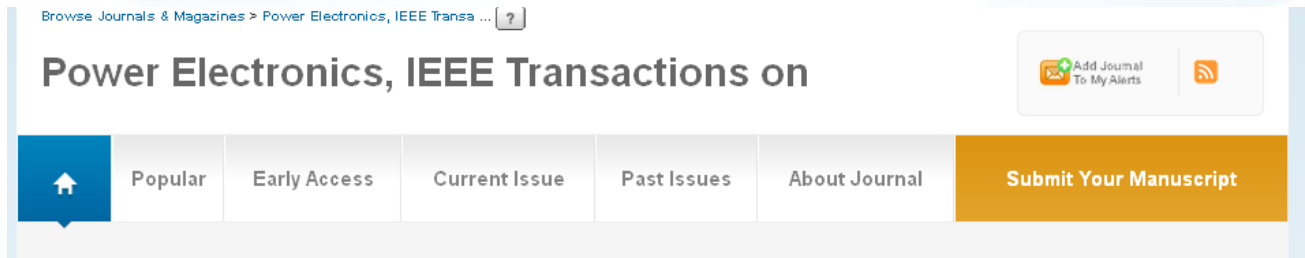


Check my training dates on Twitter: @IEEE_elukacs



Submit

Submission button is easily identified in IEEE Xplore



Click "Submit a Manuscript"

Follow the prompts to set up an account



ATTENTION: THIS PUBLICATION IS A HYBRID JOURNAL ALLOWING EITHER:

- Traditional manuscript submission
- **NEW** Open Access (author-pays OA) manuscript submission at the discounted rate of \$1,750 per article

The OA option, if selected, enables unrestricted public access to the article via IEEE Xplore. The OA option will be offered to the author at the time the manuscript is submitted. If selected, the OA fee must be paid before the article is published in the journal. If you have unusual circumstances about this, please contact the Editor-in-Chief.

The traditional option, if selected, enables access to all qualified subscribers and purchasers via IEEE Xplore. No OA payment is required.

The IEEE peer review standard of excellence is applied consistently to all submissions. All accepted articles will be included in the print issue mailed to subscribers.

OA options and APCs are prominent



My Manuscripts	Author Resources
<ul style="list-style-type: none">1 Unsubmitted Manuscripts0 Resubmitted Manuscripts in Draft0 Revised Manuscripts in Draft0 Submitted Manuscripts0 Manuscripts with Decisions0 Manuscripts I Have Co-Authored0 Withdrawn Manuscripts0 Awaiting Final Files0 Invited Manuscripts	<p> Click here to submit a new manuscript</p> <p>This section lists the subjects of the five most recent e-mails that have been sent to you regarding your submission(s). To view an e-mail, click on the link. To delete an e-mail from this list, click the delete link.</p>

Authors Are Guided Through The Simple Process

Author Center Submit a Manuscript

Select your manuscript type. Enter your title, running head, and abstract into the appropriate boxes below. If you need to insert a special character, click the "Special Characters" button. When you are finished, click "Save and Continue." [Read More ...](#)

- 1 [Type, Title, & Abstract](#)
- 2 [Attributes](#)
- ✓ 3 [Authors & Institutions](#)
- 4 [Details & Comments](#)
- 5 [File Upload](#)
- 6 [Review & Submit](#)

▶ Save and Continue

Manuscript Type

req Suggested Category:

req **Title** (Limit 500 characters)

Press Control-V (or Cmd-V) to Paste

req **Abstract** (Limit 500 words)

Open Access

req This publication is a hybrid journal, allowing either traditional manuscript submission or Open Access (author-pays OA) manuscript submission. By selecting "yes" to the below Open Access question, you commit to pay the discounted \$1,750 OA fee if your manuscript is accepted for publication in order to enable unrestricted public access.

Any other applicable charges (such as over-length paper charges or a charge for the use of color in print format), will be billed separately once the manuscript formatting is complete but prior to publication. Over-length paper charge details can be found [here](#).

If you select traditional submission, your article will be available to all qualified subscribers and purchasers via IEEE Xplore. No OA payment is required for traditional submission.

For any questions regarding IEEE's Open Access policy, please refer to our [Frequently Asked Questions on Open Access](#).



Yes - please make my article Open Access. I will pay the \$1,750 fee, as well as any other applicable charges.



No - my article is a traditional submission. Only over-length paper charges or color charges will apply, if applicable.

Author Center Submit a Manuscript

Enter or paste your cover letter text into the "Cover Letter" box below. If you would like to attach a file containing your cover letter, click the "Browse..." button, locate your file, and click "Attach this Cover Letter." Answer any remaining questions appropriately. When you are finished, click "Save and Continue."

- 1 [Type, Title, & Abstract](#)
- 2 [Attributes](#)
- 3 [Authors & Institutions](#)
- 4 [Details & Comments](#)
- 5 [File Upload](#)
- 6 [Review & Submit](#)

Save and Go Back Save and Continue

Cover Letter

Attach another file containing your cover letter: **Files attached**

No file chosen

File Name	Delete
No Files Attached	

Manuscript Topic

req Please choose a topic from the list:

Comments to Editor

Enter any comments to the Editor in the box to the right.

Check my training dates on Twitter: @IEEE_elukacs

Requests for CC BY, waivers, and other editor queries can be submitted here

Review

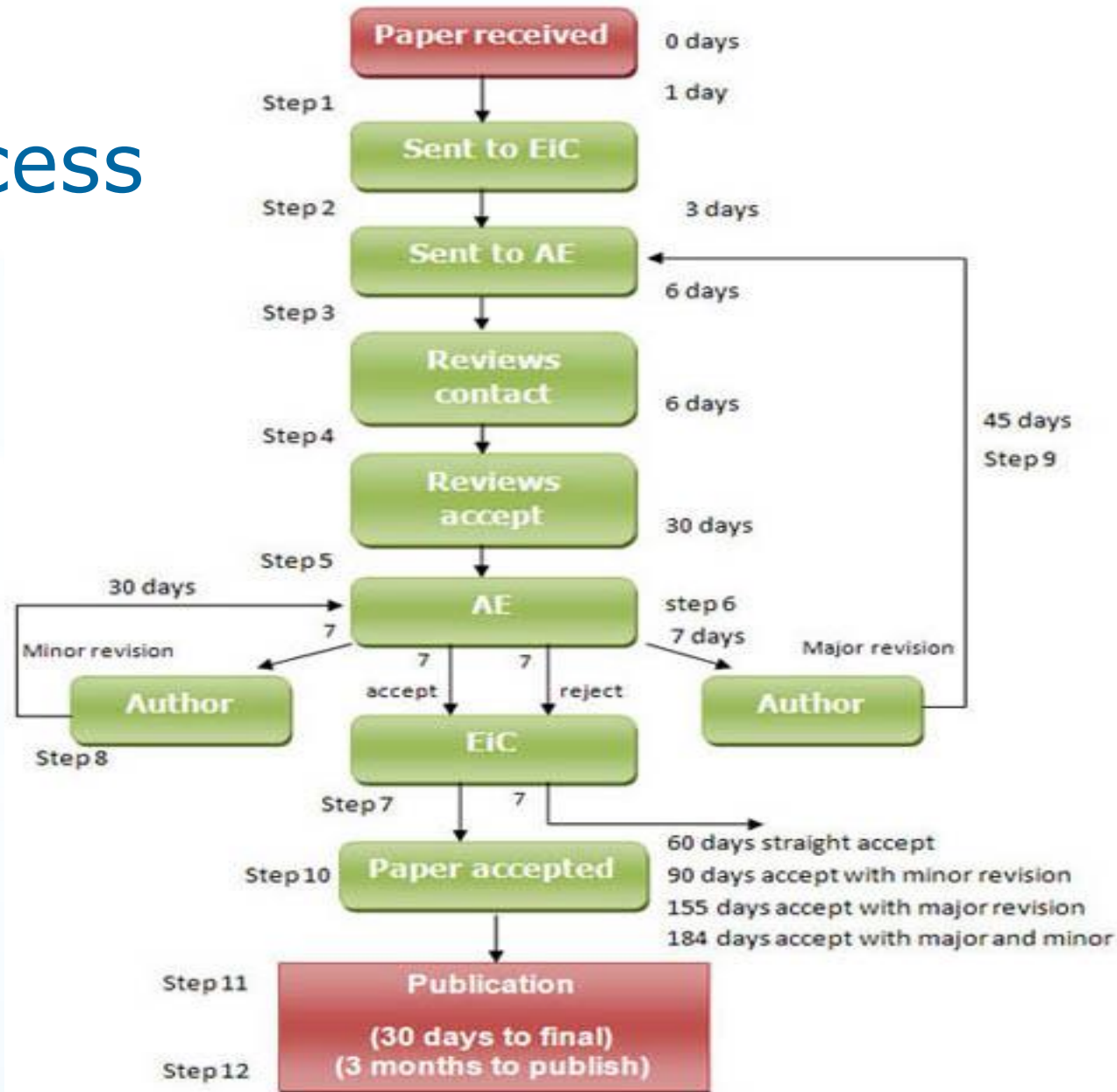
The Review Process

1. Paper received
2. Sent to Editor-in-Chief
3. Assigned to Associate Editor
4. Reviewers contacted
5. Reviewers accept task
6. When the reviews are received, the Associate Editor makes a recommendation to the Editor-in-Chief
7. Editor-in-Chief makes final decision

The steps in this review process vary by publication.



Review Review Process



e.g. IEEE
Transactions on
Information
Technology in
Biomedicine

Review

Possible review decisions

- **ACCEPT:** Congratulations! The paper now is entered into a production process.
- **ACCEPT WITH MINOR CORRECTIONS:** One or more of the referees have made suggestions for improvement.
- **RESUBMIT:** The paper has major deficiencies that could be repaired by the author.
- **REJECT:** If you have a rejection from a top publication, you can try submitting the paper to a less-selective publication.



Author Processing

Once accepted...

- Bills are sent to the author, if open access.
- Article production is initiated.
- Articles are posted online and included in the print version, if available.



Check my training dates on Twitter: @IEEE_elukacs

Useful articles on IEEE Xplore

- **"Beginnings and endings: keys to better engineering technical writing"** Pierson, M.M.; Pierson, B.L.,
- **"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>

IEEE Author tool box

www.ieee.org/go/authorship

- Download the **“How to Write for Technical Periodicals and Conferences”** manuscript
- View the IEEE’s presentation on “Benefits of Publishing”
- View the IEEE’s presentation on “How to publish with IEEE”
- View Copyright videos
- Find the right Journal
- Access the IEEE Author Digital Toolbox
- View Frequently Asked Questions (FAQs)

IEEE Author tool box

www.ieee.org/go/authorship

Author Digital Tool Box

♦ IEEE Publications Menu

[Publications Home](#)

[Publications News](#)

▣ Publication Types

▣ Publishing Tools & Services

▣ Reprints, Rights & Permissions

[Advertising in IEEE Publications](#)

▣ Publications Board

▣ Author Resources

[Contact IEEE Publishing](#)

[Author FAQs](#)



The IEEE Author Digital Toolbox contains tools and information to assist with article preparation and submission, the article proof review process, and ordering reprints. Also included is a list of frequently asked questions.

On this Page:

- [Preparing your article](#)
- [Preparing your graphics or multimedia materials](#)
- [Guidelines for article submission](#)
- [Post-acceptance procedures](#)
- [Post-publication procedures](#)
- [Frequently asked questions](#)

♦ Preparing your article

▸ [IEEE Style Manual](#)
(PDF, 132 KB)

A manual outlining editorial guidelines for IEEE Transactions, Journals, and Letters.

▸ [IEEE Abbreviations for IEEE Transactions, Journals, Letters, and Magazines](#)
(PDF, 728 KB)

A catalog of IEEE's titles, including historic publications, along with their official reference abbreviations, and acronyms.

▸ [Keywords Suggested for Authors](#)

Check my tracking words on suggested for authors

Authorship

- [View benefits of publishing with IEEE](#)

IEEE Open Access

IEEE Open Access delivers articles free of charge to readers worldwide.

- [Learn about IEEE Open Access](#)

Which journal would be right for my research?

- [View a complete listing of IEEE periodicals](#)

Article Templates

- [Find the appropriate template for the publication you intend on publishing in](#)

Author copyright help

- [IEEE Rights & Permissions Department](#)
- [Download the IEEE Copyright Form \(PDF, 108 KB\)](#)

Publishing with IEEE Conferences

Each IEEE sponsored conference has its own requirements for publishing.

For complete information, see the Call for Papers for the conference in question.

To search for a specific conference, go to the main Conferences & Events page on www.ieee.org

Home > Conferences & Events > Conference Details

2012 IEEE Vehicle Power and Propulsion Conference (VPPC)

Sponsored by:

- Power Electronics Society - PEL
- Vehicular Technology Society - VT

Topic 1: HEV, BEV, FCEV and Plug-In EV System Design. Topic 2: Automotive Actuator and Electric Machinery Topic 3: Power Converter for Automotive Applications Topic 4: Motor Drives for Vehicle Applications Topic 5: Energy and Power Management Topic 6: Power Electronics for Vehicle Couplers Topic 7: Smart Grid and Electrical Infrastructure Topic 8: Power Electronics for V2V (V2V) Topic 9: Telematics (included V2I) Topic 10: Power Electronics for V2V (V2V)

Call for Papers for Conference Authors

Find details for paper and abstract submission.
▶ [Search for call for papers on conference site](#)

Conference Details

Dates	09 Oct - 12 Oct 2012
Location	Seoul Olympic Parktel Seoul, Korea (South)
Web site	▶ www.vppc2012.org
Contact	Min Jung Kim Room 901, Science & Technology Building, 635-4, Yucksam-Dong, Kangnam-Ku Korea (South) Seoul 135-703 +82 70 8222 3371 +82 10 9156 3571 +82 2 3412 8723 (fax) secretariat@vppc2012.org
Conference #	20159
Attendance	450

Please see the [conference Web site](#) for full details.

Call for Papers for Conference Authors
Find details for paper and abstract submission.
▶ [Search for call for papers on conference site](#)

Conference Focus

- Application
- Science

Features

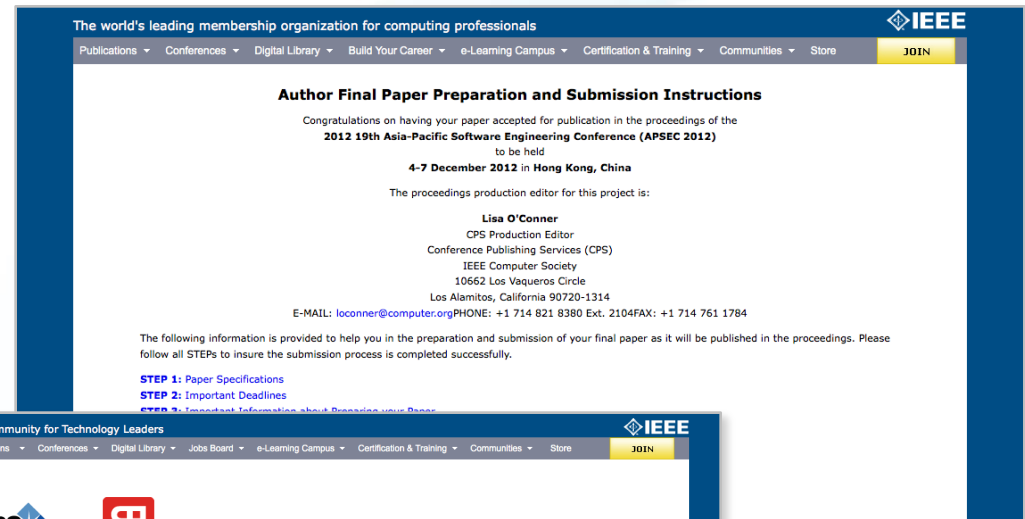
- Exhibits
- Tutorials

▶ [Back to search results](#)

Author final paper preparation and submission instructions

If your paper is accepted to an IEEE sponsored conference, you will receive final submission instructions.

For general information for authors, go to the conference sponsor's information page.



The world's leading membership organization for computing professionals

Publications ▾ Conferences ▾ Digital Library ▾ Build Your Career ▾ e-Learning Campus ▾ Certification & Training ▾ Communities ▾ Store **JOIN**

Author Final Paper Preparation and Submission Instructions

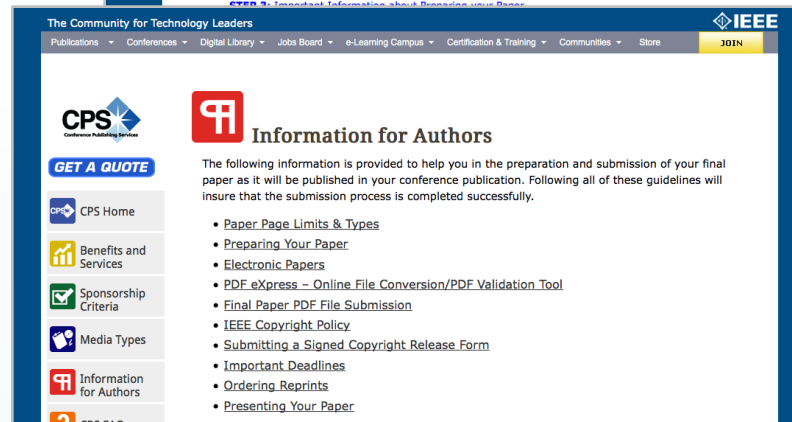
Congratulations on having your paper accepted for publication in the proceedings of the **2012 19th Asia-Pacific Software Engineering Conference (APSEC 2012)** to be held **4-7 December 2012 in Hong Kong, China**

The proceedings production editor for this project is:

Lisa O'Conner
CPS Production Editor
Conference Publishing Services (CPS)
IEEE Computer Society
10662 Los Vaqueros Circle
Los Alamitos, California 90720-1314
E-MAIL: loconner@computer.org PHONE: +1 714 821 8380 Ext. 2104 FAX: +1 714 761 1784

The following information is provided to help you in the preparation and submission of your final paper as it will be published in the proceedings. Please follow all STEPs to insure the submission process is completed successfully.

[STEP 1: Paper Specifications](#)
[STEP 2: Important Deadlines](#)
[STEP 3: Important Information about Deadlines and Dates](#)



The Community for Technology Leaders

Publications ▾ Conferences ▾ Digital Library ▾ Jobs Board ▾ e-Learning Campus ▾ Certification & Training ▾ Communities ▾ Store **JOIN**

CPS
Conference Publishing Services

Information for Authors

The following information is provided to help you in the preparation and submission of your final paper as it will be published in your conference publication. Following all of these guidelines will insure that the submission process is completed successfully.

- [Paper Page Limits & Types](#)
- [Preparing Your Paper](#)
- [Electronic Papers](#)
- [PDF eXpress – Online File Conversion/PDF Validation Tool](#)
- [Final Paper PDF File Submission](#)
- [IEEE Copyright Policy](#)
- [Submitting a Signed Copyright Release Form](#)
- [Important Deadlines](#)
- [Ordering Reprints](#)
- [Presenting Your Paper](#)

Key sites to remember

IEEE Author Tools

http://www.ieee.org/publications_standards/publications/authors/author_tools.html

IEEE Conference Search and Calls for Papers:

http://www.ieee.org/conferences_events/index.html

IEEE Xplore: <http://ieeexplore.ieee.org>

IEEE Xplore information, training and tools:

<http://www.ieee.org/go/clientservices>

IEEE Journal Citation reports:

http://www.ieee.org/publications_standards/publications/journmag/journalcitations.html

THANK YOU!

Eszter Lukács

IEEE Client Services Manager - Europe

e.lukacs@ieee.org

- ❖ Web: www.ieee.org/go/clientservices
- ❖ Check my training dates on Twitter: [@IEEE_elukacs](https://twitter.com/IEEE_elukacs)
- ❖ +49 30 44319367 Office in Berlin
- ❖ +49 1705632738 Mobile

