## IEEE网络课堂之二:

## 科技论文写作

IEEE

2016年

本讲内容参考2014/2015/2016 IEEE 作者研讨会的IEEE Fellow演讲报告



## 2016下半年网络课堂系列

#### WebEx网络培训安排与登录链接 (注意: Webex网络培训时间统一定为周五下午2:30-3:30)

—(a)	— (b)	二 (a)	_ (b)	_ (c)	四	五	六
Webex <b>网络培训时间统一定为周五</b> 下午2:30-3:30							
9月23日 注册	9月30日 注册	11月11号 注册	11月25号 注册	12月16日 注册	12月23日 注册	11月4日 注册	9月9日 注册
10月21日 注册	10月28日 注册						
11月18号 注册	12月2日 注册						
12月9日 注册							

## 培训要点

- 出版渠道选择
- 拒稿常见原因
- 科技论文结构



## About the IEEE 关于IEEE

- World's largest technical membership association with over 430,000 members in over 160 countries
- 世界最大的技术学会,在全球160多个国家拥有43万多会员
- Not for profit organization dedicated to "Advancing"

Technology For Humanity"

- 非盈利组织,致力于为人类谋福祉
- Four Core areas of activity
- 核心业务领域
  - Membership organization
  - Conferences organizer
  - Standards developer
  - Leading Publisher





## Choices 选择



# Publish IEEE journal or IEEE conference? 发表IEEE期刊或会议?

- A **journal article** is a fully developed presentation of your work and its final findings 期刊文章是研究工作和最终结果的完整展示
  - · Original research results presented 展示原创研究结果
  - Clear conclusions are made and supported by the data 做出清晰推论,并辅以数据 支持
- A conference article can be written while research is ongoing 会议
   文章可以是正在进行没有完成的研究
  - · Can present preliminary results or highlight recent work 可展示初期成果或强调最近工作
  - · Gain informal feedback to use in your research 获得非正式反馈用于后续研究
- Conference articles are typically shorter than journal articles, with less detail and fewer references 会议论文通常短于期刊论文,细节和参 考文献也少些



# Publish IEEE journal or IEEE conference? 发表IEEE期刊或会议?

#### **IEEE Journals**



• IEEE journals are cited 3 times more often in patent applications than other leading publisher's journals IEEE期刊被引次数高

## A high percentage of articles submitted to any professional publication are rejected 投稿期刊被拒机率高

### **IEEE Conferences**

- IEEE Conference proceedings are recognized worldwide as the most vital collection of consolidated published articles in EE, computer science, related fields IEEE会议论文是全球电子电气计算机方向最重要内容
- Per IEEE Policy, if you do not present your article at a conference, it may be suppressed in IEEE Xplore and not indexed in other databases

作者须现场展示论文后,文章才能 令 收入IEEE Xplore

for Humanity

CON 缺点

# Publish Finding the right IEEE publication or IEEE conference 选择合适的IEEE期刊或会议

IEEE has **180 unique publications** covering a wide range of technical areas

180多种IEEE期刊

- · Review the journal listings 浏览期刊列表
  - Who reads it 受众
  - What they publish 内容
  - What kinds of articles they want 期待文章类型

IEEE publishes **1,500+** leading-edge **conference proceedings** every year

每年1500多场IEEE前沿会议

- Review the conference calendar 浏览会议列表
  - · Find a good match for your research subject matter 寻找与研究方向吻合的会议
  - Ensure you are available to present 确保你可以出席会议

# Audience Audience



## Audience Basic Questions 基本问题

Are you writing this paper for the sake of writing a paper? 你是为了写论文而写论文?

Or do you want to make a difference in your technical community? 还是想在某个技术群体中做出贡献?



## Scientific research publishing 科学研究出版

- Who writes scientific papers? 谁在撰写科技文章
  - Whoever solves a new and important problem in their field 在各自领域解决全新重要问题的研究者
  - Engineers, scientists, educators and researchers from: 来自不同机构 的工程师、科学家和教育者
    - Corporations
    - > Academia
    - Government
  - · Students typically write and present conference papers before submitting journal articles 学生在发表期刊论文前通常先发表会议论文



## What IEEE editors and reviewers are looking for IEEE编辑和评审人在寻找什么

- Content that is appropriate, in scope and level, for the journal 内容符合期刊收录范围
- Clearly written original material that addresses a new and important problem 清晰表达的原创研究,解决全新重要问题
- Valid methods and rationale 有效的方法
- Conclusions that make sense 有意义的结论
- Illustrations, tables and graphs that support the text 图表图像有力支持文字描述
- References that are current and relevant to the subject 能反映最近研究进展的相关参考文献



## Why IEEE editors and reviewers reject papers IEEE编辑和评审人拒稿原因

- The content is not a good fit for the publication 内容不适合该期刊
- There are serious scientific flaws: 严重的科学缺陷
  - · Inconclusive results or incorrect interpretation 无法信服的结果或不正确的解释
  - Fraudulent research 学术造假
- It is poorly written 文笔差
- It does not address a big enough problem or advance the scientific field没有解决重大问题或提升当前科技水平
- The work was previously published 研究之前已经出版过
- The quality is not good enough for the journal 质量没有达到期刊要求
- Reviewers have misunderstood the article 评审人误解文章



- The content is not a good fit for the publication 内容不适合 该期刊
- Conference: in the list of example topics in the call for paper
- Journal: special issue already have editors with some reviewers – need to be in the scope of the call for paper
- Journal: general may take time to find editor and reviewers
- The longer it takes, the less timely is the paper.



- There are serious scientific flaws:严重的科学缺陷
  - Inconclusive results or incorrect interpretation
  - Fraudulent research
- Poor research work cannot produce a good paper!



- It is poorly written 文笔差
- See technical writing



#### Reader's ease of understanding and interest

## Technical Writing科技写作

- How to communicate technical and often quite complicated information so that the reader can understand with less difficulty, 如何传递复杂技术信息让读者更容易理解
- How to organize the thoughts, and 如何组织想法
- How to draw the attention and interests of your reader.如何吸引读者的注意力和兴趣
- Enable people to read with ease of understanding and interest 促使读者带着兴趣阅读并易于理解
  - so that more people will "enjoy" reading your paper 让更多人"享受"阅读你的文章



## Technical Writing科技写作 Organize thoughts, enhance understanding组织想法促进理解

- Organize the contents like a presentation 像演讲 报告那样组织内容 order your thoughts into a list of points, connect them in a logical flow with one point leading to the next but does not rely on knowledge from future points
- Organizing the thoughts during research helps to better understand the research and helps to identify the gaps 研究中整理思路有助于更好地理解研究并识别差距
- Make figures, trees, tables to help the reader (including yourself) to better understand the work. 图表图像有助于读者更好理解内容



## When English is not one's mother language 当英语不是你的母语

- The structure and style in English is different from most Asian languages. 英语结构与风格不同于 大多数亚洲语言
- Writing a paper in a different language first and then translating into English often results in difficulty for the reader to understand. 先用另一种 语言写作然后翻译成英文,会让读者更难理解
- Write directly in English in the first place. —开始 就直接用英文写作



## **Advice from IEEE Expert**

- 多多模仿研习领域专家的论文,熟悉结构与经典句式
  - IEEE Editor
  - IEEE Fellow
  - Native English Speaker



- It does not address a big enough problem or advance the scientific field 没有解决重大问题或提升当前科技水平
- Even excellent research methods on an unimportant problem still cannot produce a good paper.
- Spend time to choose/study the problem before you start your research
  - hot topic, even an important topic will age and lose interest
  - useful topic
- Reviewers are asked to rate the paper as
- important contribution?
- Incremental contribution?
- Yet another paper?



- The work was previously published 研究之前已经出版过
- The quality is not good enough for the journal 质量没有达到期刊要求
- Typical IEEE paper: 6 pages
- Typical Journal paper: 8-12 pages
- After publishing a conference paper, it may still be possible to publish a journal paper you are providing
- at least 40% new content not prolonging existing content or adding details, but new and important content



# Why IEEE editors and reviewers reject papers:Remove each reason IEEE 编辑和评审人拒稿原因

- Reviewers have misunderstood the article 评审人误解文章
- Instead of arguing with reviewer, revise to clarify your point. It will then improve your paper.
- If a reviewer does not understand, it is likely that other readers will not understand
- Arguing with review causes delay, then the paper may not be timely anymore.
- Use the reviewers comments to help you improve your paper.
- If a reviewer gives you low rating, the reviewer MUST give technical reasons. By fixing the problems pointed out by the reviewers, there will be less criticism to your revised paper.

for Humanity

## Structure 结构



## Elements of a manuscript 主体结构

Title 题目

Abstract 文摘

Keywords 关键词

Introduction 引言

Methodology 方法

Results/Discussions/Findings 结果

Conclusion 总结

References 参考文献





## Good vs. Bad Title 好题目/坏题目

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



## Title 题目

### An effective title should... 好的题目 应该

- •Answer the reader's question:

  "Is this article relevant to me?" 回答读者
  问题"这篇文章与我相关吗?"
- •Grab the reader's attention 抓住读者兴趣
- •Describe the content of a paper using the fewest possible words 简洁描述文章内容
  - · Is crisp, concise 简洁
  - · Uses keywords 使用关键词
  - · Avoids jargon 避免行业术语

Good Title Bad Title



## Paper Structure Abstract 文摘

What you did A "stand alone" condensed version of the article 文章的浓缩 版 Why you did it •No more than 250 words; 不超 过250字 written in How the results the past tense 以过去式写作 were useful, important & move Uses keywords the field forward and index terms 使用关键词和索 引词 Why they're useful & important & move the field forward



## Paper Structure Good vs. Bad Abstract 好文摘/坏文摘

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

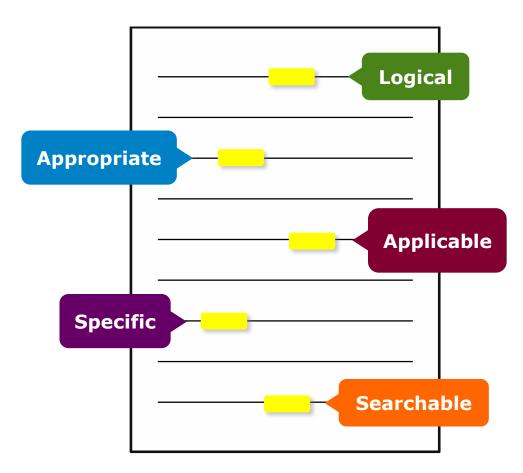
This paper presents and assesses a framework for an engineering capstone design program. We explain how student preparation, project selection, and instructor mentorship are the three key elements that must be addressed before the capstone experience is ready for the students. Next, we describe a way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

问题所在:
First person, present tense 第一人称,现在时
No actual results, only describes the organization of the paper



## Paper Structure Keywords 关键字

Use in the Title and Abstract for enhanced Search Engine Optimization 用在题目和文摘中,以提审检索引擎精度





## Paper Structure Introduction 引言

- A description of the problem you researched 研究问题描述
- It should move step by step through: 按照以下步骤

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 引言不应该
  - · Too broad or vague 太宽泛或太模糊
  - More then 2 pages 超过2页



## Methodology 方法

- Problem formulation and the processes used to solve the problem, prove or disprove the hypothesis 问题构想以及解决问题, 证实或否证假想的过程
- Use illustrations to clarify ideas, support conclusions: 使用图解阐释想法并支持结论

#### Tables 表格

Present representative data or when exact values are important to show



## Figures **E**

Quickly show ideas/conclusions that would require detailed explanations



### Graphs 📳

Show relationships between data points or trends in data





## Results/discussion 结果/讨论

the SC algorithm over the whole range of  $\omega$  values increase to 3.4 K, accept for the TEGR<sub>1</sub>-rg doubtons, with an RMSE of 2 K. This last result is explained by the  $\omega$  distribution, which is bined toward low values of  $\omega$  in this dotabons.

when it classes covers low values or a in the constona-When only introopheric profiles with a values lower than 3 g-cm<sup>-2</sup> are selected, the SC algorithm provides RMSS record 1.5 K, with almost sequel values of this and standard deviation, around 1 K in both cases (with a negative bias, thus the SC underestimates the LST). In contrast, when only us values higher than 3 g-cm<sup>-2</sup> are considered, the SC algorithm

provides RMSEs higher than 5 K. In these cases, it is preferable

to collocate 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 Londen-S TIR bands allow the infercomposition of two LST retrieval methods based on different physical parameters, such as the SC (poly one TIR bond required). Direct inversion that firm (two TIR bands required). Direct inversion two transfer equation, which can be considered in continue, in customed to be a "ground-trub" condition that the information about the condition of Lg in concents enough. The SC algo-in this letter is a continuation of the previous SC valued for Landen-S TIM seasons.

The STIM seasons on bound the Landen-S TIM seasons.

The series of the ETMs sensor on board the Landman's platform [0], and it could be used to generate consistent LET products from the historical Landman don using a single algorithm. An advantage of the SC algorithm is that, open from vertices emissivity, only woster vapor constant in expected on input. However, it is expected that error on LET become unacceptable for high water vapor constant (e.g., > 2 g. cm^ - 0. This problem can be purely solved by computing the atmospheric functions disordly from r. L., and Ly, values [see [0]], or also by including in temperature on input [15]. A main advantage of the SW algorithm is that it performs well over global conditions and, thus, a wide maps of water vapor values; and that it only requires water vapor as input (apart from surface emissivity at the two IIII) bands. Heavesur, the SW algorithm can be

only applied to the new Landant-S TIRS data, since previous

TM/ETM sensors only had one TIR band.

The LST algorithm's presented in this latter were started with immisted data sets obtained for a variety of global atmospheric conditions and surface emissivities. The results showed SMSE values of typically less than 15 K, although for the SC offers of the second of

REFERENCES

L. Carlotte and Car

#### Results

Oct. 2008.

[4] W. Kartas and M. Anderson, "Advances in thermal infrared neuric sensing for land surface modeling," Agric. Forum Meteorol., vol. 149, no. 12, pp. 2071–2061, Dec. 2009.

m. 2071-2081, Dec. 2009.
[J. Z.-L. Li, R.-H. Than, H. Wu, H. San, G. Yan, L. Wan, I. F. Tripp, and J. A. Sofotino, "Saudithe-derived land surface deeperature: Currier status and perspectives," *Emoter State Emotion*, vol. 133, pp. 14-25, Apr. 2003.

[8] Z.-L. H. H. Wu, N. Wing, S. Qiu, J. A. Sobrino, Z. Win, R.-H. Tang, and G. Yao, "Land surface emissivity retrieval from smellite data," Int. J. Remote Sens., vol. 54, no. 910, pp. 5064—5127, 2012.
 [7] A. M. Mika, "Three decodes of Landard instruments," Photogramm. Eng.

 A. M. Miller, Three decodes of London Instruments, Piccogramme, Eng. Remote Sens, vol. 65, no. 7, pp. 652–652, Jul. 1997.
 J. A. Sand, J. R. Schott, F. D. Pallaccoi, D. L. Helder, S. J. Hook, E. L. Minichen, G. Chander, and E. M. O'Donnell, "London TM and

 N. A. Anne, J. A. Schmidt, and S. M. O'Domaid, "Landout TM and ETIA-" flaatmed band calibration," Cons. J. Savante Sear., vol. 29, no. 2, pp. 141–159, 2002.
 N. C. Reales-Maffer, J. Cristfoni, J. A. Schmin, G. Shin, M. Nitoyamia,

[9] Y. C. Resinac-Marico, J. Cristitud, J. A. Sobrico, G. Sinia, M. Ninyamia, and X. Pena, "Earthion of the single-dumnal algorithm for land surface temperature retrieval from Lumbar thermal-influence durin," IEEE Trans. Geoletic Sensit Soc., vol. 47, no. 1, pp. 235–348, Jun. 2009.

Generi, Samots Sano, vol. 47, no. 1, pp. 259–349, hm. 2009.

[10] I. M. McMille, Tatimation of ast surface temperatures from two infrared visidow measurements with difficunt theoretics, "A Geophys. Ser., vol. 60, no. 36, pp. 5113–5117, 1972.

[11] J. A. Schinto, Z.-L. Li, M. R. Scoli, and E. Kacker, "Multi-channel and

[11] J. A. Schrino, Z.-L. Li, M. R. Stoll, and R. Radker, "Multi-channel and multi-angle algorithms for estimating sea and land surface temperature with ATSR data," Int. J. Resocts Serv., vol. 17, no. 11, pp. 2089–2114, 1994.

[12] J. C. Reinker-Matter and J. A. Selvino, "Spith-window conflictants for land surface temperature retrieval from low-custorion thermal infrared season," IEEE Geneti Servet Serv. Lett., vol. 5, no. 4, pp. 806–809, Oct. 2008.

[15] A. Back, G. F. Anderson, F. K. Acharya, F. H. Cheivyani, L. S. Semeisin, E. F. Shetle, M. W. Marthey, and S. M. Adier-Golden, MODIFASIN Over's Mountail. Homeom AFE, MA, USA: Air Fotos Ess. Leit., 1921. [14] A. M. Enfenings, S. J. Rook, C. J. Grows, and G. Evven, The ASTER.

spectral library variation 2.0," Semente Steat. Environ., vol. 115, no. 4, pp. 711-7124, Apr. 2008.

[15] N. Christini, J. C. Braislan-Medico, J. A. Sobrino, M. Ninyarola, and N. Pona, "Improvements in land surface temperature neglected from the Landate stacks steamed both subservative states of the descentation."

X. Four, Temporosamento in Ined surface temporature societad from the August and Control of Cont

[18] J. A. Sobrino and J. C. Panisso-Markot, "Land surface temperature retrieval from thermal infrared data: An assessment in the context of the sertice processes and computers thomps formula response analysis (SPECTRA) mission," J. Geophys. Stat., vol. 110, no. D/8, p. D16 (00, pp. 100).

Demonstrate that you solved the problem or made significant advances

证明你解决问题或作出重大贡献

Discussion

#### Results: Summarized Data 结果: 总结数据

- Should be clear and concise 应该清晰简洁
- Use figures or tables with narrative
   to illustrate findings 使用表格图解配合文字解释结果

#### Discussion: Interprets the Results 讨论: 阐释结果

- Why your research offersa new solution 为什么研究提出了一个新方案
- Acknowledge any limitations 列出研究缺陷

## Paper Structure Conclusion 总结

Explain what the research has achieved

#### 解释研究达到何种效果

- As it relates to the problem stated in the Introduction 与引言所阐述 的问题关联
- Revisit the key points in each section 重新回顾每个部分关键点
- · Include a summary of the main findings, important conclusions and implications for the field 包括重要发现、重要结论和推论的总结
- Provide benefits and shortcomings of: 提供以下优缺点
  - · The solution presented 展示的解决方案
  - · Your research and methodology 你的研究和方法
- Suggest future areas for research 建议未来研究方向



## **Paper Structure** References 参考文献

- Support and validate the hypothesis your research proves, disproves or resolves 支 持和证实你研究所证实、否证或解决的假想
- There is no limit to the number of references 参考文献数量无明确限制
  - But use only those that directly support our work 但是只应列出与研究直接相关的文章
- Ensure proper author attribution 确保作者 署名
  - Author name, article title, publication name, publisher, year published, volume, chapter and page number
  - IEEE journals generally follow a citation numbering system

 $(P_t^{s,+} + P_t^{s,-})^2 = (P_t^{s,+} - P_t^{s,-})^2 + 4P_t^{s,+}P_t^{s,-}$ 

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

$$c_{n/m}(P_t^{s,+}, P_t^{s,-}) < c_{n/m}(\hat{P}_t^{s,+}, \hat{P}_t^{s,-}).$$
 (33)

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

#### REFERENCES

- [1] "Renewables: Energy You can Count on," Tech. Rep. Union of Con-
- [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 realizable renewable energy future," Sci., vol. 285, no. 5428, pp. 687-689, 1999.
- [4] "Exploration of High-Penetration Renewable Electricity Futures," Tech. Rep. National Renewable Energy Lab., 2012.
- [5] T. Wiedmans and J. Minx, A Definition of 'Corbon Footprint'. Hasppage, NY, USA: Nove Science, 2006.
- [5] J. Carracco, L. Franquelo, J. Bialaniewicz, E. Galvae, R. Guisado, M. Pratz, J. Leon, and N. Morano-Alfonso, "Power-electronic materna for the grid integration of renewable energy sources: A survey," IEEE Trans. Ind. Klactron., vol. 53, no. 4, pp. 1902-1016, 2006.
- [7] H. Ibrahim, A. Ilinoa, and J. Perron, "Energy storage systems characteristics and comparisons," Renewable Samurbushle Energy Res., vol. 12, no. 5, pp. 1221-1250, 2008.
- 181 J. Garcia-Gonzalez, R. de la Muela, L. Santre, and A. Gonzalez, "Stochartic joint optimization of wind generation and pumped-storage units is an electricity market," IEEE Trans. Power Syst., vol. 23, no. 2, pp. 460-46K, 200K.
- [9] T. D. Nguyen, K.-J. Tseng, S. Zhang, and T. D. Nguyen, "On the modeling and control of a novel flywheel energy storage system," in Proc. HOSE SWE, 2010, pp. 1395-1401. [10] H. Zhou, T. Bhatlacharya, D. Tran, T. Siew, and A. Khambadkone.
- Composite energy storage system involving battery and ultracapacitos with dynamic energy management in microgrid applications, \*\* IEEE Trans. Piecer Microws, vol. 25, no. 3, pp. 923–930, 2011.

  [11] S. O. Challe and J. F. Miller, "Key challenges and recent progress in batteries, fiel cells, and hydrogen storage for clear energy systems,"
- J. Power Sources, vol. 195, no. 1, pp. 73–80, 2006.

  [12] J. Barton and D. Infald, "Roungy storage and its use with intermittent renewable energy," IEEE Trans. Energy Conversion, vol. 19, no. 2, pp. 441–440, 2004.
- [13] K. O. Voshungh, "Compressed air energy storage," J. Energy, vol. 2, no. 2, pp. 106–112, 1978.
- [14] C. Abbey and C. Joos, "Supercapacitor energy storage for wind energy applications," IEEE Trans. Ind. Appl., vol. 43, no. 3, pp. 769-776,
- [15] P. Brown, J. P. Lopes, and M. Matos, "Optimization of pumped storage capacity in an isolated power system with large renewable penetra-tion," *IEEE Trans. Preset Syst.*, vol. 23, no. 2, pp. 523–531, 2008.
- [16] C. Abbey and G. Joos, "A stochastic optimization approach to rating of energy storage systems in wind-diesel isolated grids," IEEE Trans. Preser Syst., vol. 24, no. 1, pp. 418–425, 2009.
- [17] Y. Zhang, N. Gatsis, and G. Giannakin, "Robust energy manafor microgrids with high-penetration renewables," IEEE Trans. Sup-

IRRE TRANSACTIONS ON SMART GRID, VOL. 1, NO. 4, JULY 2014

- [18] S. Boyd, N. Parikh, E. Chu, B. Peleato, and J. Eckstein, "Distributed optimination and statistical learning via the alternating direction method of realispliers," Foundations Trends black Learning, vol. 3, no. 1, pp.
- [19] G. Calatiore and M. Campi, "The sometic approach to robust contro design," IEEE Trans. Autom. Contr., vol. 51, no. 5, pp. 742-753, 2006. [20] A. Shapiro, D. Dentoheva, and A. Ruscozynski, Lectures on Stochastic Programming: Modelling and Theory. Philadelphia, NJ, USA: SIAM,
- [21] Y. Zhang, N. Gatsis, and G. Giannakis, "Risk-constrained enagement with multiple wind farms," in Proc. IEEE PES ISCIT, Feb.
- 2013, pp. 1-6. [22] Y. Zhang, N. Gatsis, V. Kekatou, and G. Giannakia, "Risk-aware man
- agement of distributed energy resources," in Proc. Set. Conf. Digital Signal Process., Id. 2013, pp. 1-5.

  [23] P. Yang and A. Nebonal, "Hybrid energy storage and generation
- ning with large renewable penetration," in IEEE Int. Workshop Com-puted Adv. Multi-Sensor Adaptive Process., Dec. 2013, pp. 1–4.
- [24] EPRI, "Electricity Energy Storage Technology Options: A White Paper Primer on Applications, Costs, and Benefits," Tech. Rep. EPRI, Palo Alto, CA, USA, 2010.
- (25) National Solar Rediction Data Rase, (Online). Available: http://rredc
- ned govindariold data/north)
  [26] S. Wilcox, National Solar Radiation Database 1991 2010 Update User's Manual, 2012.
- (27) EPRI, "Renewable Energy Technical Assessment Guide TAG-RE:2006," Tech. Rep. EPRI, Pulo Alto, CA, USA, 2007.
- [28] ERCOT Hourly Load Data Archive [Online]. Available: http://www. ercot.com/gridinfo/loed/loed hist/
- [29] M. Grant and S. Boyd, CVX: Mediab Software for Disciplined Conven-Programming, Version 2.0 Beta 2012 [Online]. Available: http://cvsz.
- (MISO), FERC [Online]. Available: http://www.ferc.gov/market-over sight/tekt-electric/midwest/tsiso-archives.asp
- [31] "CAISO Daily Report," 2011, Electric Power Markets: California (CAISO), PERC IOnline1, Available: http://www.ferc.gov/marketoversight's:kt-electric/california/calso-archives.asp



Peng Yang (5'11) received the II.5c. degree in electrical engineering from University of Science and Technology, Ashai, 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. Arye Nehoral.

His research interests include statistical signs processing, optimization, machine learning, and compressive sensing, with applications to awart



Arye Nehorai (S'80-M'83-SM'90-8'94) received the B.Sc. and M.Sc. degrees from the Technico, Harls, lexed, and the Ph.D. degree from Stanford University, Shanford, CA, USA.

He is the Eugene and Martha Lohman Professor and Chair of the Freston M. Green Department of Electrical and Systems Engineering (ESE) at Washington University in St. Louis (WUSTL), St. Louis. MO, USA. Barlier, he was a faculty member at Yale University and the University of Illinois at Chicago.

D. Neboni served as Editor-in-Chief of IllIII.

TRANSACTIONS ON SIGNAL. PROCESSING from 2000 to 2005.

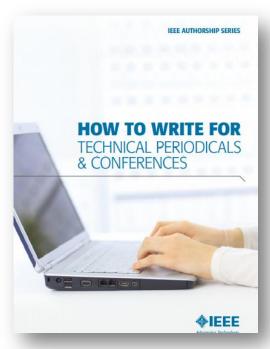
he was the Vice President of the IIIIII Signal Processing Society (SPS), the Chair of the Publications Board, and a member of the Executive Committee of this Society. He was the founding Editor of the special columns on Leadership Reflections in JEEE Signal Processing Magazine from 2003 to 2006. He has been a Fellow of the HIIII since 1994, the Royal Statistical Society since 1996,

**Properly** cited material



## IEEE Author Guide Always Available IEEE作者指南

- Authors learn how to prepare, write, and submit quality technical articles.
- Can be downloaded
- Includes embedded links to information, forms, etc.





For more information or to

download: <a href="http://www.ieee.org/publications">http://www.ieee.org/publications</a> standards/publications/authors/publishing benefits/index.html?WT.mc\_id=pb\_ben\_pub

## Key sites to remember 记住这些重要网站

#### **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:** <a href="http://ieeexplore.ieee.org">http://ieeexplore.ieee.org</a>

**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



### 数据库登陆:

<u> http://ieeexplore.ieee.org</u>

### 培训网站:

<u>http://cn.ieee.org/online\_t</u> <u>raining.html</u> 了解更多文献检索和写作辅导建议请关注微信公众号"学术猫"





### 有问题请联系

<u>li.q@ieee.org</u> <u>dan@igroup.com.cn</u>

下载网络课堂PPT,请关注"IEEE Xplore 微服务",每周一登录公众号,首页回复"网络课堂"即可获得PPT下载链接

