

# “Strategies for Searching IEEE Xplore”

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**Ranbir S Sedhey**

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# Housekeeping

- All attendees are requested to be on mute throughout the session.
- Please use the chat box for any questions.
- Any unanswered question will be answered via email later.

# AGENDA

- IEEE Initiative during COVID – 19
- Brief overview of IEEE
- Xplore new features – IEEE Open Access, Code Ocean, IEEE Data port and More !
- IEEE Professional Development Courses for Practicing Engineers & Scientists
- Q n A

## IEEE Initiative During COVID- 19

- ❑ Temp Username and password
- ❑ Free access to articles on COVID-19
- ❑ Free access to 60 + eLearning courses.
- ❑ Standard C63.27-2017 - (which is referenced by the FDA in its ventilator requirements and is now free to users)

# About the IEEE

- World's largest technical membership association with more than 417,000 members in over 160 countries
- Not for profit organization "Advancing Technology For Humanity"
- Core areas of activity
  - Membership organization
  - Conferences organizer
  - Standards developer
  - Publisher of journals, conferences, standards, eBooks, and eLearning
- IEEE *Xplore* by the numbers:
  - Over 5 million total documents
  - More than 13 million downloads per month
  - Over 10 million unique users



IEEE Student Branch in Egypt,  
IEEE Day Video Contest Winner



IEEE Day at Student Branch in Pakistan

# IEEE quality makes an impact

Journal Citation Reports® by Impact Factor

## IEEE publishes:

**The top 20** journals in Electrical and Electronic Engineering

**18 of the top 20** journals in Telecommunications

**3 of the top 5** journals in Artificial Intelligence

**The top 6** journals in Computer Science, Information Systems

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

**8 of the top 10** journals in Automation & Control Systems

**3 of the top 5** journals in Computer Science, Cybernetics

**3 of the top 5** journals in Imaging Science & Photographic Technology

Source: 2018 Journal Citation Reports (Clarivate Analytics, 2019)

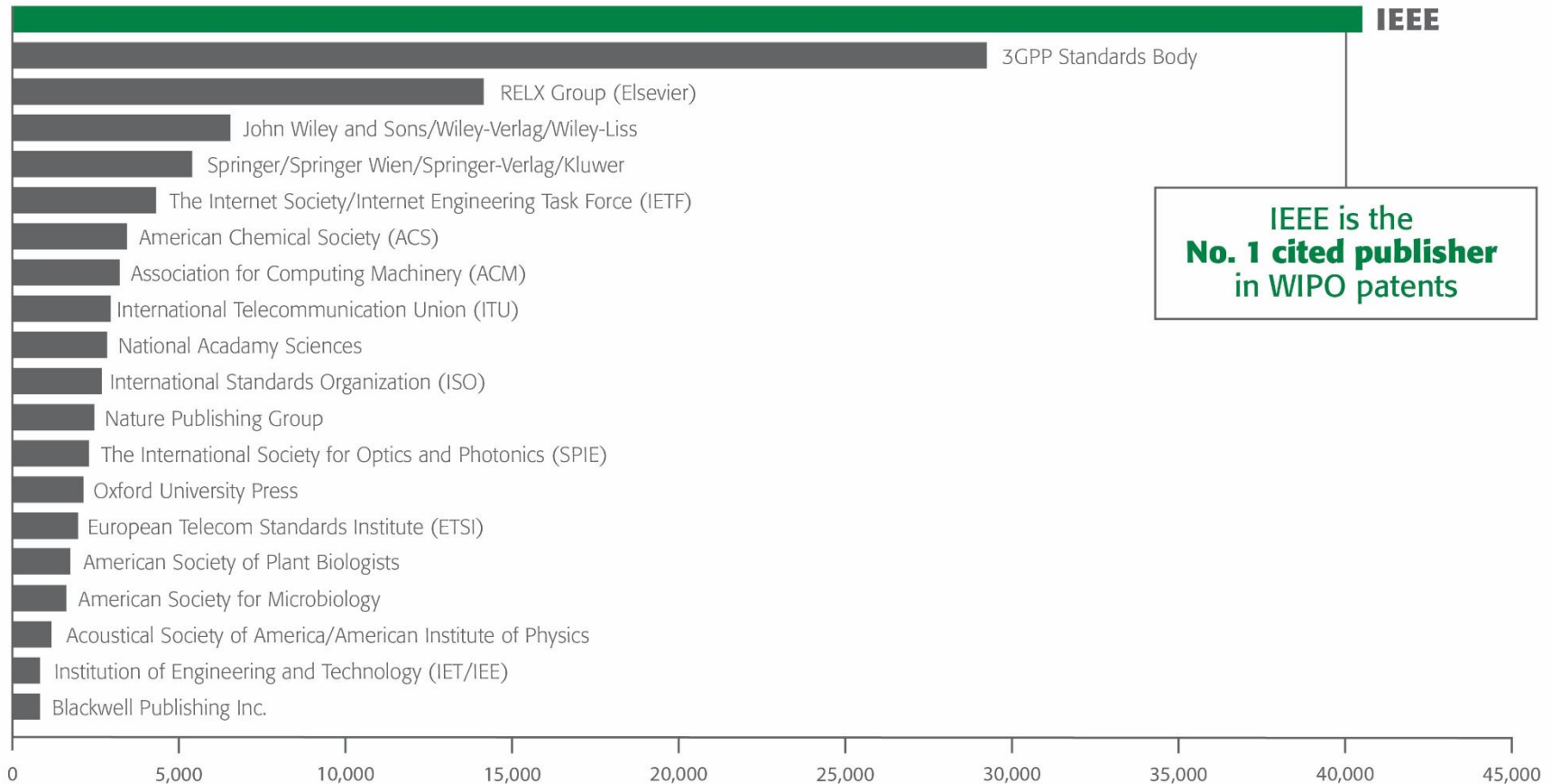
Journal Citation Reports present quantifiable statistical data that provide a systematic, objective way to evaluate the world's leading journals.

More info: [www.ieee.org/citations](http://www.ieee.org/citations)



# IEEE Leads Worldwide Patent Citations

## Top 20 Publishers Referenced Most Frequently by Top 30 Patenting Organizations



Source: 1790 Analytics LLC 2019

# IEEE: Your Source for Emerging Technologies Related to 4IR

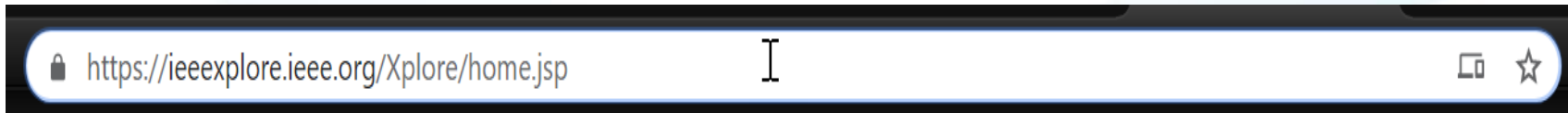
Cutting-Edge Innovation Found in IEEE *Xplore*



All found in IEEE's growing portfolio of publications...



# New Features & Updates @



# New IEEE Journals Coming in 2020

These new journal titles will soon be available and accessible via subscription:

- IEEE Journal of Emerging and Selected Topics in Industrial Electronics
- IEEE Reliability Magazine
- IEEE Journal on Selected Areas in Information Theory
- IEEE Transactions on Technology and Society



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IEEE will soon offer even more options for authors with the upcoming launch of new fully open access journals:

- IEEE Open Journal of Antennas and Propagation
- IEEE Open Journal of Circuits and Systems
- IEEE Open Journal of the Communications Society
- IEEE Open Journal of the Computer Society
- IEEE Open Journal of Engineering in Medicine and Biology
- IEEE Open Journal of Industry Applications
- IEEE Open Journal of the Industrial Electronics Society
- IEEE Open Journal of Intelligent Transportation Systems
- IEEE Open Journal of the Microwave Theory and Techniques Society
- IEEE Open Journal of Nanotechnology
- IEEE Open Journal of Power Electronics
- IEEE Open Journal of Signal Processing
- IEEE Open Journal of Solid-State Circuits
- IEEE Open Journal of Vehicular Technology

*IEEE Access* will soon introduce the following Society Sections:

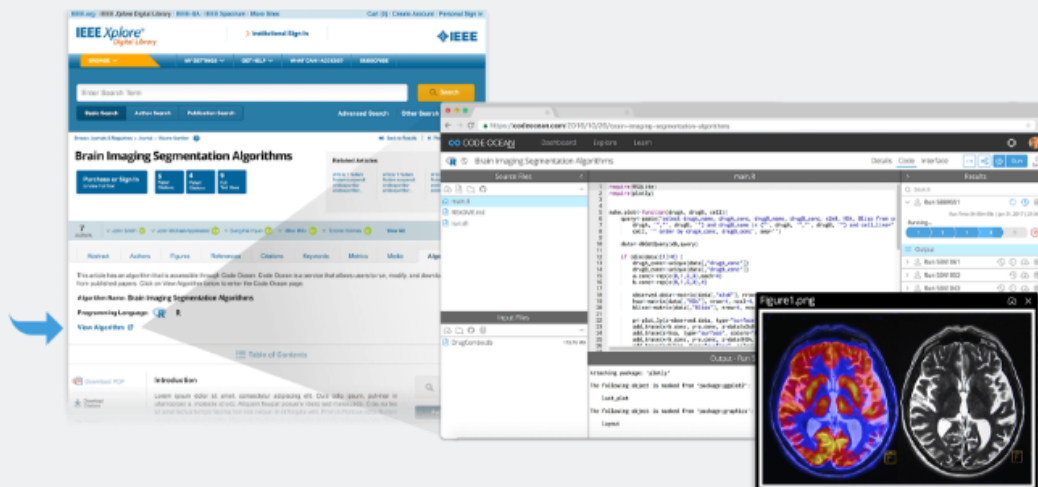
- IEEE Broadcast Technology Society
- IEEE Electronics Packaging Society
- IEEE Engineering in Medicine and Biology Society
- IEEE Photonics Society
- IEEE Power & Energy Society
- IEEE Reliability Society

IEEE is also currently planning to transition the IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing to fully open access in 2020.

# Code Ocean is live!

## Upload your algorithms

Upload your code to Code Ocean to make it discoverable on IEEE Xplore.



Questions? [support@codeocean.com](mailto:support@codeocean.com) | Learn more: [codeocean.com](http://codeocean.com)

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I agree to Code Ocean's [Terms of Use and Privacy Policy](#).


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- Metrics on author's total publications & history
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**Bhim Singh**  
Also published under: B. P. Singh, B. Singh

**Affiliation**  
Department of Electrical Engineering  
Indian Institute of Technology Delhi  
New Delhi, India

**Publication Topics**  
power supply quality, voltage control, power convertors, power factor correction, asynchronous generators, DC-DC power convertors, power generation control, reactive power control, static VAr compensators, electric  
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**Biography**  
Bhim Singh (SM'99-F'10) received the bachelor's degree in electrical engineering from the University of Roorkee, Roorkee, India, in 1977, and the M.Tech. in power apparatus and systems and the Ph.D. degrees from the Indian Institute of Technology (IIT), New Delhi, India, in 1979 and 1983, respectively. He joined the Department of Electrical Engineering, University of Roorkee, in 1983, as a Lecturer. He became a Reader in 1988. In December 1990, he joined the Department of Electrical Engineering, IIT Delhi, as an Assistant Professor, where he became an Associate Professor in 1994 and a Professor in 1997. He has guided 41 Ph.D. dissertations 130 M.E./M.Tech. theses and 60 B.E./B.Tech. projects. He has executed more than 70 sponsored and consu... [Show More](#)

**Publications** **449**

Publication Years: 1979 - 2014

**Co-Authors:**  
Kamal Al-Haddad  
Neha Adhikari  
Alka Adya  
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Kamal Al-Haddad  
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Conferences (365)  Journals (82)  Magazines (2)

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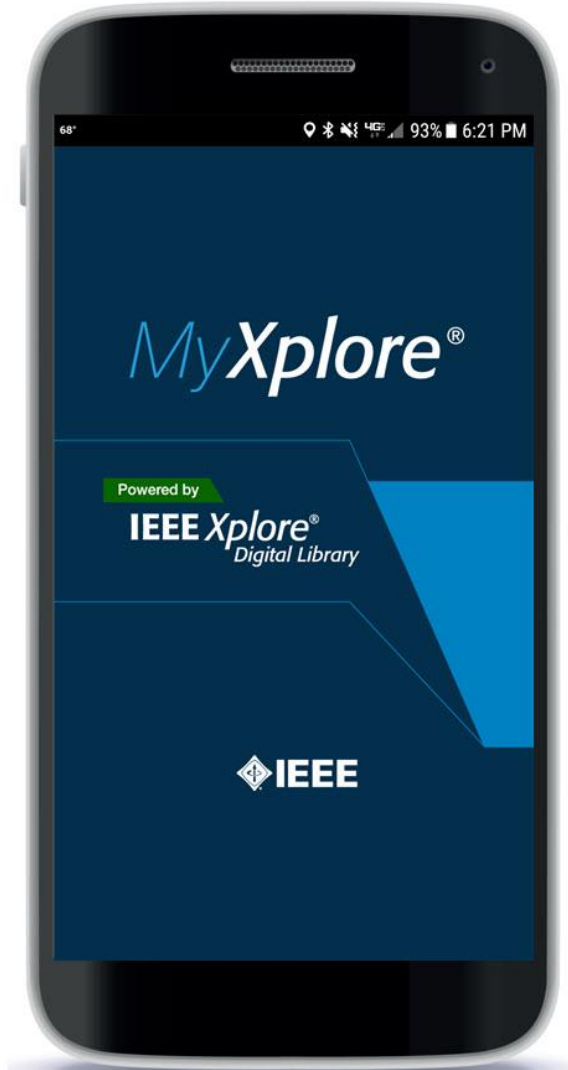
**Back-Propagation Control Algorithm for Power Quality Improvement Using DSTATCOM**  
Bhim Singh ; Sabha Raj Arya  
IEEE Transactions on Industrial Electronics  
Year: 2014 | Volume: 61, Issue: 3 | Journal Article | Publisher: IEEE  
Cited by: Papers (72)  
[Abstract](#) [\(html\)](#) [PDF \(1229 Kb\)](#) [CC](#)

**Investigation of Vibration Signatures for Multiple Fault Diagnosis in Variable Frequency**

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# What is IEEE DataPort?

A web-based, cloud services platform supporting the data-related needs of the global technical community

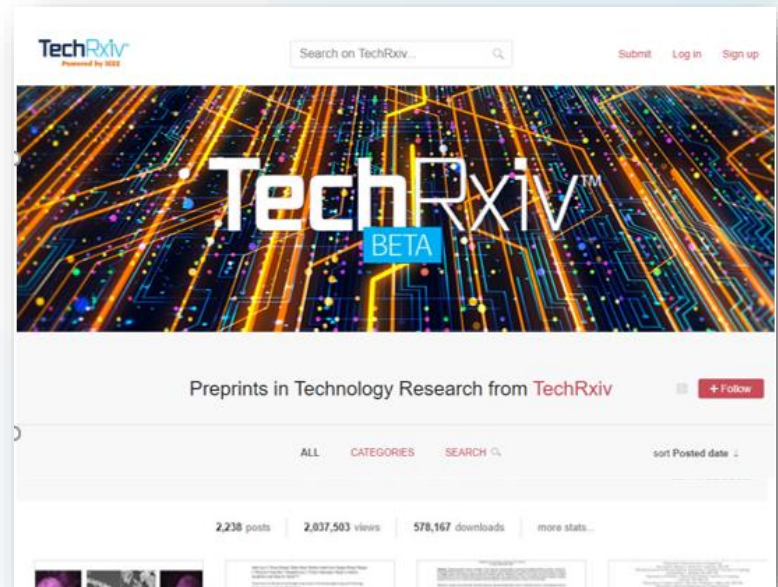
- Stores datasets up to 2TB each and enable deposits of multiple data files (indefinitely data storage)
- Datasets can be linked to IEEE *Xplore* articles
- Datasets are minted with a DOI
- Citations are formulated and provided in multiple formats for users
- Integrated with ORCID; users can optionally have the IEEE *DataPort* dataset asset automatically added to their ORCID asset list
- Can support and facilitate Data Challenges
- Can store and link related documentation – scripts, visualizations, related documentation
- Fully integrated with Amazon Web Services (AWS) to facilitate data analytics

The screenshot displays the IEEE DataPort website interface. At the top, the navigation bar includes 'DATAPORT', 'COMPETITIONS', 'SUBSCRIBE', 'SUBMIT A DATASET', 'ABOUT', and 'SEARCH...'. The main content area is divided into several sections:

- WELCOME TO IEEE DATAPORT:** A blue banner with text describing the platform's capabilities and a 'Learn More' link.
- GET STARTED:** A section with a 'Submit a Dataset' button and a 'Subscribe' button. Below the buttons is a text box for an email address and a 'Submit' button.
- GET UPDATES:** A section with a text box for an email address and a 'Submit' button.
- DATASET CATEGORIES:** A list of categories with counts, including Astronomy (3), Biomedical and Health Sciences (61), Biophysiological Signals (34), Communications (81), Computational Intelligence (82), Computer Vision (11), Demographic (3), Ecology (3), Environmental (10), Financial (5), Geoscience and Remote Sensing (24), Image Fusion (15), Image Processing (64), Other (108), Power and Energy (67), Reliability (18), Security (27), Sensors (36), Signal Processing (69), Social Sciences (15), Standards Research Data (11), and Transportation (19).
- Featured Datasets:** A grid of dataset thumbnails with titles and brief descriptions:
  - DNN CLASSIFIER OF WIDE-ANGLE RETINAL IMAGES IN COMPUTER-AIDED SCREENING FOR ROP:** Featured in Medical Imaging.
  - QRS signal database collected while solving 3D puzzles and relaxation responses:** Includes a line graph showing signal amplitude over time.
  - Mock Dataset:** Includes a world map visualization.
  - Energy efficient indoor localization WIP: Fingerprint dataset:** Includes a 3D globe visualization.
  - Slip suppression of prosthetic hand:** Includes an image of a person wearing a prosthetic hand.
  - Anomaly Detection with Laser Heat Treatment Thermal Video:** Includes a heatmap visualization.
  - Electrophysiologically identified motor points of forearm muscle:** Includes a diagram of a hand with electrode locations.
  - Fractional Slot PMSMs with One Coil Parallel Branches Made Phases: Topological...:** Includes an image of a train tunnel.
  - TestData for the case HE-ICS:** Includes a diagram of a circuit board.
  - Micro-scale 2D Thermal Gradiometer:** Includes a graph showing temperature profiles.

# TechRxiv™ Preprint Server

- TechRxiv is an open, moderated repository for unpublished and pre-review research in electrical engineering, computer science, and related technology.
- Authors can quickly disseminate their work to a wide audience to gain feedback of a draft version and claim credit for their unpublished research.
- Aim is to increase the accessibility of scientific findings, improve research, and build the future of scholarly communication.
- Authors can post preprint papers to TechRxiv regardless of where they eventually intend to submit and publish the paper.
- TechRxiv is for preprint research only. All submissions to TechRxiv are screened prior to acceptance but are not peer reviewed.





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# Content for



in

The screenshot shows the IEEE Xplore Digital Library homepage. At the top left is the logo "IEEE Xplore® Digital Library". Navigation links include "Browse", "My Settings", "Help", and "Institutional Sign In". The main banner features the text "Advancing Technology for Humanity" and "SEARCH 5,024,362 ITEMS". A search bar at the bottom contains the word "All" and a search icon.

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- Complimentary access to more than **11,300 papers** from **20+ VDE conference** titles
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# IIT & IEEE Xplore

**30,484** for ("Affiliation": "Indian inst\* of tech\*")

Conferences	21,838
Journals	7,826
Early Access Articles	411
Magazines	242
Books	107



## A fast and elitist multiobjective genetic algorithm: NSGA-II

K. Deb ; A. Pratap ; S. Agarwal ; T. Meyarivan

IEEE Transactions on Evolutionary Computation

Year: 2002 | Volume: 6, Issue: 2 | Journal Article | Publisher: IEEE

Cited by: Papers (18187) | Patents (4)

2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Jan	Feb	Mar	Apr	May	Jun	<b>89015</b> Total usage since Jan 2011			
1187	1251	1258	-	-	-				
Jul	Aug	Sep	Oct	Nov	Dec				
-	-	-	-	-	-	Best Month: Mar      Year Total: 3696 * Data is updated on a monthly basis. Usage includes PDF downloads and HTML views.			



# Article History of



in IEEE Xplore®  
Digital Library

5713

## First Article

**Proof of the Manley-Rowe relations from quantum considerations**

J. Brown

Electronics Letters

Year: 1965 | Volume: 1, Issue: 1 | Journal Article | Publisher: IET

## Latest Article

**Denial-of-Service Resilient Frameworks for Synchrophasor-Based Wide Area Monitoring Systems**

Astha Chawla ; Prakhar Agrawal ; Animesh Singh ; Bijaya Ketan Panigrahi ; Kolin Paul ; Bhavesh Bhalja  
Computer

Year: 2020 | Volume: 53, Issue: 5 | Magazine Article | Publisher: IEEE

## Most Cited Article

**A review of active filters for power quality improvement**

B. Singh ; K. Al-Haddad ; A. Chandra

IEEE Transactions on Industrial Electronics

Year: 1999 | Volume: 46, Issue: 5 | Journal Article | Publisher: IEEE

Cited by: Papers (1344) | Patents (4)

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- Ambrish Chandra (86)
- B. Singh (82)
- Swades De (78)
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- A. Kumar (67)
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- M. Veerachary (60)
- Shankar Prakriya (57)
- Mummadi Veerachary (55)
- Kamal Al-Haddad (54)
- Shailendra Kumar (52)
- Subrat Kar (52)

# IEEE Upcoming Conferences



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# eLearning available during COVID19 – 62 Courses

Enterprise Blockchain for  
Healthcare, IoT , Energy, and  
Supply Chain (2019)



Modernizing the  
Smart Grid (2018)



IEEE Guide to Autonomous  
Vehicle Technology (2018)



Introduction to IEEE Standard  
1547™-2018: Connecting  
Distributed Energy Resources



English for Engineers



IEEE Guide to the Internet of  
Things (2017)



Artificial Intelligence and  
Ethics in Design Part 1  
(2018)



Introduction to Edge  
Computing (2019)



Cybersecurity Tools  
for Today's Environment  
(2016)



Engineering Ethics



# IEEE eLearning Online Courses – Free Access During COVID-19

## Enterprise Blockchain for Healthcare, IoT, Energy, and Supply Chain (2019)

- ✓ Enterprise Blockchain Overview
- ✓ Enterprise Blockchain for Grid Modernization
- ✓ Enterprise Blockchain for Supply Chain
- ✓ Enterprise Blockchain for the Internet of Things
- ✓ Enterprise Blockchain for Healthcare Data

## Modernizing the Smart Grid (2018)

- ✓ Strong Grid Before Smart Grid
- ✓ Smart Distribution Systems
- ✓ The Digitized Grid
- ✓ Engaging Consumers in the Smart Grid Marketplace

## Artificial Intelligence and Ethics in Design Part 1 (2018)

- ✓ Responsible Innovation in the Age of AI
- ✓ The Economic Advantage of Ethical Design for Business
- ✓ Values by Design in the Algorithmic Era
- ✓ The Nature of Nudging
- ✓ Ensuring Data Protection and Data Safety

## Artificial Intelligence and Ethics in Design: Responsible Innovation Part 2 (2018)

- ✓ From Growth to Great
- ✓ The Basis for No Bias
- ✓ Transparency and Accountability for Robots and AI Systems
- ✓ Human Emotion in Devices and Technology
- ✓ Legal and Implementation Issues of Enterprise AI

## Cybersecurity Tools for Today's Environment (2016)

- ✓ Cloud Security
- ✓ Cryptography Fundamentals
- ✓ Data Security in the Cloud
- ✓ Foot printing
- ✓ Introduction to Penetration Testing
- ✓ Mobile Device Security
- ✓ Network Sniffing
- ✓ Social Engineering for Cyber Security
- ✓ System Fundamentals for Cyber Security
- ✓ Web Server & Web Application Security
- ✓ WiFi and Bluetooth Security

## Introduction to IEEE Standard 1547™-2018: Connecting Distributed Energy Resources (2019)

- ✓ Introduction to IEEE Std 1547-2018
- ✓ Power Quality and Voltage Regulation in IEEE Std 1547-2018
- ✓ Response to Area EPS Abnormal Conditions
- ✓ Islanding and Networks
- ✓ Interoperability, InfoExchange and Network, and Protocols
- ✓ Interconnection Test and Verification
- ✓ Cloud Computing (2015) 25 Courses
- ✓ Transportation Electrification (2015) 23 Courses
- ✓ Professional Engineer License (2015) 7 Courses
- ✓ Fundamentals for Technical Professionals (2015) 9 Courses

## Introduction to Edge Computing (2019)

- ✓ Overview of Edge Computing
- ✓ Practical Applications of Edge Computing
- ✓ The Challenges of Edge Computing
- ✓ Designing Security Solutions for Edge, Cloud and IoT
- ✓ Tools and Software for Edge Computing Applications

## IEEE Guide to Autonomous Vehicle Technology (2018)

- ✓ Cooperation in Autonomous Vehicles
- ✓ Developing and Validating Control Systems for Connected and Automated Vehicles
- ✓ Human Factors in Vehicle Automation
- ✓ Intelligent Control of Connected and Automated Vehicles
- ✓ Object Visual Detection for Intelligent Vehicles
- ✓ Object Visual Recognition for Intelligent Vehicles
- ✓ Sensors for Autonomous Vehicles

## IEEE Guide to the Internet of Things (2017)

- ✓ What is the Internet of Things
- ✓ IoT Software: Fundamental Concepts and State of the Art
- ✓ Exploring IoT Industry Applications: The Evolution of Internet of Things for Healthcare
- ✓ Exploring IoT Industry Applications: Limitations of Wireless Technology on Healthcare IoT
- ✓ Exploring IoT Industry Applications: Paving the Way for Future IoT Applications in Healthcare
- ✓ The Emerging Paradigm of the Social Internet of Things
- ✓ Social Internet of Things: Existing Platforms
- ✓ Social Internet of Things: Reference Architecture and Use Cases



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<https://ieeexplore.ieee.org>

# QUESTIONS ?

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