IEEE Guide to the Internet of Things (IoT)

An IEEE eLearning Library Course Program

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NEW! IEEE Guide to the Internet of Things (IoT) Program

There will be more than 24 billion Internet of Things devices installed by 2020. The way in which people live their lives and do business will be fundamentally changed as these devices lower operating costs, improve efficiency, and expand markets. Is your organization ready?

IEEE Guide to the Internet of Things Program is a series of eight training courses, led by top researchers in the field, to give any organization the foundational knowledge it needs now to prepare for the Internet of Things.

In this 8-course program, participants will learn:

- What the IOT is, along with its applications, challenges, and future opportunities
- How the healthcare industry is applying IOT concepts (as an example of how this technology may affect an industry)
- Real-life applications of the Social IOT, while exploring the underlying architecture needed to support these applications

These courses are designed for professionals working in engineering, IT, computer science and related fields across all industries who require up-to-date information on the latest technologies as well as their managers.

IEEE has partnered with top researchers in computer science, eHealth, and telecommunications:

- Thiemo Voigt
- Christian Rohner
- Luca Mottola
- Agusti Solanas
- Francisco Falcone
- Antoni Martínez Ballesté
- Antonio Iera
- Giacomo Morabito
- Luigi Atzori

Internet of Things Course Program Quick Facts

Eight courses that cover both foundational and practical applications of emerging Internet of Things (IoT) technologies

Delivered via IEEE *Xplore*, with its mobile-friendly design and powerful search features

Asynchronous online courses can be taken at the learner's convenience

Printable CEU or PDH certificates upon the successful completion of the program

Introductory, Intermediate, or Advanced course levels

Introductory and Intermediate course levels

Corporate pricing available: Pay one low price to train your entire technical staff

2017 single-site pricing: US$2,995

Provides perpetual access for all users in an organization (single site). Multi program discounts are available.

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IEEE eLearning Library: Delivered through the IEEE *Xplore*® Digital Library

The IEEE Guide to the Internet of Things Course Listing:

What is the Internet of Things

This course provides an overview of the IoT technology. A range of application areas and challenges are discussed, including the broader implications of networked small devices and associated security challenges.

IoT Software: Fundamental Concepts and State of the Art

This course covers IoT applications, requirements, design methodologies, software architectures and programming, and specific development frameworks.

Exploring IoT Industry Applications: The Evolution of Internet of Things for Healthcare

This course explores how the healthcare industry is applying IoT concepts as an example of how this technology may affect an industry.

Exploring IoT Industry Applications: Limitations of Wireless Technology on Healthcare IoT

This course covers the characteristics and limitations imposed by the physical wireless channel, as well as the specifications of communication transceivers employed in order to provide connectivity within m-health/Smart health scenarios.

Exploring IoT Industry Applications: Paving the Way for Future IoT Applications in Healthcare

This course explores current real-life scenarios, focused on the use of connectable devices and advanced mobile devices that collect data, that pave the way for future applications.

The Emerging Paradigm of the Social Internet of Things

This course provides an introduction to this paradigm, reviews related basic concepts, provides an overview of the existing literature and projects, and describes a specific solution in detail by providing some example applications.

Social Internet of Things: Existing Platforms

In this course, the most relevant commercial and research platforms, which envision objects with “social” attributes, are presented, analyzed, and compared.

Social Internet of Things: Reference Architecture and Use Cases

In this course, a cloud-based reference architecture for the Social Internet of Things paradigm is presented, along with use-cases to show the usage of the reference architecture. Topics covered include: A reference architecture overview, major architecture components; and architecture APPIs.

Now delivered through IEEE *Xplore*

Access all course content through IEEE *Xplore* with an improved experience that provides:

- Streamlined access to all content from IEEE in one place, using existing IEEE Xplore credentials
- A modern, mobile-friendly design for eLearning content
- Discovery of more eLearning content of interest through a new, easy-to-use browse experience, with filtering by topic
- Access to all of the powerful features of IEEE *Xplore*, including enhanced search capabilities and filtering, self-service usage statistics, and more

IEEE Continuing Education Units (CEUs) and Professional Development Hours (PDHs)

All courses are peer-reviewed by content experts, a process that guarantees both the quality of the technical content as well as adherence to strict IEEE criteria for educational excellence. As a CEU provider, IEEE can offer CEUs for any IEEE learning activity running at least one hour in duration. IEEE CEUs can also be converted into the PDHs needed to meet recertification requirements for professional certifications or licenses.

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