

IEEE Computer Society

Institute of Electrical and Electronics Engineers

The IEEE Computer Society is the world's leading membership organization dedicated to computer science and technology. Serving more than 60,000 members, the IEEE Computer Society is the trusted information, networking, and career-development source for a global community of technology leaders that includes researchers, educators, software engineers, IT professionals, employers, and students.

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The IEEE Computer Society is the community for technology leaders. As the computing professional's single, unmatched source for technology information, inspiration and collaboration, we are the organization that computing's leaders, innovators, and researchers trust.

Top Technology Trends for 2014-2018

IEEE computer society predicts the future of Technology

Sr.	Top Technology Trends 2014-IEEECS	Keywords
1	Emergence of the Mobile Cloud	Cloud computing Mobile cloud

2	From Internet of Things to Web of Things	Web of Things, Nature of Things
3	From Big Data to Extreme Data	Extreme Data, Extreme value
4	The Revolution will Be 3D	3D printers, Laser printing, Woodblock printing
5	Supporting new Learning styles	Learning styles
6	Next Generation Mobile Networks	mobile telecommunications, mobile operators, Next Generation Networks
7	Balancing Identity and Privacy	Security and identity
8	Smart and Connected Healthcare	Connected Health
9	E-Government	
10	Scientific Cloud Computing	Cloud services, Cloud computing, One set of services, software as a service (SaaS)

Sr.	Top Technology Trends 2015-IEEECS	Keywords
1	Time is right for wearable devices	wearable technology
2	Internet of anything Becoming All-Encompassing	IOT
3	Building security into software Design	Secure design, Threat modeling, Static code analysis, Security testing.
4	The age of software defined anything (SDx)	software defined systems, software defined networks
5	Cloud security and privacy concerns grow	data privacy, data protection, data availability, data location, secure transmission
6	3D printing poised for Takeoff	additive manufacturing, 3D printing
7	Telling the future with predictive analytics	predictive analytics

8	Security considerations for Embedded computing	Embedded computing, Embedded systems
9	Real growth in Augmented Reality applications	Augmented Reality,
10	Continuous Digital Health	Digital Health, Extreme Automation

Sr.	Top Technology Trend 2016-IEEECS	Keywords
1	5G	
2	Virtual Reality and Augmented Reality	Augmented Reality, Virtual Reality
3	Nonvolatile Memory	persistent storage, Non-volatile memory, permanent storage
4	Cyber Physical Systems (CPS)	
5	Data Science	
6	Capability Based Security	
7	Advanced Machine Learning	Machine learning, artificial intelligence
8	Network Function Virtualization (NFV)	
9	Containers	shipping containers, ISO containers
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Sr.	Top Technology Trend 2017-IEEECS	Keywords
1	Industrial IOT	IOT
2	Self-Driving Cars	robot car, autonomous car, or driverless car,
3	Artificial Intelligence, Machine Learning, Cognitive computing	Artificial Intelligence, Machine Learning, Cognitive computing

4	5G	
5	Accelerators	
6	Disaggregated Memory Fabric attached - Nonvolatile Memory	Non-volatile Memory, persistent storage, permanent storage
7	Sensors Everywhere and Edge Compute	Edge Computing
8	Blockchain (Beyond Bitcoin)	
9	Hyper - Converged Systems	Converged infrastructure, converged architecture
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Sr.	Top Technology Trend 2018-IEEECS	Keywords
1	Deep learning	deep structured learning, hierarchical learning, machine learning
2	Digital Currencies	virtual currency, cryptocurrency
3	Blockchain	
4	Industrial IOT	IOT
5	Robotics	autonomous robot
6	Assisted Transportation	
7	Assisted Reality and Virtual Reality (AR/VR)	Assisted Reality, Virtual Reality
8	Ethics, Laws, and Policies for privacy, security and liability	regulations
9	Accelerators and 3D	Accelerators, 3D Printing, 3D Printers
10	Cyber security and AI	information technology security (IT security), narrow AI, Virtual personal assistants,