Articles Published in Proceedings of the IEEE from 2020 to 2022

Article Title	Vol.	No.	Links to the articles
Deep Learning in Ultrasound Imaging	108	1	https://ieeexplore.ieee.org/document/8808885
Machine Learning for Rapid Magnetic Resonance Fingerprinting Tissue Property Quantification	108	1	https://ieeexplore.ieee.org/document/8831396
Machine Learning in PET: From Photon Detection to Quantitative Image Reconstruction	108	1	https://ieeexplore.ieee.org/document/8844693
Image Reconstruction: From Sparsity to Data-Adaptive Methods and Machine Learning	108	1	https://ieeexplore.ieee.org/document/8844696
Model-Based and Data-Driven Strategies in Medical Image Computing	108	1	https://ieeexplore.ieee.org/document/8867900
CAI4CAI: The Rise of Contextual Artificial Intelligence in Computer-Assisted Interventions	108	1	https://ieeexplore.ieee.org/document/8880624
Brain Imaging Genomics: Integrated Analysis and Machine Learning	108	1	https://ieeexplore.ieee.org/document/8886705
Deep-Learning-Based Image Reconstruction and Enhancement in Optical Microscopy	108	1	https://ieeexplore.ieee.org/document/8901171
Wireless Capsule Endoscopy: A New Tool for Cancer Screening in the Colon With Deep-Learning-Based Polyp Recognition	108	1	https://ieeexplore.ieee.org/document/8903282
Comparison of Breast MRI Tumor Classification Using Human-Engineered Radiomics, Transfer Learning From Deep Convolutional Neural Networks, and	108	1	https://ieeexplore.ieee.org/document/8908758
Mobile Edge Intelligence and Computing for the Internet of Vehicles	108	2	https://ieeexplore.ieee.org/document/8884164
The Security of Autonomous Driving: Threats, Defenses, and Future Directions	108	2	https://ieeexplore.ieee.org/document/8890622
5G Vehicle-to-Everything Services: Gearing Up for Security and Privacy	108	2	https://ieeexplore.ieee.org/document/8897696
SDN/NFV-Empowered Future IoV With Enhanced Communication, Computing, and Caching	108	2	https://ieeexplore.ieee.org/document/8907851
Learning Driving Models From Parallel End-to-End Driving Data Set	108	2	https://ieeexplore.ieee.org/document/8913579
Future Intelligent and Secure Vehicular Network Toward 6G: Machine-Learning Approaches	108	2	https://ieeexplore.ieee.org/document/8926369
Toward Reliable and Scalable Internet of Vehicles: Performance Analysis and Resource Management	108	2	https://ieeexplore.ieee.org/document/8938746
Deep-Learning-Based Wireless Resource Allocation With Application to Vehicular Networks	108	2	https://ieeexplore.ieee.org/document/8943940

Evolutionary V2X Technologies Toward the Internet of Vehicles: Challenges and Opportunities	108	2	https://ieeexplore.ieee.org/document/8967260
Combinatorial Optimization of Graphical User Interface Designs	108	3	https://ieeexplore.ieee.org/document/9000519
Adversarial Learning Targeting Deep Neural Network Classification: A Comprehensive Review of Defenses Against Attacks	108	3	https://ieeexplore.ieee.org/document/9013065
A Key 6G Challenge and Opportunity—Connecting the Base of the Pyramid: A Survey on Rural Connectivity	108	4	https://ieeexplore.ieee.org/document/9042251
Model Compression and Hardware Acceleration for Neural Networks: A Comprehensive Survey	108	4	https://ieeexplore.ieee.org/document/9043731
Physical Limits of NanoLEDs and Nanolasers for Optical Communications	108	5	https://ieeexplore.ieee.org/document/8713372
Structured Semiconductor Interfaces: Active Functionality on Light Manipulation	108	5	https://ieeexplore.ieee.org/document/8738979
Experimental Investigation of Lasing Modes in Double-Lattice Photonic-Crystal Resonators and Introduction of In-Plane Heterostructures	108	5	https://ieeexplore.ieee.org/document/8824187
Electrically Pumped Microring Parity-Time-Symmetric Lasers	108	5	https://ieeexplore.ieee.org/document/8832187
Optical Properties and Light-Emission Device Applications of 2-D Layered Semiconductors	108	5	https://ieeexplore.ieee.org/document/8832249
Topological Nanophotonics: Toward Robust Quantum Circuits	108	5	https://ieeexplore.ieee.org/document/8848487
Lattice Resonances in Optical Metasurfaces With Gain and Loss	108	5	https://ieeexplore.ieee.org/document/8852732
Two-Dimensional CdSe-Based Nanoplatelets: Their Heterostructures, Doping, Photophysical Properties, and Applications	108	5	https://ieeexplore.ieee.org/document/8876842
Active and Tunable Nanophotonics With Dielectric Nanoantennas	108	5	https://ieeexplore.ieee.org/document/8889662
Colloidal Plasmonics for Active Nanophotonics	108	5	https://ieeexplore.ieee.org/document/8950274
Integrated, Portable, Tunable, and Coherent Terahertz Sources and Sensitive Detectors Based on Layered Superconductors	108	5	https://ieeexplore.ieee.org/document/8950275
Active Nanophotonics	108	5	https://ieeexplore.ieee.org/document/9072282
Indoor Millimeter-Wave Systems: Design and Performance Evaluation	108	6	https://ieeexplore.ieee.org/document/9094692

5G Key Technologies for Smart Railways	108	6	https://ieeexplore.ieee.org/document/9103348
Towards Robust Pattern Recognition: A Review	108	6	https://ieeexplore.ieee.org/document/9103349
Methodology for Maximizing Information Transmission of Haptic Devices: A Survey	108	6	https://ieeexplore.ieee.org/document/9103350
Acoustic Self-Awareness of Autonomous Systems in a World of Sounds	108	7	https://ieeexplore.ieee.org/document/9040915
Embodied Self-Aware Computing Systems	108	7	https://ieeexplore.ieee.org/document/9042875
Self-Aware Neural Network Systems: A Survey and New Perspective	108	7	https://ieeexplore.ieee.org/document/9045930
Neurobiologically Inspired Self-Monitoring Systems	108	7	https://ieeexplore.ieee.org/document/9057457
Achieving Resiliency and Behavior Assurance in Autonomous Navigation: An Industry Perspective	108	7	https://ieeexplore.ieee.org/document/9058714
Time Series Forecasting for Self-Aware Systems	108	7	https://ieeexplore.ieee.org/document/9069193
Multisensorial Generative and Descriptive Self-Awareness Models for Autonomous Systems	108	7	https://ieeexplore.ieee.org/document/9088273
Synergizing Domain Expertise With Self-Awareness in Software Systems: A Patternized Architecture Guideline	108	7	https://ieeexplore.ieee.org/document/9089006
Self-Aware Swarm Navigation in Autonomous Exploration Missions	108	7	https://ieeexplore.ieee.org/document/9089222
Verifiable Self-Aware Agent-Based Autonomous Systems	108	7	https://ieeexplore.ieee.org/document/9094672
Self-Aware Networks That Optimize Security, QoS, and Energy	108	7	https://ieeexplore.ieee.org/document/9103525
The Heterogeneous Deep Neural Network Processor With a Non-von Neumann Architecture	108	8	https://ieeexplore.ieee.org/document/8653908
Tunnel-FET Switching Is Governed by Non-Lorentzian Spectral Line Shape	108	8	https://ieeexplore.ieee.org/document/8688500
Large-Scale Field-Programmable Analog Arrays	108	8	https://ieeexplore.ieee.org/document/8915721
Challenges and Opportunities of Near-Term Quantum Computing Systems	108	8	https://ieeexplore.ieee.org/document/8936946

Silicon Photonics Codesign for Deep Learning	108	8	https://ieeexplore.ieee.org/document/8988228
From Charge to Spin and Spin to Charge: Stochastic Magnets for Probabilistic Switching	108	8	https://ieeexplore.ieee.org/document/8995804
Magnetic Racetrack Memory: From Physics to the Cusp of Applications Within a Decade	108	8	https://ieeexplore.ieee.org/document/9045991
Addressing Unreliability in Emerging Devices and Non-von Neumann Architectures Using Coded Computing	108	8	https://ieeexplore.ieee.org/document/9093912
Resource-Efficient Quantum Computing by Breaking Abstractions	108	8	https://ieeexplore.ieee.org/document/9116963
A Hierarchical Approach to Multienergy Demand Response: From Electricity to Multienergy Applications	108	9	https://ieeexplore.ieee.org/document/9076178
Flexibility From Distributed Multienergy Systems	108	9	https://ieeexplore.ieee.org/document/9082595
Recent Developments in Machine Learning for Energy Systems Reliability Management	108	9	https://ieeexplore.ieee.org/document/9091534
Modeling and Simulation of Gas Distribution Networks in a Multienergy System Environment	108	9	https://ieeexplore.ieee.org/document/9091563
Optimal Configuration of Power-to-Cool Technology in District Cooling Systems	108	9	https://ieeexplore.ieee.org/document/9103515
Multicarrier Energy Systems: Shaping Our Energy Future	108	9	https://ieeexplore.ieee.org/document/9103958
Integrated Electricity– Heat–Gas Systems: Techno–Economic Modeling, Optimization, and Application to Multienergy	108	9	https://ieeexplore.ieee.org/document/9108286
Smarter Smart District Heating	108	9	https://ieeexplore.ieee.org/document/9112171
Multienergy Networks Analytics: Standardized Modeling, Optimization, and Low Carbon Analysis	108	9	https://ieeexplore.ieee.org/document/9113254
Chance-Constrained Water Pumping to Manage Water and Power Demand Uncertainty in Distribution Networks	108	9	https://ieeexplore.ieee.org/document/9118939
Operations and Long-Term Expansion Planning of Natural-Gas and Power Systems: A Market Perspective	108	9	https://ieeexplore.ieee.org/document/9137108
A Critical Exploration of the Efficiency Impacts of Demand Response From HVAC in Commercial Buildings	108	9	https://ieeexplore.ieee.org/document/9143166
Optimal Capacity Design and Operation of Energy Hub Systems	108	9	https://ieeexplore.ieee.org/document/9151175

An Uncertainty Management Framework for Integrated Gas-Electric Energy	108	9	https://ieeexplore.ieee.org/document/9151977
Systems	400		1 1.
Monotonicity Properties of Physical Network Flows and Application to Robust	108	9	https://ieeexplore.ieee.org/document/9167418
Optimal Allocation			
Software Vulnerability Detection Using Deep Neural Networks: A Survey	108	10	https://ieeexplore.ieee.org/document/9108283
Digital Twin in the IoT Context: A Survey on Technical Features, Scenarios, and Architectural Models	108	10	https://ieeexplore.ieee.org/document/9120192
Microwave Nonreciprocity	108	10	https://ieeexplore.ieee.org/document/9143399
Integrated Nonreciprocal Photonic Devices With Dynamic Modulation	108	10	https://ieeexplore.ieee.org/document/9207994
Time-Varying Convex Optimization: Time-Structured Algorithms and Applications	108	11	https://ieeexplore.ieee.org/document/9133310
Accelerated First-Order Optimization Algorithms for Machine Learning	108	11	https://ieeexplore.ieee.org/document/9146135
Primal–Dual Methods for Large-Scale and Distributed Convex Optimization and Data Analytics	108	11	https://ieeexplore.ieee.org/document/9151295
Decentralized Zeroth-Order Constrained Stochastic Optimization Algorithms:	108	11	https://ieeexplore.ieee.org/document/9170539
Frank–Wolfe and Variants With Applications to Black-Box Adversarial			
Graph Learning Under Partial Observability	108	11	https://ieeexplore.ieee.org/document/9177250
Distributed Optimization, Averaging via ADMM, and Network Topology	108	11	https://ieeexplore.ieee.org/document/9203906
Scaling-Up Distributed Processing of Data Streams for Machine Learning	108	11	https://ieeexplore.ieee.org/document/9206551
Stochastic Quasi-Newton Methods	108	11	https://ieeexplore.ieee.org/document/9207765
Advances in Asynchronous Parallel and Distributed Optimization	108	11	https://ieeexplore.ieee.org/document/9217472
Variance-Reduced Methods for Machine Learning	108	11	https://ieeexplore.ieee.org/document/9226504
Distributed Optimization for Robot Networks: From Real-Time Convex Optimization	108	11	https://ieeexplore.ieee.org/document/9241495
to Game-Theoretic Self-Organization	400		1
A General Framework for Decentralized Optimization With First-Order Methods	108	11	https://ieeexplore.ieee.org/document/9241497

Elementary Functions and Approximate Computing	108	12	https://ieeexplore.ieee.org/document/9106347
A Survey of Testing Techniques for Approximate Integrated Circuits	108	12	https://ieeexplore.ieee.org/document/9122397
Resistive Crossbars as Approximate Hardware Building Blocks for Machine Learning: Opportunities and Challenges	108	12	https://ieeexplore.ieee.org/document/9141337
Approximate Arithmetic Circuits: A Survey, Characterization, and Recent Applications	108	12	https://ieeexplore.ieee.org/document/9165786
Approximate Logic Synthesis: A Survey	108	12	https://ieeexplore.ieee.org/document/9170586
Circuit-Level Techniques for Logic and Memory Blocks in Approximate Computing Systemsx	108	12	https://ieeexplore.ieee.org/document/9205193
Security in Approximate Computing and Approximate Computing for Security: Challenges and Opportunities	108	12	https://ieeexplore.ieee.org/document/9244148
Deep In-Memory Architectures in SRAM: An Analog Approach to Approximate Computing	108	12	https://ieeexplore.ieee.org/document/9252843
Efficient Al System Design With Cross-Layer Approximate Computing	108	12	https://ieeexplore.ieee.org/document/9253640
A Comprehensive Survey on Transfer Learning	109	1	https://ieeexplore.ieee.org/document/9134370
In-memory Learning with Analog Resistive Switching Memory: A Review and Perspective	109	1	https://ieeexplore.ieee.org/document/9138706
Radiofrequency Switches Based on Emerging Resistive Memory Technologies - A Survey	109	1	https://ieeexplore.ieee.org/document/9162443
Far-Field Automatic Speech Recognition	109	2	https://ieeexplore.ieee.org/document/9189820
A Survey of Test and Reliability Solutions for Magnetic Random Access Memories	109	2	https://ieeexplore.ieee.org/document/9240959
Multidimensional Index Modulation for 5G and Beyond Wireless Networks	109	2	https://ieeexplore.ieee.org/document/9288847
A Survey of Powertrain Technologies for Energy-Efficient Heavy-Duty Machinery	109	3	https://ieeexplore.ieee.org/document/9337910
Explaining Deep Neural Networks and Beyond: A Review of Methods and Applications	109	3	https://ieeexplore.ieee.org/document/9369420
A Survey of Cybersecurity of Digital Manufacturing	109	4	https://ieeexplore.ieee.org/document/9247392

A Methodology for Digital Twin Modeling and Deployment for Industry 4.0	109	4	https://ieeexplore.ieee.org/document/9247401
Wireless Control for Smart Manufacturing: Recent Approaches and Open Challenges	109	4	https://ieeexplore.ieee.org/document/9264637
Artificial-Intelligence-Driven Customized Manufacturing Factory: Key Technologies, Applications, and Challenges	109	4	https://ieeexplore.ieee.org/document/9266587
A Unified Architectural Approach for Cyberattack-Resilient Industrial Control Systems	109	4	https://ieeexplore.ieee.org/document/9266775
A Platform Programming Paradigm for Heterogeneous Systems Integration	109	4	https://ieeexplore.ieee.org/document/9268460
Six-Sigma Quality Management of Additive Manufacturing	109	4	https://ieeexplore.ieee.org/document/9272610
Wireless Networked Multirobot Systems in Smart Factories	109	4	https://ieeexplore.ieee.org/document/9272626
A Connective Framework to Support the Lifecycle of Cyber–Physical Production Systems	109	4	https://ieeexplore.ieee.org/document/9321473
(Re)deployment of Smart Algorithms in Cyber–Physical Production Systems Using DSL4hDNCS	109	4	https://ieeexplore.ieee.org/document/9335970
Optimizing Quality Inspection and Control in Powder Bed Metal Additive Manufacturing: Challenges and Research Directions	109	4	https://ieeexplore.ieee.org/document/9347446
Manufacturing as a Data-Driven Practice: Methodologies, Technologies, and Tools	109	4	https://ieeexplore.ieee.org/document/9353852
Learning-Based Automation of Robotic Assembly for Smart Manufacturing	109	4	https://ieeexplore.ieee.org/document/9383829
Toward an Electromagnetic Event Resilient Grid	109	4	https://ieeexplore.ieee.org/document/9386168
Mad Max: Affine Spline Insights Into Deep Learning	109	5	https://ieeexplore.ieee.org/document/9296823
Brain-Inspired Learning on Neuromorphic Substrates	109	5	https://ieeexplore.ieee.org/document/9317744
Computational Media Intelligence: Human-Centered Machine Analysis of Media	109	5	https://ieeexplore.ieee.org/document/9319168
Mathematical Models of Overparameterized Neural Networks	109	5	https://ieeexplore.ieee.org/document/9326403
Generative Adversarial Networks for Image and Video Synthesis: Algorithms and Applications	109	5	https://ieeexplore.ieee.org/document/9343694

A Unifying Review of Deep and Shallow Anomaly Detection	109	5	https://ieeexplore.ieee.org/document/9347460
Optimism in the Face of Adversity: Understanding and Improving Deep Learning Through Adversarial Robustness	109	5	https://ieeexplore.ieee.org/document/9348948
Graph Neural Networks: Architectures, Stability, and Transferability	109	5	https://ieeexplore.ieee.org/document/9356126
Communication-Efficient and Distributed Learning Over Wireless Networks: Principles and Applications	109	5	https://ieeexplore.ieee.org/document/9357490
A Review of Deep Learning in Medical Imaging: Imaging Traits, Technology Trends, Case Studies With Progress Highlights, and Future Promises	109	5	https://ieeexplore.ieee.org/document/9363915
Toward Causal Representation Learning	109	5	https://ieeexplore.ieee.org/document/9363924
Tropical Geometry and Machine Learning	109	5	https://ieeexplore.ieee.org/document/9394420
Advancing Neuromorphic Computing With Loihi: A Survey of Results and Outlook	109	5	https://ieeexplore.ieee.org/document/9395703
Tensor Methods in Computer Vision and Deep Learning	109	5	https://ieeexplore.ieee.org/document/9420085
Reliability of Power Electronic Systems for EV/HEV Applications	109	6	https://ieeexplore.ieee.org/document/9250437
Electric Vehicles for Smart Buildings: A Survey on Applications, Energy Management Methods, and Battery Degradation	109	6	https://ieeexplore.ieee.org/document/9288750
A Critical Review of Advanced Electric Machines and Control Strategies for Electric Vehicles	109	6	https://ieeexplore.ieee.org/document/9290029
Hybrid and Electric Vehicle (HEV/EV) Technologies for Off-Road Applications	109	6	https://ieeexplore.ieee.org/document/9311805
Electric Drive Technology Trends, Challenges, and Opportunities for Future Electric Vehicles	109	6	https://ieeexplore.ieee.org/document/9316773
Status and Gap in Rechargeable Lithium Battery Supply Chain: Importance of Quantitative Failure Analysis	109	6	https://ieeexplore.ieee.org/document/9328511
Toward Holistic Energy Management Strategies for Fuel Cell Hybrid Electric Vehicles in Heavy-Duty Applications	109	6	https://ieeexplore.ieee.org/document/9351980
Revolution of Electric Vehicle Charging Technologies Accelerated by Wide Bandgap Devices	109	6	https://ieeexplore.ieee.org/document/9415531
Electric/Hybrid-Electric Aircraft Propulsion Systems	109	6	https://ieeexplore.ieee.org/document/9419369

State of the Art and Trends in Electric and Hybrid Electric Vehicles	109	6	https://ieeexplore.ieee.org/document/9422914
6G Wireless Systems: Vision, Requirements, Challenges, Insights, and Opportunities	109	7	https://ieeexplore.ieee.org/document/9390169
Wide Bandgap DC–DC Converter Topologies for Power Applications	109	7	https://ieeexplore.ieee.org/document/9418626
Distributed Deep Learning for Remote Sensing Data Interpretation	109	8	https://ieeexplore.ieee.org/document/9378798
Parallel and Distributed Computing for Anomaly Detection From Hyperspectral Remote Sensing Imagery	109	8	https://ieeexplore.ieee.org/document/9432397
Distributed Fusion of Heterogeneous Remote Sensing and Social Media Data: A Review and New Developments	109	8	https://ieeexplore.ieee.org/document/9438067
Spintronics for Energy- Efficient Computing: An Overview and Outlook	109	8	https://ieeexplore.ieee.org/document/9452065
Recent Developments in Parallel and Distributed Computing for Remotely Sensed Big Data Processing	109	8	https://ieeexplore.ieee.org/document/9458233
Review of Nanocomposite Dielectric Materials With High Thermal Conductivity	109	8	https://ieeexplore.ieee.org/document/9464768
Developments in International Video Coding Standardization After AVC, With an Overview of Versatile Video Coding (VVC)	109	9	https://ieeexplore.ieee.org/document/9328514
A Technical Overview of AV1	109	9	https://ieeexplore.ieee.org/document/9363937
Advances in Video Compression System Using Deep Neural Network: A Review and Case Studies	109	9	https://ieeexplore.ieee.org/document/9369668
MPEG Immersive Video Coding Standard	109	9	https://ieeexplore.ieee.org/document/9374648
An Overview of Omnidirectional MediA Format (OMAF)	109	9	https://ieeexplore.ieee.org/document/9380215
JPEG XS—A New Standard for Visually Lossless Low-Latency Lightweight Image Coding	109	9	https://ieeexplore.ieee.org/document/9443088
MPEG Standards for Compressed Representation of Immersive Audio	109	9	https://ieeexplore.ieee.org/document/9444109
An Introduction to MPEG-G: The First Open ISO/IEC Standard for the Compression and Exchange of Genomic Sequencing Data	109	9	https://ieeexplore.ieee.org/document/9455132
Compression of Sparse and Dense Dynamic Point Clouds—Methods and Standards	109	9	https://ieeexplore.ieee.org/document/9457097

Hardware Acceleration of Sparse and Irregular Tensor Computations of ML Models: A Survey and Insights	109	10	https://ieeexplore.ieee.org/document/9507542
An Overview of Signal Processing Techniques for Terahertz Communications	109	10	https://ieeexplore.ieee.org/document/9514889
Birth of the First Ruby Laser in China [Scanning Our Past]	109	10	https://ieeexplore.ieee.org/document/9521961
A Survey of Millimeter-Wave Communication: Physical-Layer Technology Specifications and Enabling Transmission Technologies	109		https://ieeexplore.ieee.org/document/9540882
Swedish Cryptology I [Scanning Our Past]	109	11	https://ieeexplore.ieee.org/document/9519719
Video Summarization Using Deep Neural Networks: A Survey	109	11	https://ieeexplore.ieee.org/document/9594911
Edge Intelligence: Empowering Intelligence to the Edge of Network	109	11	https://ieeexplore.ieee.org/document/9596610
Extraction and Utilization of Excitation Information of Speech: A Review	109	12	https://ieeexplore.ieee.org/document/9628174
Building In-the-Cloud Network Functions: Security and Privacy Challenges	109	12	https://ieeexplore.ieee.org/document/9645060
Scanning Our Past: Spies, Brokers, and the State: Intelligence Operations and the Polish Computer Industry in the 1980s	110	1	https://ieeexplore.ieee.org/document/9519662
Intelligent Reflecting Surface-Aided Wireless Energy and Information Transmission: An Overview	110	1	https://ieeexplore.ieee.org/document/9610992
Advances in Wirelessly Powered Backscatter Communications: From Antenna/RF Circuitry Design to Printed Flexible Electronics	110	1	https://ieeexplore.ieee.org/document/9614657
Secure Wirelessly Powered Networks at the Physical Layer: Challenges, Countermeasures, and Road Ahead	110	1	https://ieeexplore.ieee.org/document/9626612
Metamaterials and Metasurfaces for Wireless Power Transfer and Energy Harvesting	110	1	https://ieeexplore.ieee.org/document/9627147
Far-Field Wireless Power Harvesting: Nonlinear Modeling, Rectenna Design, and Emerging Applications	110	1	https://ieeexplore.ieee.org/document/9628167
Design and Analysis of SWIPT With Safety Constraints	110	1	https://ieeexplore.ieee.org/document/9633129
Adaptive Wireless Power Transfer and Backscatter Communication for Perpetual Operation of Wireless Brain–Computer Interfaces	110	1	https://ieeexplore.ieee.org/document/9646246
Foundations of Wireless Information and Power Transfer: Theory, Prototypes, and Experiments	110	1	https://ieeexplore.ieee.org/document/9675011

110	1	https://ieeexplore.ieee.org/document/9675014
110	2	https://ieeexplore.ieee.org/document/9686045
440		http://ica.com/cmcica.com/dccom/c0000000
110	2	https://ieeexplore.ieee.org/document/9686052
110	2	https://ieeexplore.ieee.org/document/9703109
110	3	https://ieeexplore.ieee.org/document/9711918
110	3	https://ieeexplore.ieee.org/document/9733047
110	3	https://ieeexplore.ieee.org/document/9733049
110	4	https://ieeexplore.ieee.org/document/9733178
110	4	https://ieeexplore.ieee.org/document/9737132
110	4	https://ieeexplore.ieee.org/document/9747966
110	5	https://ieeexplore.ieee.org/document/9642253
110	5	https://ieeexplore.ieee.org/document/9667097
110	5	https://ieeexplore.ieee.org/document/9670449
110	5	https://ieeexplore.ieee.org/document/9698853
110	5	https://ieeexplore.ieee.org/document/9740437
110	5	https://ieeexplore.ieee.org/document/9751701
110	5	https://ieeexplore.ieee.org/document/9758042
110	5	https://ieeexplore.ieee.org/document/9762556
	110 110 110 110 110 110 110 110 110 110	110 2 110 2 110 3 110 3 110 3 110 4 110 4 110 5 110 5 110 5 110 5 110 5

Spiking Control Systems	110	5	https://ieeexplore.ieee.org/document/9764708
Learning Outside the Brain: Integrating Cognitive Science and Systems Biology	110	5	https://ieeexplore.ieee.org/document/9764721
Cybergenetics: Theory and Applications of Genetic Control Systems	110	5	https://ieeexplore.ieee.org/document/9779327
A Comprehensive Review on Signal-Based and Model-Based Condition Monitoring of Wind Turbines: Fault Diagnosis and Lifetime Prognosis	110	6	https://ieeexplore.ieee.org/document/9774410
6G for Vehicle-to-Everything (V2X) Communications: Enabling Technologies, Challenges, and Opportunities	110	6	https://ieeexplore.ieee.org/document/9779322
A Review of Second-Life Lithium-Ion Batteries for Stationary Energy Storage Applications	110	6	https://ieeexplore.ieee.org/document/9788509
Continuum Robots for Medical Interventions	110	7	https://ieeexplore.ieee.org/document/9707607
Robot-Assisted Medical Imaging: A Review	110	7	https://ieeexplore.ieee.org/document/9756910
Magnetically Actuated Medical Robots: An in vivo Perspective	110	7	https://ieeexplore.ieee.org/document/9764710
Soft Robot-Assisted Minimally Invasive Surgery and Interventions: Advances and Outlook	110	7	https://ieeexplore.ieee.org/document/9765966
State of the Art and Future Opportunities in MRI-Guided Robot-Assisted Surgery and Interventions	110	7	https://ieeexplore.ieee.org/document/9767198
Robotic Assistance for Intraocular Microsurgery: Challenges and Perspectives	110	7	https://ieeexplore.ieee.org/document/9771085
Image-Guided Interventional Robotics: Lost in Translation?	110	7	https://ieeexplore.ieee.org/document/9777771
Advancement of Flexible Robot Technologies for Endoluminal Surgeries	110	7	https://ieeexplore.ieee.org/document/9779312
Haptic Feedback and Force-Based Teleoperation in Surgical Robotics	110	7	https://ieeexplore.ieee.org/document/9805573
Concepts and Trends in Autonomy for Robot-Assisted Surgery	110	7	https://ieeexplore.ieee.org/document/9805576
Robot-Assisted Minimally Invasive Surgery—Surgical Robotics in the Data Age	110	7	https://ieeexplore.ieee.org/document/9805581
Transfer Learning for Wireless Networks: A Comprehensive Survey	110	8	https://ieeexplore.ieee.org/document/9789336

A Perspective on Time Toward Wireless 6G	110	8	https://ieeexplore.ieee.org/document/9834918
Reconfigurable Intelligent Surfaces: Simplified-Architecture	110	9	https://ieeexplore.ieee.org/document/9769689
Transmitters—From Theory to Implementations			
Backscatter Communication Assisted by Reconfigurable Intelligent Surfaces	110	9	https://ieeexplore.ieee.org/document/9769767
Software-Defined Reconfigurable Intelligent Surfaces: From Theory to End-to-End Implementation	110	9	https://ieeexplore.ieee.org/document/9769768
MIMO Evolution Beyond 5G Through Reconfigurable Intelligent Surfaces and Fluid Antenna Systems	110	9	https://ieeexplore.ieee.org/document/9770295
Channel Estimation With Reconfigurable Intelligent Surfaces—A General Framework	110	9	https://ieeexplore.ieee.org/document/9771077
Intelligent Reflecting Surface-Aided Wireless Networks: From Single-Reflection to Multireflection Design and Optimization	110	9	https://ieeexplore.ieee.org/document/9771079
Nonterrestrial Communications Assisted by Reconfigurable Intelligent Surfaces	110	9	https://ieeexplore.ieee.org/document/9772693
Toward Ubiquitous Sensing and Localization With Reconfigurable Intelligent Surfaces	110	9	https://ieeexplore.ieee.org/document/9775078
A State-of-the-Art Survey on Reconfigurable Intelligent Surface-Assisted Non-Orthogonal Multiple Access Networks	110	9	https://ieeexplore.ieee.org/document/9779790
Theory, Analysis, and Design of Metasurfaces for Smart Radio Environments	110	9	https://ieeexplore.ieee.org/document/9781802
Reconfigurable Intelligent Surfaces: Channel Characterization and Modeling	110	9	https://ieeexplore.ieee.org/document/9828501
Wavefront Shaping for Wireless Communications in Complex Media: From Time Reversal to Reconfigurable Intelligent Surfaces	110	9	https://ieeexplore.ieee.org/document/9829750
Communication Models for Reconfigurable Intelligent Surfaces: From Surface Electromagnetics to Wireless Networks Optimization	110	9	https://ieeexplore.ieee.org/document/9864116
Pervasive Machine Learning for Smart Radio Environments Enabled by Reconfigurable Intelligent Surfaces	110	9	https://ieeexplore.ieee.org/document/9864655
Survey on Fully Homomorphic Encryption, Theory, and Applications	110	10	https://ieeexplore.ieee.org/document/9910347
Vector Symbolic Architectures as a Computing Framework for Emerging Hardware	110	10	https://ieeexplore.ieee.org/document/9921397
Scaling Optical Interconnects for Hyperscale Data Center Networks	110	11	https://ieeexplore.ieee.org/document/9793366

Randomly-Coupled Multi-Core Fiber Technology	110	11	https://ieeexplore.ieee.org/document/9803819
Flexible Technologies to Increase Optical Network Capacity	110	11	https://ieeexplore.ieee.org/document/9833809
Challenges in Estimating the Information Capacity of the Fiber-Optic Channel	110	11	https://ieeexplore.ieee.org/document/9866733
Using Global Existing Fiber Networks for Environmental Sensing	110	11	https://ieeexplore.ieee.org/document/9881563
Ultrawideband Systems and Networks: Beyond C + L-Band	110	11	https://ieeexplore.ieee.org/document/9893169
Weakly Coupled Multicore Fiber Technology, Deployment, and Systems	110	11	https://ieeexplore.ieee.org/document/9893206
Devices and Fibers for Ultrawideband Optical Communications	110	11	https://ieeexplore.ieee.org/document/9896830
Ultrahigh Fiber Count and High-Density Cables, Deployments, and Systems	110	11	https://ieeexplore.ieee.org/document/9896882
Few-Mode Fiber Technology, Deployments, and Systems	110	11	https://ieeexplore.ieee.org/document/9906979
Photonic Lanterns, 3-D Waveguides, Multiplane Light Conversion, and Other Components That Enable Space-Division Multiplexing	110	11	https://ieeexplore.ieee.org/document/9916270
Optical Switching in Future Fiber-Optic Networks Utilizing Spectral and Spatial Degrees of Freedom	110	11	https://ieeexplore.ieee.org/document/9931678
Coherent Optical Transceivers Scaling and Integration Challenges	110	11	https://ieeexplore.ieee.org/document/9932881
The Role of Parallelism in the Evolution of Optical Fiber Communication Systems	110	11	https://ieeexplore.ieee.org/document/9945692
Application of Distributed Ledger Technology in Distribution Networks	110	12	https://ieeexplore.ieee.org/document/9805829
Plug-and-Play Algorithms for the Efficient Coordination of Active Distribution Grids	110	12	https://ieeexplore.ieee.org/document/9815453
Energy-Circuit-Based Integrated Energy Management System: Theory, Implementation, and Application	110	12	https://ieeexplore.ieee.org/document/9945644
On an Information and Control Architecture for Future Electric Energy Systems	110	12	https://ieeexplore.ieee.org/document/9951598
Land Cover Change Detection With Heterogeneous Remote Sensing Images: Review, Progress, and Perspective	110	12	https://ieeexplore.ieee.org/document/9955391