

- **AICT 2020**, The Sixteenth
- Advanced International Conference on Telecommunications
- **ICIW 2020**, The Fifteenth International Conference on Internet and Web Applications and Services ICIMP 2020, The Fifteenth
- International Conference on Internet Monitoring and Protection • **SMART 2020**, The Ninth International Conference on
- Smart Cities, Systems, Devices and Technologies IMMM 2020, The Tenth International Conference on
- Advances in Information Mining and Management **INFOCOMP 2020**, The Tenth International Conference on
- Advanced Communications and Computation • MOBILITY 2020, The Tenth International Conference on
- Mobile Services, Resources, and Users • **SPWID 2020**, The Sixth International Conference on Smart Portable, Wearable,

Implantable and Disabilityoriented Devices and Systems

ACCSE 2020, The Fifth International Conference on Advances in Computation, Communications and Services

InfoSys 2020 Congress September 27, 2020 to October 01, 2020 - Lisbon, Portugal

- ICNS 2020, The Sixteenth International Conference on
- Networking and Services • ICAS 2020, The Sixteenth International Conference on **Autonomic and Autonomous** Systems
- International Conference on Smart Grids, Green Communications and IT Energyaware Technologies

WEB 2020, The Eighth

International Conference on

ENERGY 2020, The Tenth

- Building and Exploring Web **Based Environments DBKDA 2020**, The Twelfth International Conference on Advances in Databases, Knowledge, and Data
- **Applications** SIGNAL 2020, The Fifth International Conference on Advances in Signal, Image and
- Video Processing BIOTECHNO 2020, The Twelfth International Conference on Bioinformatics, Biocomputational Systems and

SoftNet 2020 Congress October 18, 2020 to October 22, 2020 -Porto, Portugal

Biotechnologies

- **ICSEA 2020**, The Fifteenth
 - International Conference on Software Engineering Advances ICSNC 2020, The Fifteenth
 - International Conference on Systems and Networks Communications CENTRIC 2020, The Thirteenth
 - International Conference on Advances in Human-oriented and Personalized Mechanisms, Technologies, and Services VALID 2020, The Twelfth International Conference on Advances in System Testing and Validation Lifecycle
 - SIMUL 2020, The Twelfth International Conference on Advances in System Simulation **SOTICS 2020**, The Tenth
 - International Conference on Social Media Technologies, Communication, and Informatics **INNOV 2020**, The Ninth
 - International Conference on Communications, Computation, Networks and Technologies **HEALTHINFO 2020**, The Fifth International Conference on Informatics and Assistive

Technologies for Health-Care, Medical Support and Wellbeing

InfoWare 2020 Congress October 18, 2020 to October 22, 2020 -Porto, Portugal

ICCGI 2020, The Fifteenth International Multi-Conference

> on Computing in the Global Information Technology

- **ICWMC 2020**, The Sixteenth International Conference on Wireless and Mobile Communications
- **VEHICULAR 2020**, The Ninth International Conference on Advances in Vehicular Systems, Technologies and Applications
- **INTERNET 2020**, The Twelfth International Conference on **Evolving Internet** • COLLA 2020, The Tenth
- International Conference on Advanced Collaborative Networks, Systems and **Applications**
- **INTELLI 2020**, The Ninth International Conference on Intelligent Systems and **Applications**
- VISUAL 2020, The Fifth International Conference on Applications and Systems of
- Visual Paradigms HUSO 2020, The Sixth International Conference on

Human and Social Analytics BRAININFO 2020, The Fifth

International Conference on Neuroscience and Cognitive Brain Information

October 25, 2020 to October 29, 2020 -Nice, France **UBICOMM 2020**, The

NexTech 2020 Congress

- Fourteenth International Conference on Mobile Ubiquitous Computing, Systems, Services and
- Technologies ADVCOMP 2020, The Fourteenth International Conference on Advanced
- Applications in Sciences **SEMAPRO 2020**, The Fourteenth International Conference on Advances in

Engineering Computing and

AMBIENT 2020, The Tenth International Conference on Ambient Computing, Applications, Services and

Semantic Processing

- Technologies **EMERGING 2020**, The Twelfth International Conference on Emerging Networks and
- Systems Intelligence **DATA ANALYTICS 2020**, The Ninth International Conference on Data Analytics
- **GLOBAL HEALTH 2020**, The Ninth International Conference on Global Health Challenges **CYBER 2020**, The Fifth
- Cyber-Technologies and Cyber-Systems ComputationWorld 2020 Congress

International Conference on

Nice, France **SERVICE COMPUTATION 2020**, The Twelfth International Conference on Advanced

October 25, 2020 to October 29, 2020 -

- Service Computing **CLOUD COMPUTING 2020**, The Eleventh International Conference on Cloud
- Computing, GRIDs, and Virtualization **FUTURE COMPUTING 2020**, The Twelfth International
- Conference on Future Computational Technologies and Applications **COGNITIVE 2020**, The Twelfth
- International Conference on Advanced Cognitive Technologies and Applications **ADAPTIVE 2020**, The Twelfth

International Conference on

- Adaptive and Self-Adaptive Systems and Applications **CONTENT 2020**, The Twelfth International Conference on
- Creative Content Technologies PATTERNS 2020, The Twelfth International Conference on
- Applications **COMPUTATION TOOLS 2020**, The Eleventh International Conference on Computational

Logics, Algebras, Programming,

Pervasive Patterns and

Tools, and Benchmarking **BUSTECH 2020**, The Tenth International Conference on Business Intelligence and Technology NetWare 2020 Congress

2020 - Valencia, Spain SENSORCOMM 2020, The Fourteenth International

November 15, 2020 to November 19,

- Conference on Sensor Technologies and Applications SENSORDEVICES 2020, The Eleventh International
- Conference on Sensor Device Technologies and Applications **SECURWARE 2020**, The Fourteenth International
- Conference on Emerging Security Information, Systems and Technologies **AFIN 2020**, The Twelfth
- Advances in Future Internet **CENICS 2020**, The Thirteenth International Conference on Advances in Circuits, Electronics

International Conference on

- and Micro-electronics **ICQNM 2020**, The Fourteenth International Conference on
- Quantum, Nano/Bio, and Micro Technologies FASSI 2020, The Sixth
- International Conference on Fundamentals and Advances in Software Systems Integration **GREEN 2020**, The Fifth

International Conference on Green Communications,

Computing and Technologies DigitalWorld 2020 Congress November 21, 2020 to November 25, 2020 - Valencia, Spain

- **ICDS 2020**, The Fourteenth International Conference on Digital Society
 - International Conference on Advances in Computer-Human Interactions

ACHI 2020, The Thirteenth

- **GEOProcessing 2020**, The Twelfth International
- Conference on Advanced Geographic Information Systems, Applications, and Services
- eTELEMED 2020, The Twelfth International Conference on eHealth, Telemedicine, and Social Medicine
- eLmL 2020, The Twelfth International Conference on Mobile, Hybrid, and On-line
- Learning • **eKNOW 2020**, The Twelfth International Conference on Information, Process, and
- Knowledge Management • **ALLSENSORS 2020**, The Fifth
- Metering and Sensing **SMART ACCESSIBILITY**
- International Conference on Advances in Sensors, Actuators,

2020, The Fifth International Conference on Universal Accessibility in the Internet of Things and Smart Environments

SERVICES - CONTACT

Think Wind

submission deadline: January 19, 2021 ThinkMind // DATA ANALYTICS 2015, The Fourth International

April 18 - 22, 2021 - Porto, Portugal

Conference on Data Analytics // View article data_analytics_2015_1_30_60157

Space Race 2.0: Expanding Global Internet Accessibility

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Abstract:

In this paper, we examine cyber electromagnetic activities and avenues for expanding Internet accessibility. Delivering fast and reliable Internet access to people, whose physical isolation precludes connectivity by wires and other traditional means, is challenging. In response, key industry players are racing to take on this challenge both with serious financial backing as well as their own methodologies for creating a more accessible global Internet. However, each approach must overcome its own set of technological hurdles. By way of example, satellites can deliver Internet access to sparsely populated areas, but the cost of using satellite data connections can be very high. Drones, in comparison, can reach those customers at a much lower cost. Yet, both platforms rely on the Ku-band, which is essentially saturated during the day and thereby subject to low throughput and long delays. Even if satellites and drones utilize another part of the electromagnetic spectrum, such as Ka-band, rain fade remains a persistent problem. Highaltitude planes that fly above commercial airlines and the weather can utilize lasers, which are at the cutting edge of connectivity research for their incredible accuracy and high throughput; however, laser beams get scattered by clouds. Finally, the challenges of keeping a network of balloons — that are traveling on the edge of space — on course and without leaking are plentiful. The main technological challenge to the underpinning mesh network backbone is the frequency of power outages that disrupt the network. In any case, the next generation Generativity Principle holds promise not only for optimizing the flow of data throughout the Internet, but also

for maximizing the primary infrastructure of Internet access.

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