

The Eleventh International Conference on Information, Intelligence, Systems and Applications (IISA 2020) http://www.easyconferences.eu/iisa2020

15-17 July 2020

automation, robotics, optimization, image, speech and natural languages, and their integration.

University of Piraeus

Piraeus-Athens, Greece

Technologies, Protocols and Applications are emerging.

SCOPE: TOPICS OF INTEREST INCLUDE, BUT ARE NOT LIMITED TO:

Track I: Information Processing and Intelligence

Information and data management

Data mining and knowledge extraction

Processing of Social and Emotional Interactions

Evolutionary computing and genetic algorithms

Kernel methods - support vector machines

Emerging machine learning paradigms

Expert systems & intelligent agents

Biological and artificial neural networks

Biological and artificial immune systems

Advances in databases

Information systems

Recommender systems

Cognitive science

Computational biology

Neuroscience

DNA computing

Bavesian networks

Swarm intelligence

Ensemble classifiers

Decision making techniques

Knowledge-based systems

Robotics and automation

Ambient-ubiquitous intelligence

Fuzzy logic systems

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Digital rights management



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IISA STEERING COMMITTEE

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THE VENUE

IISA 2020 will take place in Piraeus-Athens, the capital and main port of Greece. Greece offers top quality tourist attractions to over 25 million international visitors every year. Athens, the capital and main point of entry to Greece, is home to ten major Universities which educate a total population of over 70,000 students. The conference will consist of keynote talks, oral and poster presentations, invited sessions and workshops, on the applications and theory of intelligent interactive multimedia systems and services and related areas. It will provide excellent opportunities for the presentation of interesting new research results and discussion about them, leading to cross-fertilization, knowledge transfer and generation of new ideas.

IMPORTANT DATES

Invited sessions/workshop & tutorial proposals: March 15, 2019 Paper submission: April 15, 2019 Author notification: May 15, 2019

Camera-ready paper submission: May 31, 2019

INFORMATION CONTACT

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IISA-2020 is the eleventh conference in the IISA series, technically co-sponsored by IEEE (approval pending), the University of Piraeus and the University of Thessaly. IISA-2020 Proceedings will be published in IEEE Explore (approval pending). The conference is intended to become an international forum for researchers and professionals in all areas of Information, Intelligence, Systems and Applications. We invite submissions of papers presenting high-quality original research and developments for the conference tracks listed below. The conference will last for three days and will feature tutorials, technical paper presentations, workshops, and distinguished keynote speeches. In IISA-2020, the Biological & Artificial Intelligence Foundation will give best student-paper awards.

- Affective computing Track II: Multimedia Systems and Networks
- Advances in multimedia processing
- Signal mining
- Signal visualization
- Human-machine interaction
- Multimodal systems
- Multimedia systems Autonomous Computing
- Distributed computing
- Quantum computing
- Mobile computing
- Green computing

- Trusted computing
- Proactive computing
- Cloud computing
- Ubiquitous computing
- Networking
- Sensing, sensory systems and sensor networks

Information is widely available and accessible, but frequently leads to information overload and overexposure, while the effort for coding, storing, hiding, securing,

transmitting and retrieving it may be excessive. Intelligence is required to manage information and extract knowledge from it, inspired by biological and other

paradigms. Multimedia Systems and Networks, with an increasing level of Intelligence, are being developed that incorporate these advances. As a result, new

The International Conference on Information, Intelligence, Systems and Applications (IISA) series offers a forum for the constructive interaction and prolific exchange of ideas among scientists and practitioners from different research fields - such as computers, mathematics, physics, biology, medicine, chemistry,

experimental psychology, social sciences, linguistics, and engineering - having the goal of developing methodologies and tools for the solution of complex problems in

artificial intelligence, biology, neuroscience, security, monitoring, surveillance, healthcare, sustainability in energy sources, governance, education, commerce,

- Design and implementation
- Real time systems

Track III: Educational Informatics

- Adaptive and personalized learning
- Student modeling
- Intelligent tutoring systems
- E-learning and mobile learning
- Social media and learning
- Educational games
- Computer-supported collaborative learning
- Big data in education and learning analytics
- Smart learning environments
- Virtual and augmented reality in education
- · Risk management in education
 - Learning management systems
 - Content management systems
- Learning technologies for students with special needs

Track IV: Cyber Security

- Watermarking, cryptography/analysis, steganography/analysis
- Privacy and authentication
- Malicious software analysis
- Information, computer and network security
- Infrastructure security
- Forensics

Extended versions of selected papers will be published in related special issues of the International Journal on AI Tools (IJAIT, World Scientific), the Intelligent Decision Technologies Journal (IDT, IOS Press) and the International Journal on Computational Intelligence Studies (IJCIStudies, Inderscience).

Biometrics

Track V: Smart Energy and Smart Cities

 Assessment of the energy status in smart cities Intelligent sensors and data analytics for energy optimization

· Monitoring and control of energy resources

- Smart grid
- Fault detection
- Decision support systems in energy planning and scheduling
- Middleware for urban computing
- Intelligent transportation systems
- Public displays for modern cities
- Impact of urban computing in modern cities
- · Case studies and best practices
- Big city data
- Culture for smart cities

Track VI: Healthcare

- E-health, mobile health and smart health
- Infrastructure for smart health
- Advanced wearable devices and robotics for smart health
- Ambient intelligence in assisted living Health information systems
- Healthcare management
- Case studies

Track VII: Applications

- E-government and m-government
- E-commerce and m-commerce
- E-entertainment and m-entertainment
- E-legal and m-legal services
- Personalized systems and services Enabling technologies, frameworks and standards
- Empirical evaluations
- Simulation and evaluation via simulation
- Case studies

management

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 Applications in culture and heritage Applications in natural resource

· Applications in disabilities and to people at

Applications in tourism