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THE VENUE

IISA 2015 is held on grounds of the Ionian University on the Greek island of Corfu. Corfu is the northernmost of the Ionian Islands in Greece. Located on the far northwest coast of the country, Corfu lies in the Adriatic sea, east of Italy and southwest of Albania. Historically, Corfu has been controlled by many foreign powers, notably the Venetians, the French, and the British. Corfu is often described as *magnificent* and is well known for its tradition in culture, natural landscapes and sunny beaches, historical and religious sites, and lively entertainment style.

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 **Technologies, Protocols and Applications** are emerging.

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

IISA-2015 is the sixth conference in the IISA series, technically co-sponsored by IEEE, BAIF, the University of Piraeus, and Ionian University. IISA-2015 Proceedings will be published by IEEE. The conference is intended as 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. **IISA-2015 will give best student-paper awards.**

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

Track I: Information Processing, Coding, Storing, Hiding, Transmission, Security, and Retrieval

- Source coding and channel coding
- Data compression
- Databases
- Watermarking, cryptography, cryptanalysis, steganography, and steganalysis
- Privacy and authentication
- Information, computer and network security
- Malicious software analysis
- Forensics
- Biometrics
- Information systems
- Information and data management
- Data mining, warehousing and knowledge extraction
- Digital rights management
- Processing of Social and Emotional Interactional Exchanges

Track II: Biological and Computational Intelligence

- Biological and artificial neural networks
- Biological and artificial immune systems
- Cognitive science
- Neuroscience
- Computational biology
- DNA computing
- Evolutionary computing and genetic algorithms
- Bayesian networks
- Expert systems & intelligent agents
- Swarm intelligence-based processing
- Fuzzy logic systems
- Kernel methods - support vector machines
- Ensemble classifiers
- Emerging machine learning paradigms
- Decision making techniques
- Ambient-ubiquitous intelligence
- Affective computing

Track III: Multimedia Systems and Networks

- Advances in audio/video and multimedia processing

- Signal mining
- Signal visualization
- Human-machine interaction
- Multimodal systems
- Multimedia systems
- Knowledge-based systems
- Autonomous Computing
- Distributed computing
- Quantum computing
- Mobile computing
- Green computing
- Trusted computing
- Proactive computing
- Cloud computing
- Ubiquitous computing
- Urban computing
- Networking
- Sensing, sensory systems and sensor networks
- Robotics and automation
- Design and implementation
- Real time systems

Track IV: Technologies, Protocols and Applications

- E-learning and m-learning
- E-government and m-government
- E-commerce and m-commerce
- E-entertainment and m-entertainment
- E-health and m-health
- E-legal and m-legal services
- Recommender systems
- Personalized systems and services
- Enabling technologies, frameworks and standards
- Empirical evaluations
- Simulation and evaluation via simulation
- Case studies
- Applications in culture and heritage
- Applications in tourism
- Applications in natural resource management
- Applications in disabilities and to people at need

Extended versions of selected papers will be published in related special issues of the International Journal on Monitoring & Surveillance Research Tech (IJMSRT, IGI Global), SpringerPlus (Springer), and the International Journal on Computational Intelligence Studies (IJCIStudies, Inderscience).

Important Dates

Invited session, workshop and tutorial proposals: **Friday February 27, 2015**

Paper submission: **Friday April 17, 2015**

Author notification: **Friday May 15, 2015**

Camera-ready paper submission: **Friday May 29, 2015**

Contact Information

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