## Call for Paper

The 11st International Conference on Robotic Informatics and Intelligence control Technology (RIIT2027) will be hold at **University of Salento, Lecce, Italy on 30-31 March, 2027.** Paper will be solicited in all related areas in Intelligence Automation Control, Robotics Control, Mechatronics and their application, Computer Network, Information Technologies, Modern Production, and Manufacturing System, Computer Control System, Simulation Modeling Systems (including Information Management, Industrial Management, Information for Manufacturing, Logistic and SupplyChain. Proposals for tutorials and workshops, as well as organized/special sessions are also welcome to address the emerging areas and innovative applications of new technologies.

Acceptance of the submitted paper will be based on all kinds of reviewers as double-blind and non-blind reviewers. This will be necessary conditions on full papers or extended abstracts. All of papers will be selected and invited to adapt their papers for publication at International Journals of Frontiers in Computer Science or Frontiers in Robotics and AI. This will also be evaluated as based on the three kinds of reviewing. The conference will be also feature in the following topics in 5 different Tracks.

| Topics | |
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| **Smart Manufacturing, Logistics and Sensing System Track** | |
| **T1** | **Manufacturing and Logistics Control System**<br>Industrial Automation Process, Intelligent Manufacturing System, Manufacturing Control Systems Production Planning and Control, Quality Control and Management, Factory and Automation System Flexible Manufacturing Systems, Power Plant Automation, Grasping & Manipulation, Manufacturin Process Control, Navigation and Guidance, Quality Management System, Supply Chain Planning (SCP). |
| **T2** | **Intelligent Production System and Sensor Technology**<br>Smart Sensors, Proximity Sensors, Vision Sensors/Machine Vision Systems, Photoelectric Sensor, Code Readers, Smart Sustainable Manufacturing, Intelligent Warehouse Management, Smart Manufacturing, Production Monitoring System, Supervisory Control and Data Acquisition (SCADA) system, Digital Manufacturing Systems. |
| **T3** | **Planning and Scheduling Techniques**<br>Computerized Maintenance Management System, Plan Management and Goal Reasoning, Plan Recognition, Vision-based Applications, Uncertainty and Stochasticity, Scheduling Management, Flexible Manufacturing, Failure Detection and Identification, Intelligent Quality Management System, Flexible Manufacturing System, Fault Detection and Diagnostics System. |
| **Informatic Management System Track** | |
| **T4** | **Smart Informatic Management System**<br>Intelligent Business Technology Management, Digital Innovation Management, Health Informatics Management System, Digital Data Management, Intelligent Education Management System, Intelligent Information Retail Management, Intelligent Point of Sale (POS), Digital Business Analytics, Intelligent Estimation and Prediction Systems, Real-time Information Systems. |

**T5** **Big Data and Logistics and Intelligent Transportation System**

Data Transceiver Management, Security and Risk Management, Digital Entrepreneur, Information Indexing and Retrieval, Embedded Dielectrics, Cloud Computing and Broadcast Convergence, Supply Chain and Logistics Management, Smart Transportation System, Knowledge-Based Management, Automotive systems/Automated Highway System, Optimize Public Transportation.

**T6** **Geographical, Surveillance, and Cyber Security System**

Cyber Surveillance, Cyber-Vision CCTV, Secure operating systems, Intrusion detection system, Intrusion Prevention Systems, Mobile secure gateway (MSG), Human-Machine Interfaces, Cyber Security and Safety Applications, Cyber-Warfare, Multi-Factor Authentication, Cybersecurity Assures Protection, Computer Protection.

**Artificial Intelligent and Control System Track**

**T7** **Signal and Real-time Control System**

Remoted Sensing and Wireless Network Sensor, Multi-Channel Processing, Microsensors and Micro-Actuators, Digital Signal Processing, Real-time Signal Control, Active Fault-Tolerant, Open-Loop/Closed-Loop Control, Linear and Non-Linear Control, Time-Variant and Time-Invariant Control, Continuous-Time and Discrete-Time Control, Feedback and Feedforward Control.

**T8** **Intelligent Control System**

Self-Organizing Control of Stochastic Systems, Autotuning PID Controller, Neural Network, Fuzzy Logic, Neuro-Fuzzy, Machine Learning, Parametric Estimation, System Identification, Adaptive Control Systems, Optical Recognition, Pattern Recognition, Character Recognition, Data Mining, Genetic Algorithms, Deep Learning, Recognition, and Speech interface.

**T9** **Implementation and Computational Techniques**

Computerized Maintenance Management system, Digital Control Systems, Conventional Control System, Smart Microcontroller Architecture, Fault Tolerant Control System Design, Digital and Virtual Reconfiguration Strategy, Computation-Based Reliability Analysis, Dynamic Behavior Constraints, Discrete-Event and Hybrid Systems, Computer-based Information Systems.

**Robotics System and their Application Track**

**T10** **Robot Planning and Scheduling**

Robot Motion Planning, Robot Learning, Robot Modeling and Simulation, Cognitive Modeling & Knowledge Representation for Robots, Robotics Optimized scheduling Formal Methods for Robotics, Medical Diagnosis and Treatment Planning Robots, Tele-Robotics and Teleoperation, Autonomous

**T11** **Unmanned and Industrial Robotics Technology**

Unmanned Ground Vehicles (UGV), Unmanned Aerial Systems (UAS), Unmanned Aerial Vehicles (UAV), Hybrid Drones, Agricultural Robot, Construction Robot, Navigation Searching and Rescue Robot, Underground Robot, Reconfiguration Robot, Healthcare and Surgical Robot, Material and Luggage Handling Robot, Humanoid Service and Security Robot, Assistive and Entertainment Robot, Logistics & Warehousing Robot, Lift Glazing Robot, Manipulator and Industrial Robot.

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| **T12** | **Automated Driving Control and Decision-making Planning**<br>Microelectronic Control Devices, Integrated Power Electronics, Distributed Power Systems, Power Line Conditioners, Micro Electric Drive, Variable-Frequency Drive, and Synchronous Motor Drives, Torque-Sensed Control Systems, Programmable thermostat, Servo Systems, Electric Machines Reliability, Integrated Access Devices. |
| | **Telecommunication and Communication Management Track** |
| **T13** | **Telecommunication Network Technology**<br>Aviation Communication Management, Traffic Control Management, Satellite Communication, Wireless and 5G Technologies, Space-Based Solar Power, Satellite Power System, Cloud Computing, Modern Satellite Communication, Hydroacoustic based Sonar Technology, Mobile networks and Services, Fog Computing and Social Networks, Smart Home and Smart City. |
| **T14** | **Radio and Wireless Communication Management**<br>Organizational Communication, Public Communication, Mass Communication, Multiplexing Communication, Passive Aggressive Communication, Amplitude Modulation, Frequency Modulation, Phase Modulation, Radio Frequency (RF) Communication, Electromagnetic Radiation, Modulation Schemes and Social Media Communication, Passive, Remote Sensing Crop Monitoring. |
| **T15** | **Aviation and Underwater Communication Management**<br>Air traffic Controllers, Management, Aircraft Communications Management, Mass Communication, Orbit Communication Systems, NASA Space Station Telerobotics, Underwater Acoustic Positioning and Communication, Sound Waves in Bottom of Sea, Underwater Noise and Signal Processing. |

**However, these topics are not limited to other related fields.**

**Important Date**
**Full Paper Submission: 3 January 2027**
Notification of Acceptance : 12 January 2027
Camera-ready Manuscripts : 17 January 2027
Early bird Registration and Payment : 20 January 2027
Conference Information and Accommodation: 10 February 2027
Conference Invited Letter : 10 February 2027
Conference and Exhibition : 30-31 March 2027