



19th from november 26 to novembre 30, 2018
SCIENTIFIC CONVENTION
ON ENGINEERING AND ARCHITECTURE
HAVANA INTERNACIONAL CONFERENCE CENTER

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19TH SCIENTIFIC CONFERENCE ON ENGINEERING AND ARCHITECTURE (CCIA 2018) Call

"José Antonio Echeverría", Technological University of Havana, CUJAE is pleased to call for the scientific, academic and professional community to the 19th edition of the SCIENTIFIC CONFERENCE ON ENGINEERING AND ARCHITECTURE (CCIA for its Spanish acronym), to be held from November 26th to 30th, 2018. The conference will take place at the Havana International Conference Center, Cuba, within the framework of the activities of our 54th ANNIVERSARY.

The 19th CCIA's main goal is to share experiences regarding the sustainable development and investigations related to the Conference's topics. The Conference will also favor the establishment of contacts among professionals in international cooperation among institutions, organizations and universities which will allow the increasing of the qualitative level of higher education, so that they can accomplish their commitment to society.

Prestigious experts will lectures and rule round tables, panels, oral presentations, poster presentations and videos. Among other activities we have previous courses and visits to specialized centers of interest. Also the 19th CCIA includes new congresses, symposiums and workshops concerning scientific, technological, pedagogical and managerial development of engineering and architecture. More info in www.ccia.cujae.edu.cu

EVENTS

The following events will be developed:

- **X Cuban Congress on Mechanical Engineering and Metallurgy (CCIM 2018)**

President of the Organizing Committee: Conrado Moreno Figueredo, PhD

Email: ccim@mecanica.cujae.edu.cu, conrado@tesla.cujae.edu.cu

Tel: (53) 7266 3630

Themes:

design applied to the mechanical and mechatronics systems

Computational Mechanics applied to mechanical, mechatronics and biomechanical systems

design and manufacturing of mechanical and mechatronics systems

engineering of materials and metallurgic and their technologies.

energy technologies, renewable energy and environment

Energy efficiency and energy saving

Refrigeration, ventilation and acclimatization

Generation, transport and use of the water steam

Standards metrology and industrial measurements



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Auto motor machines

Lubrication engineering

Mechanical engineering in the oil industry

Informatics applied to mechanical engineering

Capacity building

- Besides the main themes of CCIM 2018, the IX **Cuban Congress on Engineering of Maintenance** will take place with the following themes:

Themes:

Maintenace systems.

- Integrated Maintenance Systems
- Management on Technical Diagnosis and Inspection .
- Continous Training on Maintenance Engineering
- Operational Reliability in Industry and Services
- Planning and Maintenance Programming
- Hospital Maintenance.
- Touristic Facilities Maintenance
- Tercerización.
- Diagnosis and Audit Maintenance
- **International Conference on Technologies Applied to Intelligent Electrical Networks (CITREI 2018).**

President of the Organizing Committee: Miguel Castro Fernández, PhD

Email: mcastro@electronica.cujae.edu.cu

Tel: (53) 72663008 / (53) 52856184/ (53)-52856184

Organized by: Center for Electroenergetic Research and Testing (CIPEL), Faculty of Electrical Engineering (FIE), Technological University of Havana José Antonio Echeverría, CUJAE.

The Conference will refer the following topics:

Workshop on Intelligent Electrical Networks and Power Electrical Systems.

Contact person: Dr. C. Miriam Vilaragut Llanes, miriamv@electronica.cujae.edu.cu



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Topics.

- Impact of REI on Power Electrical Systems (SEP).
 - Modeling, analysis and simulation of REI.
 - Network stability analysis.
 - State estimators and REI.
- Integration of Renewable Energy Sources (RES) and Intelligent Electrical Networks (REI).
 - Solar power, wind, water, electric vehicles, energy storage

Environmental impacts on the use of RES.

- Resource Potentials in the FRE.
- Energy efficiency, energy quality and REI.
 - New technologies in search of energy efficiency. Its application to REI.
 - Modeling, application and control: development of equipment based on power electronics.

Flex Flexible AC transmission systems (FACTS).

- Protection in energy systems.
 - Application of IEC 61850
 - Synchrophasors in the distribution.
 - Monitoring of large areas and use of PMUs.
 - Use of distributed IEDs

Workshop Planning and Operation of Power Electrical Systems under the concept of Intelligent Electrical Networks.

Contact person: Dr. C. Miguel Castro Fernández, mcastro@electronica.cujae.edu.cu

Topics.

- Roadmap to the introduction of REI.
 - Investment in infrastructures for REI.
 - Budgets and planning.
 - Cost and benefit analysis.
 - Project evaluation.
- The electricity markets and REI.
 - Impact of REI on energy regulation and prices.
 - Regulations for REI.
 - Sustainable development and REI.
- Interoperability of REI.
 - Regulation.
 - Codes.
 - Regulations.
 - Policies for the implementation of REI.
- REI projects.
 - Field trials.
 - Application experiences and demonstrations at large, medium and small scale.



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→ Trends in technologies, research, regulations, incentives and opportunities.

- Integration of distributed energy sources.

Distribu Distributed generation.

→ Operation, control, monitoring and micro-grid technologies and isolated systems.

→ Mitigation of climate change.

- Energy Management Systems under the concept of Intelligent Electrical Networks.

→ Control center for intelligent energy management.

→ Technologies associated with intelligent energy management.

→ Energy management on the demand side. Application of the concepts of demand response and demand flexibility.

Workshop on New Technologies with application in the Intelligent Electrical Networks.

Contact persons: Dr. C. Luis Vazquez Seisdedos, lvazquez@fie.uo.edu.cu, lvazquez0211@gmail.com;

Dr. C. Francisco Herrera Fernández, herrera@uclv.edu.cu

Topics.

- Computational methods and optimization techniques applied to Intelligent Electrical Networks.

→ Use of Geographic Information Systems (GIS)

→ Use of data mining applied to the REI concept.

→ Applications based on the concept of multi-agent.

- Information and Communication Technologies (ICTs) within the framework of REI.

→ Support systems for operation and communications.

→ Systems architecture.

LAN LAN and WAN networks.

→ Control and information systems.

→ Cybersecurity.

- Measurement and instrumentation of SEP.

→ Measurement and instrumentation infrastructure.

→ Diagnosis and reliability of measurements.

→ Evaluation of components and systems.

- Smart cities.

→ Automation of buildings and housing.

→ Intelligent sensors.

→ Convergence of REI and the use of INTERNET.

Workshop on Signal Processing and Condition Monitoring

Contact person: Dr. C. Fidel Ernesto Hernández Montero, fhernandez@tele.cujae.edu.cu

Topics.

→ Vibration analysis and diagnosis.

→ Digital processing of thermographic images oriented to the inspection of equipment and machinery.

→ Monitoring of engine condition and signal analysis of motor current.



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- Analysis of acoustic emissions.
- Model-based current and voltage systems.
- Flow rate monitoring.
- Monitoring of pressure, temperature and other physical variables.
- Sensor fusion.

- **V International Congress on Chemical, Biotechnological and Food Engineering (CIIQBA)**

President of the Organizing Committee: Guido Riera González, PhD

Email: guido@quimica.cujae.edu.cu

Tel: (53) 72663414

Themes:

Mathematical modeling, optimization and simulation of processes

Artificial intelligence in Chemical Engineering

Synthesis and integration of processes

Valuation of physical and chemical properties

Assurance of quality in chemical, biotechnological and food processes

Culture of cells and recombined microorganisms

Engineering of Chemical reactions.

Production of biocombustibles

Enzymic technologies

Extraction, separation, and purification of bioactive substances

Environmental biotechnology

Biotechnology of food

Fermentations in biotechnological and food industries

Technologies of food preservation and processing

Technological processes in the production of beverages and liquors

Diet and nutrition

Advanced control system in unitary operations

Deterioration, corrosion and engineering of material

- **III Congress on Informatics Engineer and Informatics Systems. (CIIISF'18)**



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President of the Organizing Committee: Martha D. Delgado Dapena, PhD

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Tel: (53)72663775

Website: <http://ccia.cujae.edu.cu/index.php/ciiisi/ciiisi2018>

Contact: Carlos Ramón López Paz, PhD

Email: carlosr@ceis.cujae.edu.cu

Tel:(53) 72663798.

Themes:

- . Architectures, patterns and programming technologies
 - Requirements Engineering
 - Software architectures
 - Testing and Verification
 - Software Project Management
 - Software Quality
 - Methods and technologies for the integration of Business Systems
 - University-Company Transfer in the area of ICT
- . Applications of Computer Science in Computer Science
 - Strategic IT Consulting and IT / Business Alignment
 - Government IT
 - Business Intelligence
 - Methods and technologies for Business Process Management
 - Engineering and Management of Services based on Geolocation
 - Optimization, metaheuristics, bio-inspired systems
 - Pattern recognition and data mining. Applications
 - BigData with Hadoop and Spark
 - Multiagent Systems
- . Ontologies and Knowledge Engineering
 - Natural Language Processing
 - Parallel and Distributed Programming
 - Virtual reality
 - Cryptography
 - Software and Hardware Technology Security
 - Software Engineering and Education

- **IV Cuban Congress on Natural Fibers FIBRATEC 2018.**

President of the Organizing Committee: Joel Morales Salas, PhD

Email: jmorales@ceter.cujae.edu.cu, fibratec@ceter.cujae.edu.cu

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Themes:

1. Farm

- Seed Production
- Breeding and Fitogenetic Resources
- Cultivation technologies
- Diversification of Natural Fibers
- Harvesting and Postharvest

2. Industry and Sustainable Development

- Clean Technologies and Fibers Treatment
- Management of fibers and residuals
- Industrial Maintenance
- Economic Evaluation and Quality
- Development and use of soluble fibers
- The informatics and the natural fibers

3. Fiber and Energy

- Fibers, Energy and Energetic saving
- Use of alternative energies in the management of fibers
- Obtaining and use of biogas
- Use of biomass for energy purposes and animal food

4. Arts and Culture

- Fiber: Art and Culture
- Craftsmanship Design and Restoration
- Applications of the Natural Fiber

- **IV International Congress on Civil Engineering**

President of the Organizing Committee: Vivian Elena Parnás, PhD

Email: vivian@civil.cujae.edu.cu, ingridfl@civil.cujae.edu.cu

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Themes:

QUALITY CONTROL, DURABILITY, PATHOLOGY AND CONSTRUCTION PRESERVATION

Quality control and structure durability. Pathology of structures. Pathology of geotechnical constructions. Restoration of constructions. Building preservation

STRUCTURAL ENGINEERING.

Earthquake-resistant engineering. Structural Dynamics. Experimentation and instrumentation of structures. Structural safety. Computer modeling and structures design.

HIGHWAY ENGINEERING

Highway safety on sustainable foundation. Development of railway implementation projects.

Economic and low environmental impact paving techniques. Computer modeling for the design and review of road structures. Modern geodetic methods applied to highway engineering.

GEOTECHNICS AND FOUNDATIONS

Experimentation and instrumentation of geotechnical constructions. Design of deep and superficial foundations. Computer modeling of geotechnical problems

WIND IN CONSTRUCTIONS

Wind-structure interaction. Statistical wind treatment for structure calculation. Static and dynamic wind effects on structures. Wind loads on structures and buildings. Vulnerability of constructions facing the wind.

LIFE CYCLE MANAGEMENT OF CONTRUCTIONS

Risk assessment. Fuctional diagnostic. Cost evaluation. Programming and planning of buildings. Exploitation. Maintenance of buildings. Re-functionalization of buildings.

• **IV International Congress of Education in Engineering and Architecture (CIEIA)**

President of the Organizing Committee: Raquel Bermudez Morris, PhD

Email: rbmorris@crea.cujae.edu.cu

Tel: (53) 7266 3461

Workshops and themes of the Congress:

1. VI Symposium "The ICTs in the Learning Process of Technical Sciences" (TICACT 2018)

President of the Organizing Committee: Dr. Juan Francisco Cabrera Ramos, PhD

Email: jcabrera@crea.cujae.edu.cu, tictact@crea.cujae.edu.cu

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Themes:

Innovation of the integration of the ICTs in the teaching learning process.

Teachers' training in the incorporation of ICTs in the teaching-learning process of Engineering and Architecture

Virtual instrumentation, simulators, trainers, and virtual labs.

Serious game and videogames. Its impact in teaching.

Creativity in development through ICTs.

Social networks, learning virtual communities and the personal learning environment.

Production, management, and evaluation of educative materials

2. III Symposium on the Training of Engineers and Architects, (FIA) by its Spanish acronym, 2018

President of the Organizing Committee: Arasay Padrón Álvarez, PhD

Email: apadron@crea.cujae.edu.cu

Tel: (53) 7266 3229

Themes:

Technical Sciences Didactics for the training of engineers and architects.

The education of values in the process of training Engineers and Architects.

Peculiarities of the Engineer and Architects teaching

Other teaching problems related to the education of Engineers and Architects. Sent from Pat's cell

The professor and his/her role for the training of engineers and architects in accordance with the necessities of the current society.

The methodological work and its influence on the training of engineers and architects

Curricular transformation in the training of engineers and architects.

The economical education and its role for the training of engineers and architects.

Training and teaching improvement of specialists dedicated to the training of engineers and architects
Alternatives and new experiences in the training of engineers and architects

3. XIII International Workshop on Physics' Teaching for Engineering and Architecture (EFING 2018)



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President of the Organizing Committee: Juan José Llovera González. PhD

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Themes:

Teaching laboratories of Physics in Engineering

Automation of Physics experiments

New Technologies in Teaching of Physics

Virtual environment to learn Physics

Didactics of Physics and didactics of postgraduate courses in Applied Physics

Curriculum of Physics for engineers

Contemporary pedagogical trends in teaching of Physics for engineers

Interrelation of Physics with other basic sciences in engineers' education

Formation of values from the teaching of Physics

Workshop on Master's and Doctoral Theses

4. VIII International Workshop on Mathematics' Teaching for Engineering and Architecture

President of the Organizing Committee: Teresa de Jesús Carrasco Jiménez, PhD

Email: tcarrasco@ceamat.cujae.edu.cu, tiemia@ceamat.cujae.edu.cu

Tel: (53) 72663486

Themes:

1. Advanced Mathematical Thinking

- Teaching and learning of Calculus and
- Teaching and learning of Differential Equations
- Teaching and learning of Complex Variable Functions and Transformations

2. Geometric Thinking

- Teaching and learning of Descriptive Geometry and Drawing
- Teaching and learning of Analytical Geometry

3. Algebraic and Numerical Thinking

- Teaching and learning of Linear Algebra
- Teaching and learning of Discrete Mathematics and Optimization
- Teaching and learning of Numerical Mathematics

4. Thinking related to Probability and Statistics



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- Teaching and learning of probabilities
- Teaching and learning of statistics
- Statistics applied to educational research
- 5. Troubleshooting
 - Teaching problem solving
 - Problem-teaching teaching methods
- 6. Assessment in Mathematics
- 7. Training of teachers and researchers in Educational Mathematics
 - Postgraduate training and updating of teachers
 - The training of masters and doctors in Educational Mathematics
- 8. Technology in the teaching-learning process of Mathematics
 - Use of ICT as a means of teaching and learning Mathematics
 - Use of calculators and mathematical assistants
 - Mobile devices in the teaching-learning process of mathematics
 - Mathematical applications for mobile devices (mathematical apps)
- 9. The Mathematics Curriculum
 - Mathematics courses and subjects in Technical Sciences
 - Mathematics and interdisciplinary articulation
 - The development of general mathematical skills
 - The formation of mathematical competences
 - The articulation of the middle school with the university. Mathematical formation of the entrants to careers in Technical Sciences
- 10. Mathematical Modeling for Engineering and Architecture
- 11. Other topics related to the teaching and learning of Mathematics in Technical Sciences

IX Workshop on the Teaching of Foreign Languages for Specific Purposes (TELEFE 2018)

President of the Organizing Committee: Laura Barreiro Pérez, MSc

Email: laura@arquitectura.cujae.edu.cu, telefe@arquitectura.cujae.edu.cu

Tel: (53) 72671124

Themes:

Applied Linguistics: (Psycholinguistics, Socio-linguistics, Pragmalinguistics, Neuro-linguistics and Computational Linguistics)

Teaching Methodology of Foreign Languages

Educational Research

Education, Communication and Teaching of Values

Curriculum Design, Didactics and Evaluation

Pedagogical and Communicative Training for Professors and Professionals



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Learning Strategies

Creativeness and Development

Terminology and Translation

Culture and Language

Use of Information and Communication Technologies in the Teaching-Learning Process of Foreign Languages

- **X International Workshop on Applied Physics in Engineering (FISAPLIC 2018)**

President of the Organizing Committee: Juan José Llovera González, PhD

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Tel: (53) 7266 3736

Themes:

Applied optic.

Digital Image processing.

Biophysics.

Surface and colloid physics.

Nanophysics and nanotechnologies.

Computational physics.

Workshop on Master and Doctoral Theses.

- **X Ibero - American University Symposium on the Environment**

President of the Organizing Committee: José Antonio Díaz Duque, PhD

Email: jaduque@civil.cujae.edu.cu, suima@tesla.cujae.edu.cu,

beatrizg@quimica.cujae.edu.cu/carlosm@tesla.cujae.edu.cu/lnunezh@civil.cujae.edu.cu

Tel: (53) 7266 4265

Website: <http://suima.cujae.edu.cu>

Themes:

Integral management of natural resources (water resources, mountainous areas, coastal areas, agroproductive ecosystems, protected areas, mineral resources, ecotourism, hydrocarbons).



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Environmental management (environmental management systems, environmental education, environmental knowledge, environmental communication, environmental community service, responsible consumption, environmental labeling).

Integrated waste management (recovery-recycling-reuse (R3), cleaner production, life cycle assessment, eco-efficiency, responsible production, bioenergy generation, mining environmental liabilities).

Studies and environmental assessments (environmental impact assessments, strategic environmental assessment, ecological footprint, environmental assessments, environmental strategies).

State, prevention and mitigation of water pollution, soil, air, waste water and solid waste. Treatment technologies.

Sustainability. University and sustainability, engineering and sustainability, university models supporting sustainability, university cooperation, knowledge generation and local development for sustainability

- **X Symposium on Industrial Engineering and Similars**

President of the Organizing Committee: Lucy Torres Cabrera, MCs

Email: lucy@ind.cujae.edu.cu

Tel: (53) 7266 35 24

Workshops and themes:

- **XIII International Workshop on Quality and Development (QUALITAS, 2018).**

President of the Organizing Committee: Aleida González González, PhD

Email: agonza@ind.cujae.edu.cu

Themes:

Quality Management Systems. Quality Engineering. Environmental management systems. Risk management systems Management Integrated Systems. Quality in the Teaching Process. ICTs in Quality Management: Data Mining, Entrepreneurial Architecture, among others. Improvement Methodologies. Approval Valuation. Metrological and normalizative assurance

- **XI International Workshop of Human Resources.**

President of the Organizing Committee: Armando Cuesta, PhD

Email: cuesta@ind.cujae.edu.cu

Themes:

Human Resources and Entrepreneurial Improvement Management. Ergonomy. Organization of Work Process and Human Resources Planning. Human Resources and Competences. Systems of Performance Valuation,



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Selection, Training and Performance of Personnel. Learning Organizations and Knowledge Management. Communication and Audit. Informatics Systems Supporting Human resources Management.

- **XI Ibero-American Encounter of Applied Mathematics. (EIMA 2018).**

President of the Organizing Committee: Rosario Garza Ríos, PhD

Email: rosariog@ind.cujae.edu.cu

Themes:

Teaching of Statistics and Operations Research. Exploratory Analysis and Data Mining. Multivariate Statistics. Experiments Design. Support Systems for Decision Making. Model Decisions with Multiple Criteria. Data Analysis. Linear and Discrete Optimization. Optimization Software Transportation and routing. Game Theory and its applications. Models and mathematical methods of the theory of Inventories. Heuristic approaches and their application in decision making. Discrete Simulation. Simulation languages. Decisions with uncertainty. Artificial Intelligence. Statistics Applications and Operation Research in Industry and Services.

- **X Workshop on Enterprise Management**

President of the Organizing Committee: **Yuniel Bolaño Rodríguez**, PhD

Email: ybolanor@ind.cujae.edu.cu

Themes:

Enterprise Management. Strategic direction. Integration of the Management System Enterprise Economy, Negotiation and Marketing, Management Control and Commands Tables. Risk management. Change Management. Knowledge Discovery. Diffuse Logics. Impact of managerial training. University management.

- **V Workshop on Entrepreneurial Informatics.**

President of the Organizing Committee: Yadaris Ortega González, MSc

Email: yog@ind.cujae.edu.cu

Themes:

ICT-Business Alignment ICT policies and management. Management of Architectures (GA) Business and Government. Adoption and governance of GA frameworks. Artifacts, roles, metrics, patterns and processes for GA. Maturity models. Organization of knowledge work for the GA and the ICT government. ICT competences. Management of Information Systems (SI). Strategic planning of SI. ICT risks. Information and computer security. Evaluation of the impact of ICT on the efficiency, effectiveness and effectiveness of the organization. ICT-based solutions for the integration of systems and the organization. Information architectures based on linked data. Service-oriented architectures. Interoperability, agility, resilience and other SI metrics. ERP, CRM, SCM and business intelligence systems. Environmental information systems. Business and organizational modeling. Notations, languages, technologies and methods for the modeling of services, business, capabilities, motivations, objectives, policies, business processes, business rules, events, decisions, information systems, and business and government architectures. Quality and integrity of the models. Management of compliance with the regulatory



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framework. Social and human aspects of modeling. Collaborative tools for modeling. Engineering and knowledge management in organizations. Ontologies, patterns, conceptual models. Use of social networks and semantic technologies for the systematization of knowledge. Organizational learning based on ICT. Strategic, technological, competitive and commercial surveillance. Technological observatories Evaluation and selection of ICT. University-Business Relationship R + D + i models. Business incubators Methods of research and knowledge transfer from the field of Business Information Technology. ICT and organizational consulting services. Management of change projects with ICT. Innovation with ICT: geographic information infrastructures, internet of things, mobile technologies, digital company, digital marketing, social technologies, bigdata and industry 4.0.

- **V International Congress on Built Environment and Sustainable Development (MACDES 2018)**

President of the Organizing Committee: Dania González Couret, PhD

Email: macdes@arquitectura.cujae.edu.cu, daniala@arquitectura.cujae.edu.cu

Tel: (53) 72663277, (53)72600335

Themes:

Regional Planning and Rural Habitat.

Sustainable Cities.

Sustainable Architecture.

Sustainable conservation of built heritage.

Building Materials and Technologies.

Renewable Energies and other Ecotechnics.

Management for Sustainability.

Theoretical and Methodological approaches for Sustainability.

Communication and Capacity Building for Sustainability

- **IV International Congress on Management of Disasters's Risks**

President of the Organizing Committee: Carlos Llanes Burón, PhD

Email: llanes@civil.cujae.edu.cu, maray@cih.cujae.edu.cu

Tel: (53) 7266 3836, (53) 7266 3384

Themes:

Importance of the Studies of Hazards for the prevention of natural disasters.

Vulnerability Studies for the Reduction of Risks to natural disasters.



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Studies of Risks against Natural Disasters.

Warning and Early Alert Systems in the reduction of the natural disasters.

The Physical Planning, their importance on the Risk Management of natural disasters.

Importance of the Data Bases and the use of Geographical Information Systems for the prevention and mitigation of natural disasters.

Safe Hospitals Program in front of disasters. Safe Hospital Index.

Insurance as promoter of Risk Management against natural disasters

Psychological Preparation before, during and after the natural disasters in the Setting of Risks.

Management of risks of disasters in the design, construction, operation and maintenance of the chemistry, processing of minerals, energetic and the petroleum industries, as well as in other productive facilities where substances or dangerous materials that for some of their characteristics, represent a threat to the community and/or for the environment, are used or stored .

Management of risks of disasters in the transportation of substances or dangerous materials.

Prevention of technological disasters as a consequence of natural events

Management of risks technological disasters, industrial development and environment

The management of risks technological disasters as part of the general management of the companies

Experiences in the management of risks of technological disasters at territorial level: identification and evaluation of risks, emergencies plans, information and population's preparation.

Management of risks of disasters in facilities in those that one makes biological agents' use and their products, organisms and fragments of these with genetic information.

Management of risks in foods industries and facilities for storage and conservation of foodstuffs.

Management of risks of sanitary disasters at territorial level: territorial classification and urbanism, gathering of residuals, their treatment and final disposition, sanitary quality of the water and their readiness, systems of surveillance, control of vectors, information and population's preparation.

Experiences in the prevention of sanitary disasters associated to natural events.

The teaching of engineering and the architecture in pre and postgrade.

The scientific university investigation and its impact in the community.

The use and impact of new information technologies and communications.

The local actors's capacitation.

International nets of collaboration



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- **X European and Latin-American Seminar on Engineering Systems, CITTEL 2018**

President of the Organizing Committee: Caridad Anías Calderón, PhD

Email: cittel2018@tesla.cujae.edu.cu, catcha@tesla.cujae.edu.cu

Tel: (53) 72663325

Themes:

Wireless communications and systems. Emerging communication systems. Passive and active microwave's devices.

Convergence networks, services, equipment, terminals and applications for voice, data and videos.

Computing in the clouds

Management of networks, services and telecommunication business.

Internet technologies and services.

Information management and integration. Big data in Telecommunications.

Telecommunications and Telematics safety.

Energy, environment and telecommunications.

Technical rules and standards for Telecommunications and Telematics.

Radar applications (to meteorology, space geophysics and others) and radio astronomy (study of the sun).

Digital television.

Digital processing of signals and pattern recognition applied to telecommunications.

Teaching of Telecommunications and Telematics.

- **VIII International Conference of European - Latin American Center for Logistics and Ecological Projects.**

President of the Organizing Committee: José Antonio Acevedo Suárez, PhD

Email: logespro@tesla.cujae.edu.cu

Tel: (53) 7266-35-43

Themes:

Technologies

Sustainability

Ecological footprint



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Circular Economy
Bio-resources and bio-energy
Logistics and value chains
Agro-food chain
Incubation of Innovations
University-business cooperation

• **III International Symposium Of Modeling Applied to the Engineering (MAI 2018)**

President of the Organizing Committee: Orestes Llanes Santiago, PhD

Email: orestes@electronica.cujae.edu.cu

Tel: (53) 72608454

Themes:

Modeling in:

Hydraulic Engineering

- Modeling in river hydraulics and maritime
- Modeling in supply networks, sewer and storm drainage
- Modeling of groundwater
- Modeling in Hydrodynamics and morphology of coastal areas
- Modeling in Oceanography
- Modeling with applications in Fluid Mechanics
- Modeling in Environmental Hydraulics

Coordinator: Yoel Martínez González, PhD

Email: ymarq@cih.cujae.edu.cu

Geophysical Engineering

- Modeling and simulation of physical processes and fields in the Geosciences: Propagation of physical fields and transportation of fluids (water, oil, gas, contaminants) in natural media
- Spatial statistics and multivariate: Geostatistics, classification (supervised and unsupervised), Exploratory Data Analysis and Data Mining.
- Inverse problems to solve tasks of Geosciences.
- Processing of signals and images to solve tasks of Geosciences.

Coordinator: Rosa Maria Valcarcel Ortega, PhD

Email: rosy@tesla.cujae.edu.cu

Electronic Engineering

- Finite element methods applied to the modeling of transistors
- Finite element methods applied to the design of sensors and wireless devices



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- Computer tools applied to data processing arrangements of sensors (RNA, PCA, PLS, etc.)

Coordinator: Estrella González Rodríguez, PhD

Email: estrella@electronica.cujae.edu.cu

Industrial engineer

- Modeling of work
- Modeling of production and services
- Modeling systems and logistics operations
- Modeling of supply chains and value networks
- Models of optimizing the use of resources
- Simulation models and operating systems
- Modeling companies and businesses
- Modeling in decision
- Statistical models in the company and the Economy

Coordinator: Jose Acevedo Suarez, PhD

Email: acevedo@tesla.cujae.edu.cu

Mechanical Engineering

Coordinator:

Email:

Chemical engineering

- Mathematical modeling operations mass transfer, heat transfer in fluid flow operations in chemical and biological reactors.
- Mathematical modeling applied to the design of chemical processes.
- Mathematical modeling applied to the design of biotechnological processes.
- Mathematical modeling applied to design food processes.
- Models to estimate thermodynamic properties.
- Numerical methods and their application in process simulation in steady state.
- Dynamic simulation of equipment and processes.
- Applications of data mining in chemical engineering

Coordinator: Lourdes Cardenas Zumalacarregui, PhD

Email: lourdes@quimica.cujae.edu.cu

Civil engineering

- Numerical modeling of civil structures: cross-linked structures, sheet, building systems, knots and joints.
- Computational mechanics of solids, fluids and structures.
- Constitutive modeling of materials.
- Physical modeling in wind tunnels.
- Modeling of road structures and earthworks.
- Physical and numerical modeling of geotechnical and foundation problems.
- Application of numerical modeling tools for civil engineering problems.

Coordinator: Yoermes Gonzalez Haramboure, MSc



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Email: yoermes@civil.cujae.edu.cu

- **IV International Congress of Bioengineering**

President of the Organizing Committee: Angel Regueiro Gómez, PhD

Email: regueiro@automatica.cujae.edu.cu

Tel: (53) 7263704, (53) 72663717

Themes:

Bioinstrumentation and biomedical sensors.
Biological Systems Modeling.
Technologies and Systems for Clinical Rehabilitation.
Technologies and Systems for Alternative Medicine.
Bioinformatics.
Processing of Biosignals and Medical Images.
Biomechanics and Biomaterials.
Nanosciences and nanotechnologies in Bioengineering.
Management of Biomedical Technologies and Technological Assessment.
Teaching of Bioengineering and Biomedical Engineering.

• I International Seminar on University Extension in the Training of Technical Science Students in the 21st Century.

President of the Organizing Committee: Yoimi Trujillo Reyna, Eng

Email: seu@tesla.cujae.edu.cu, marmel@tesla.cujae.edu.cu

Tel: (53) 72607967, (53) 72663205, (53) 72663448, (53) 72663254

Themes:

- 1. Public policies for university extension and vocational training.**
- 2. Integrated management of extension in its link with teaching and research in a technological university.**
- 3. University-Society: identity and participation.**
- 4. Extension and quality of vocational training: Diagnosis, assessment systems and impact measurement.**
- 5. Artistic and sporting university activity and social inclusion.**
- 6. Communication and university extension.**
- 7. The university extension for a culture of peace and equity.**
- 8. Gender, culture and society.**
- 9. The socio-cultural project and the Honorary and Scientific Chairs as the axis of extension management.**
- 10. University extension and vocational training for sustainable development.**
- 11. Experiences and impact of the social and extension tasks from the perspective of the university student.**



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- **I International Workshop on Geosciences Applied to Engineering (I TIGAD).**

President of the Organizing Committee: Héctor Manuel Fernández Núñez, PhD

Email: hector@civil.cujae.edu.cu

willy@civil.cujae.edu.cu

mvega@civil.cujae.edu.cu

cujatigai@gmail.com

Tel: (53)

Themes:

- 1. Geophysics applied to engineering (hydrocarbons, minerals, archeology, geotechnics and hydrogeology).**
- 2. The application of new technologies for geophysical geological prospecting.**
- 3. Geomatics applied to engineering.**
- 4. Modeling and simulation in the Geosciences.**
- 5. Geological engineering.**
- 6. Hydrogeology**
- 7. Well drilling.**
- 8. Training in Geosciences.**

All scientific activities held in the International Conference Center in Havana City, and delegates will have complete acces to all of them. In the CCIA 18 you can participate as speaker delegate, listener, etc.

CLOSING DATE FOR WORKS

ACTIVITIES	CLOSING DATE
Sending of works	Julio 30th, 2018
Accepting notification of works	August 20th, 2018
Closing date for works that some recommnedations were made	September 30th, 2018
Date of the event	26/11/2018 to 30/11/2018

Interested in presentation of works, link www.ccia.cujae.edu.cu



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REGISTRATION FEE

The registration fee of participants includes the accreditation module (folder, pen, CD with all papers accepted for the event, scientific program), participation in academic activities, opening and closing activities, participation\'s certificate and speaker\'s certificate if present work. Also in the category of delegated lunch it is included

- » Delegate: 250.00 CUC
- » Undergraduate student: 80.00 CUC
- » Companion: 70.00 CUC

The registration fee for accompanying persons includes the opening and closing activities of the CCIA 18 and a Souvenir.

The payment can be made online through the website www.cciacuba.com, the payment maybe made in cash (CUC) at time of registration at the Conference center.



Ing. Caridad Sago Rivera

Especialista de Eventos e Incentivos
 Sucursal Havanatur La Habana
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Hosting Packages

Price per person per night expressed in Pesos Cubanos Convertibles, CUC

Hotels	Double Room	Single room
HOTEL PALCO ****	85.00 \$	99.00 \$
FOURT POINT *****	222.00 \$	293.00 \$
HOTEL MELIA HABANA *****	164.00 \$	264.00 \$
MEMORIES MIRAMAR HABANA ****	183.00 \$	189.00 \$
HOTEL PANORAMA ****	121.00 \$	151.00 \$



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STARFISH MONTEHABANA ***	108.00 \$	151.00 \$
HOTEL VEDADO ***	66.00 \$	95.00 \$

Services included:

- » Accommodation for one night with breakfast
- » Transfers airport / hotel / airport
- » Daily transfers to the conference center as well as the official activities of the event
- » Personal Assistance

RESERVA Y PAGO ONLINE:

http://www.cciacuba.com/index.php?module=hotel/hotel_info

Another option:

If you wish to obtain a package offer that includes the hotel stay at the venue, transfer and registration to the Conference, you can contact the MSc Marketing Specialist. Elier Alonso Montano, Directorate of International Sales of the Palace of Conferences making references to the name of the event

Email: promoevento@palco.cu, ventas@palco.cu.

Tel:(53)72084398

Sitio web: www.eventospalco.com



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OFFICIAL LANGUAGES

Abstracts and works will be presented in Spanish, English, and Portuguese.

COMMUNICATION.

Information, participation notification, as well as, abstracts, etc, can be done through the Secretary of the Event CCIA 18 or using the corresponding emails.

ORGANIZING COMMITTEE.

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In case of doubts:

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Professional Congress Organizer

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