Conference Aims and Objectives:
The Conference is an association devoted to bring together various intellectual high-quality events for presentation within the conference program. It will provide an extraordinary value for students, scholars, academics, researchers and industry persons.

Conference Date: 18th & 19th December 2021

Venue:
A/p. Korti, Tal. - Pandharpur, Pine - 413 304, Dist. - Solapur

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The SKN Sinhgad College of Engineering, Korti (SKNSCOE) is a well-known institution located on a magnificent 20-acre campus that was established under the visionary leadership of Hon’ble Prof. M. N. Navale. Under the auspices of Punyashlok Ahilyadevi Holkar Solapur University, Solapur, the Institute offers five B. Tech., four M. Tech., and two Ph. D. degree programmes in Engineering and Technology. The institute has made significant strides in the fields of engineering education and science since its inception. As a result, the college is accredited by NAAC with a ‘A’ rating. Through a well-defined teaching-learning process and skill-based activities, the institute ensures students’ overall development. Via value-based education and on-campus programmes, students are afforded gainly exposure to experiential learning. Under the leadership of Dr. Kailash J. Karande, Principal, SKNSCOE’s faculty members are committed to preparing students as tomorrow’s leaders capable of meeting the demands of an ever-changing world. Each department’s labs are equipped with cutting-edge technology and all necessary hardware and software. The library is completely equipped with all required reference books, journals, and periodicals. To better understand learning success and individual challenges, each department has a Local Guardian Teacher assigned to every 20 students; this programme aids in moulding students into decent human beings.

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Please join the world’s foremost gathering of research scientists, educators, and policymakers, to be held in Pune, on 18th & 19th December 2021.

Finally, on behalf of the Organizing Committee, I would like to invite all the Scientific Community to participate in the International Conference

Conference Topics :
1. SKNSCOE International Conference on Management, Business, Economics and Sustainability 2021
2. SKNSCOE International Conference on General Science, IT, Computer Science, Emerging Engineering & Technologies 2021

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Important Date

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<td>Abstract or Full Paper Submission</td>
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<td>Notification of Acceptance</td>
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Call for Paper
All full paper submissions will be peer reviewed and evaluated based on originality, technical and/or research content/depth, correctness, relevance to conference, contributions, and readability. Topics of interest for submission include, but are not limited to:
IMPORTANT ANNOUNCEMENT:

Due to current concerns on COVID-19 Pandemic Situation, the Committee has decided to withdraw the face to face presentation session for presenter category.

1. VIRTUAL PRESENTATION
   ZOOM: For real-time interaction between presenter and audience

2. ONLINE VIDEO PRESENTATION (NEW!!!)
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   It saves time, money and more importantly, we stay safe. It’s the New Normal!

Abstract Requirements:

- Abstracts must be written in English.
- Research design/methodology
- The abstract text must be written in one continuous paragraph not longer than 300 words. Numbered list, bullet points or tables are strictly prohibited.
- Any conclusion/interpretations/discussions that could be drawn out from the result of the study

The body of the abstract must contain the following information:

- Objective/purpose/rationale of the study
- Research design/methodology
- Overview of findings/trends (expected or preliminary results if the research is still in progress)
- To maintain impartiality and avoid any basis, authors are encouraged to not use any honorifics or rank such as Dr and Professor when referring to themselves in the document.

Presentation Requirements:

- All presentations must be done in English.
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- Each presenter shall be given 10 minutes for presentation. An additional 5 minutes will be added for Q&A which will be moderated by the session chair.

For the benefit of the audience, the presentation should at least cover the following area:

- The objective/purpose/rationale of the study
- Background/overview of the topic
- Theoretical framework
- Research design and methodology
- Overview of findings and results
- Conclusion/Discussion

Full Paper:

- Full papers must be uploaded in MS Word format.
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Consent for online publication of papers received during the International Conference to be held in 2021. Each paper will be of 10 pages of A4 size (approx.) and we will publish within Fifteen days after receiving papers in the respective journals.

Selected papers will be recommended for publication in SCOPUS indexed journals with additional fees.

**About Tracks and Topics**

**Topic A: Materials**

Rapidly growing global energy demands, limited reserves of fossil fuels and associated environmental concerns, the intermittent nature of renewable energy sources, the limited efficiency of existing energy conversion systems—these are the challenges that society faces today. Advanced materials are the key elements in the development of improved high-efficiency, low-cost, clean energy technologies. The section “Energy Materials” is a platform for the publication of original articles and comprehensive reviews on all aspects of fundamental science and applied research on materials used for harvesting, conversion, storage, transmission, and utilization of energy. The topics of interest include (but are not limited to) materials for:

- Energy harvesting: piezoelectric; thermoelectric; triboelectric; magnetostrictive;
- Energy storage: batteries; supercapacitors; hydrogen technology; hydrogen storage; water splitting; steam and carbon dioxide electrolysis; phase change materials; thermal energy storage;
- Energy conversion: fuel cells; photovoltaics; nuclear; solar energy conversion; biomass, biogas, and biofuels; electrocatalysis and photocatalysis;
- Energy transmission and emission control: superconductors; high- and low-ellissivity coating; thermal insulation;
- Energy-efficient technologies and devices
- Energy-related environmental aspects: CO2 capture, utilization, and conversion; recovery and recycling of energy materials.
- Both simulation/modeling and experimental contributions on design, preparation, processing, characterization, and performance of materials for energy-related technologies and applications are welcome.
- Materials for sensors

**Topic B: Energy**

- Advanced energy technologies
- Energy markets
- Integrated energy systems
- Nanotechnology applications to renewable energy
- Risk management issues in the sector
- Sustainable cities
- Energy, Water and Climate
- Energy Storage
- Concentrating Solar Power
- Photovoltaics
- Solar Desalination and Industrial Process Heat
- Biofuel and Alternative Fuel
- Ocean and Hydropower Technologies
- Energy efficiency
- Energy policy, economics, planning & regulation
- Modelling, simulation and forecasting of energy and carbon markets
- Renewable energy
- Smart grids
- Sustainable buildings
- Sustainable Buildings and Cities
- Grid-interactive Efficient Buildings
- Solar Chemistry
- Wind Energy
- Electrochemical Energy Conversion Systems
- Distributed Energy Systems
- Geothermal Energy

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• Emerging and Hybrid Technologies
• Solar energy and energy storage
• All solid state batteries
• Batteries for grid energy storage
• Capacitive energy storage systems
• Ceramic and metallic interconnects
• Computational modeling of processes in SSHS
• Electrolytes; oxygen ion, proton and mixed conductors
• Fuel cell catalysts and catalyst support
• Photovoltaic cells technologies
• Solar Concentrating Systems
• Solar Energy Systems
• Nanotech enabled Solar Energy Systems
• Reflectors
• Solar Energy Storage Systems
• Solar Energy Technology
• Energy Production and Management
• Energy technology
• Nanotechnology and materials technology
• Emerging technology
• Environmental and social impact
• Energy eco- and management
• Nuclear technology
• Energy Economics and Energy Finance
• Energy, Chemical Management and Optimization
• Energy Chemical Process Simulation and Analysis
• Energy Chemical Management System Modelling and Simulation
• Energy and Environmental System Engineering
• Traditional Energy and Clean Energy Development
• Energy Management System Evaluation and Control
• Energy and Low-Carbon Economy
• Renewable Energy Resources and Systems
• Energy Chemical Safety and Emergency Management
• Topic C: Environment
• Biomass and bio-based products
• Carbon pricing
• Climate change & global warming
• Eco-design & eco-efficiency
• Ecology & biodiversity conservation
• Efficient use of resources
• Environmental impact assessment
• Environmental policy, economics, planning & regulation
• Environmental pollution, prevention & pollution control
• Game theory and strategic behavior in environmental policies
• Life cycle analysis methodologies
• Risk assessment
• Sustainable communities
• Carbon trading and taxation
• Climate change and energy industry
• Clean energy technologies
• Design of energy markets
• Distributed generation issues
• Energy prices and uncertainties
• Energy efficiency challenges
• Energy and environmental policy
• Energy demand and economic growth
• Energy markets and regulation
• Geopolitics of oil and natural gas
• Greenhouse gas abatement costs and potentials
• Integration of intermittent power sources
• Investment issues in liberalized markets
• Market power issues
• Oil reserves and production
• Prospects of CCS technologies
• Prospects for nuclear power
• Prospects for alternative transportation fuels
• Power and gas trade under volatile prices
• Regulation and regulation uncertainties
• Renewable energy technologies and markets
• Risk management issues in the energy sector
• Security of supply issues
• Shale fuel reserves, economics and sustainability
• Technology adoption prospects and policies
• Biodegradation of hazardous substances
• Carbon capture and storage
• Climate and climatic changes
• Disinfection and disinfection by-products
• Emission sources
• Environmental restoration and ecological engineering
• Environmental science and technology
• Geophysics
• Global warming
• Green manufacturing
• Ground water remediation
• Hazardous substances and detection techniques

**Topic D: Sustainable Development**

• Behavior towards sustainability
• Communication tools for sustainable development
• School-community partnership
• Sustainability education by private industry
• Health and the environment
• Hybrid energy systems
• Institutional development
• Interaction between pollutants
• Legal, economic and managerial aspects of solid waste management
• Life cycle analysis and Systems process accounting
• Management and regulation of point and diffuse pollution
• Management of hazardous solid waste
• Meteorology
• Monitoring and analysis of environmental contaminant
• Nutrients removal
• Optimization of collection systems
• Physical and Social hydrology
• Quality guidelines, environmental regulation and monitoring
• Recycling and reuse
• Resource management
• Safety for all
• Sludge treatment and reuse
• Solid waste management
• Storm-water management
• Bio-engineering
• Biodiversity conservation
• Clean technologies
• Deforestation
• Effect of distribution systems on potable water quality
• Environmental dynamics
• Environmental sustainability
• Fate of hazardous substances
• Global environmental change and ecosystems management
• Green infrastructures
• Ground water management
• Habitat reconstruction
• Challenges, barriers and opportunities
• Environment and climate friendly schools
• Sustainability across curriculum
• Sustainable Development and education
• Health related organisms
• Industrial wastewater treatment
• Integrated ecosystems management
• Landscape degradation and restoration
• Management of water treatment residuals
• Modelling and decision support tools
• On site and small scale systems
• Ozone layer depletion
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• Regulatory practice
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• Satellite applications in the environment
• Soil decontamination
• Storage technology
• Suspended and fixed film biological processes

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• Sustainability in process industries  
• Systems embodiment accounting and input-output analysis
• Technical aspects of treatment and disposal methods  
• Trans-boundary cooperation  
• Waste minimization  
• Wastewater and sludge treatment  
• Water quality  
• Water resources and river basin management  
• Wetlands  
• Energy Engineering  
• Demand-side management  
• Distributed ledger systems for energy  
• Economic instruments  
• Energy efficient systems  
• Energy policies and economics  
• Sustainability, Society, and Education  

• Toxicity assessment and epidemiological studies  
• Waste management  
• Waste valorization  
• Water and Soil reservation  
• Water quality objectives standard setting  
• Water treatment and reclamation  
• Zero energy building  
• Control technologies  
• Distributed energy resources  
• Eco-technology  
• Electricity market and electricity supply chain  
• Energy management and audit  
• Energy security and clean use  
• Energy and sustainable development

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ONE Registration Fee includes the following for the registered authors:

- Participation in the technical program
- Digital Attendance Certificate
- E-Proceedings

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