**Canadian University Dubai (CUD), United Arab Emirates** organizes the
**2024 Third International Conference on Sustainable Mobility Applications, Renewables and Technology (SMART)**
November 22-24, 2024
**http://smart-conf.com** with the sponsorship of





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# FIRST CALL FOR PAPERS

### Venue

SMART 2024 will be hosted by Canadian University Dubai (CUD), United Arab Emirates (UAE). Dubai offers visitors a kaleidoscope of attractions. An example is the Museum of the Future, an exhibition space for innovative and futuristic ideologies, services and products. In addition, visitors can explore its contrasting landscapes, archaeological sites and a natural seawater inlet, known as The Creek, which cuts cross the city centre and is the "focal point of life in Dubai." Among its top attractions are the Burj Khalifa, Dubai Mall and Palm Jumeirah.

### Aims and Scope

SMART 2024 is intended to be a forum of specialists coming from academia and industry involved in R&D projects boosting the sustainable development with emphasis on mobility, energy, buildings and more general smart cities. SMART'24 will be an opportunity to share their scientific, technical, business and social experiences.

### Topics

SMART 2024 covers topics dealing with the sustainable mobility (SM), those dedicated to renewable energies (RE), those allied to green buildings and industrial processes (GBI), and those shared by these topics (ST), including (but not limited to) the following:
**SM1:** EVs, HEVs, PHEVs, and MHEHs powertrain design and energy management systems.
**SM2:** electric drivetrain component design, sizing, optimization, modeling, identification, and control.
**SM3:** EVs and PHEVs charging, conductive/inductive charging, V2G strategies, battery performance assessment, fuel cells and hydrogen infrastructure, ultracapacitors, hybrid power supply.
**SM4:** autonomous vehicles, intelligent guidance, localisation and mapping, robust perception, safety assessment.

**RE1:** wind energy assessment, wind generating systems design and control, grid interfacing, GCRs, onshore/offshore systems.
**RE2:** PV topologies optimization, grid interfacing, MPPT, water pumping, heating and desalination.
**RE3:** marine energies, geothermal energy, biomass, smart grid, hybridization.
**GBI1:** green architecture, sustainable construction materials and process, integration of renewables, water supply.
**GBI2:** indoor environmental quality enhancement, ICT applied to green buildings, smart homes.
**GBI3:** energy efficiency improvement of industrial plants and processes, decarbonization challenges, sustainable industry 4.0.
**GBI4:** sustainable computing applications, IT tool energy- and thermal-aware management, data centers carbon footprint, AI-powered IT.
**ST1:** greenhouse gas emission reduction policies, life cycle prediction and analysis, working towards an energy efficient environment.
**ST2:** market analysis, research and prediction, economic benefits in short and long terms, employment, training.
**ST3:** national and youth programs, public education, codes and standards, maintenance, recycling, waste treatment.

### Submission

Prospective authors are invited to submit their extended abstracts fulfilling the requirements given in the Author Guidelines window of the website, and taking into account the following deadlines:

| | |
|---|---|
| April 26, 2024 | Abstract submission |
| May 31, 2024 | Provisional acceptance |
| June 28, 2024 | Full paper submission |
| July 19, 2024 | Final acceptance |

Submissions should be done via the conference manuscript central available in the link: http://smart-conf-manuscriptcentral