Special Session on

Green Technologies for Intelligent Urban Planning

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Technical Outline of the Session and Topics:

The relentless march of global urbanization presents a complex tapestry of challenges, stretching from strained resources to diminished quality of life in our burgeoning metropolitan centers. With over half the world's population now calling cities home, anxieties surrounding overburdened infrastructure, pervasive pollution, compromised public safety, and the ever-rising cost of living are amplified. Navigating these intricate issues is paramount for achieving true sustainable development, and the rise of smart cities offers a beacon of hope. This special session shines a spotlight on the crucial integration of soft computing methodologies into the very fabric of urban planning. These powerful techniques, encompassing sophisticated optimization and nuanced decision-making processes, unlock innovative solutions for a range of urban needs, from intelligent waste management and real-time control of power grids to adaptive traffic flow systems and beyond. Their significance lies in the potential to optimize urban operations, elevate service delivery to new heights, and bolster resilience against the increasing threat of natural disasters. As soft computing increasingly permeates vital sectors like healthcare, transportation, and power system, a deep exploration of its applications becomes not just advantageous, but absolutely imperative for both researchers and practitioners. This special session provides a vital forum to delve into the cutting edge of these advancements, fostering collaborative dialogues on how soft computing can act as a catalyst, spearheading the development of truly intelligent, sustainable, and resilient urban environments across the globe.

The scope of this Special Session includes but is not limited to the topics below:

- **Soft Computing Applications in Urban Infrastructure**
- **Emergency management and response using soft computing**
- **Smart Power Distribution Systems**
- **Data Analytics for Sustainable Development**
- **Human-Centric Smart City Solutions**
- **Integration of IoT devices for energy management**
- **Improving citizen services using soft computing**

Submission of papers: deadline follows the deadline for the regular papers. All the instructions for paper submission are included in the conference website: https://ias-am.ieee.org/2025/