

Title of the Session 2:

## **Environmental, Energetic and Economic Sustainability**

Session Chair: **Prof. Peter Nijkamp**

*Challenge: Environmental delay, caused by air, soil and water pollution, waste management, and climatological change*

Several megatrends in our current century form a threat to a sustainable development of our planet: depletion of resources, climate change, mass migration, urbanization, socio-ethnic tensions, spatial imbalances and disparities. One of the most pressing issues nowadays is made up by environmental delay, caused by air, soil and water pollution, waste, and climatological change. Several countries and regions – in both the developed and in the developing world- regard environmental issues as one of the most challenging policy questions. In so doing, environmental problems are often seen as detrimental cost factors, but less of challenging opportunity factors. To turn the 'bad' into the 'good' calls for innovative action strategies. Nowadays, we observe a broad variety of policy, business and civic resources so as to cope with the various dilemma's involved with the environmental challenge. It is, therefore, important to understand at mechanisms at hand and to seek for good practice guidelines. This MIST session aims to offer new insights and operational lessons on the issues at stake.

### **Subtopics:**

- New trends of urban and regional economics development
- Sustainable cities and regions
- Energy efficiency
- Efficient exploitation of natural resources
- Low-carbon energy policies
- Urban Solid Waste management
- Management and policies in the municipal companies
- Circular Economy

### Topics and Issues of the Session 4:

#### **2.1. Sustainable Development**

*Authors: Masood Gheasi*

Nature of paper: Conceptual/Theoretical

#### **2.2. Cosmetic products obtaining based on the recovery of food waste (Not validated)**

*Authors: Ana Maria Pires, Ana Sousa Coelho, Joana Araújo and Sandra Madeira*

Nature of paper: Conceptual/Theoretical

#### **2.3. Public Infrastructure and Regional Growth: Evidence from the Turkish Regions**

*Authors: Zeynep Elburz, Peter Nijkamp, Eric Pels*

Nature of paper: Applied Statistical / Econometric

**2.4. An Odyssey to Urban Sustainability (Not validated)**

*Authors: B.Sudhakara Reddy*

Nature of paper: Conceptual/Theoretical

**2.5. Urban Waste Management in Portugal: PERSU2020<sup>1</sup> challenges, opportunities, and contingencies (Not validated)**

*Authors: João Dias Coelho*

Nature of paper: Case Study Research

**2.6. Urban Waste Management in Portugal: Process Optimization in MBT<sup>2</sup>**

*Authors: Ricardo Castro and Maria João Alves*

Nature of paper: Case Study Research

Process optimization in TMB - mechanical biological treatment

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<sup>1</sup> PERSU2020: Strategic Plan for Urban Waste, 2020

<sup>2</sup> MBT: Mechanical Biological Treatment