Green Technologies for a cleaner production

The future world challenges include impact of technological development and new emerging technologies on environment and require an enormous effort to efficiently address air, water, food and energy challenges. The smart 2020 report written by the international climate group recommends to intensively deploy Information and Communication Technologies (ICT) both for enhancing the monitoring of environment and human activities (industry, building, transport, etc.) and for distributed smart ICT systems for enabling to mitigate the pollution, the waste, food quality and supply, energy constraints, etc. Moreover, the traditional methodologies in distributed system engineering have to be adapted and reviewed for minimizing the ICT footprint on the environment in terms of carbon emission, radio wave propagation, waste, technological pollution, energy efficiency, resource reuse, etc. Thus, ICT system engineering has to be globally rethought in the context of new business paradigm as the circular economy. The major effort of Engineering focuses then on the resource efficiency.

The objective of Open Invited Track “Green Technologies for a cleaner production” is to share original research, industrial and education contributions on these related topics:

- Green Technologies:
  - Green software,
  - Green networking,
  - Green storage,
  - Green ICT architecture (Internet/web of things, big data, etc.).

- Greening by ICT / Cleaner production:
  - Smart industries,
  - Smart cities,
  - Smart building,
  - Smart grid, renewable energy,
  - Smart logistic,
  - Environmental management.

- Eco-design:
  - Systemic approach,
  - Life cycle management,
  - Circular economy,
  - Obsolescence,
  - Biomimicry,
  - Green metrics & evaluation,
  - Standardization.

- Sustainable Society:
  - Service economy,
  - Digital divide,
  - Open data,
  - ICT & Ethics,
  - Education.

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