

## Special Issue:

# “Green Artificial Intelligence: Regulatory Road to Sustainable AI”

### Call for papers for:

**Transforming Government: People, Process and Policy (TGPPP)**

### Guest Editors:

**Hiroshi Ishiguro, Koichi Nagashima, Fumio Shimpo and Maciej M. Sokołowski**

Rachael: *Do you like our owl?*

Deckard: *It's artificial?*

Rachael: *Of course it is.*

Deckard: *Must be expensive.*

Rachael: *Very.*

*Blade Runner*, dir. Ridley Scott, 1982

## 1. Overview of the Special Issue

“Like the steam engine or electricity in the past, AI is transforming our world, our society and our industry” announced the European Commission in 2018. In the early 2020s the vision of AI – artificial intelligence, depicted in Ridley Scott’s “Blade Runner” (1982), along with technological development and the latest AI and robotics applications do not seem to be anything extraordinary. This is true also in the natural environment where solutions like drones or robots are widely used. However, in the era of the climate crisis and the pandemic (and post-pandemic times), when green development is aimed at steering the reconstruction of global economies, asking about AI development based on the principles of sustainable development which respond to climate and environmental challenges – is becoming increasingly urgent.

AI, robotics, Internet of Things, Big Data, cloud computing, and many other technological innovations have great potential to improve countries' clean transformation, making it sustainable, low-emission, renewable, and efficient. However, how should we set up the right framework for unlocking AI's capacity for such a transformation?

## 2. Aim of the Special Issue

The Special Issue will highlight the transformational aspects of this matter, showing the regulatory road to green, sustainable AI. The aim of the Special Issue would be to answer the primary question: how to make – with the help of a public policy – AI green? This question is followed by a series of issues:

- how can green AI be defined?
- what should be done to develop green AI at the policy level (national, regional, and perhaps global)?
- how can green AI development be supported by the administration?
- what kind of mistakes should be avoided on the road to green AI, and what types of legal liabilities should be considered?

### 3. Potential topics

Taking into account the Aims of the Special Issue, the Guest Editors invite high-quality original contributions that address, but are not limited to:

- green AI and public policies at different levels (local, regional, international perspectives)
- green AI development, promotion tools, and regulatory approaches,
- green AI policy-making covering energy efficiency, RES, emission reduction in AI and robotics,
- green AI in e-government transformation,
- green AI as an element of smart cities and smart villages.

### 4. Manuscript requirements

Papers should be between 5,000 – 6,000 words. This includes all text, for example, the structured abstract, references, all text in tables, and figures and appendices.

Please allow 280 words for each figure or table.

Please format and reference your paper according to Journal’s requirements. To view the author guidelines for this journal, please visit the journal homepage: <https://www.emeraldgroupublishing.com/journal/tg#author-guidelines>

### 5. Key dates

**(1) Abstracts Submission: March 1st, 2021**

Abstracts **500 words maximum** (1) due to Guest Editors: [tgppp@robotlaw.jp](mailto:tgppp@robotlaw.jp)

**(2) Notification of Acceptance of Abstracts: March 15th, 2021**

Acceptance of abstract does not guarantee publication. All manuscripts will go through the review process as they all need to fit into a rigorous TGPPP journal standard.

**(3) Deadline for Submission of Full Articles: June 30th, 2021**

Submission portal (Scholar One) will be open for accepted abstracts (2) from April 15th, 2021.

Submissions of manuscripts (3) must be made to submission portal by the deadline of June 30th, 2021. After this deadline submission site for this Special Issue will be closed.

To submit your research, please visit Scholar One manuscript portal:  
<https://mc.manuscriptcentral.com/TGPPP>

**(4) Acceptance Deadline: September 30th, 2021**

**6. Guest Editors**

Prof Dr Hiroshi ISHIGURO (Osaka University)

Jnr Assoc Prof Koichi NAGASHIMA (Teikyo University)

Prof Dr Fumio SHIMPO (Keio University)

Dr Maciej M. SOKOŁOWSKI (University of Warsaw)

If you have any queries regarding abstracts submission, please contact the Guest Editors:  
[tgppp@robotlaw.jp](mailto:tgppp@robotlaw.jp)