

A background image of a large, classical-style building with many windows and columns, likely a university or research institution in St. Petersburg, Russia.

VI IEEE International Conference «Video and Audio Signal Processing in the Context of Neurotechnologies»

8-12 of November 2021

St.Petersburg, Russia

Call for Papers

6th IEEE International Conference “Video and Audio Signal Processing in the Context of Neurotechnologies” SPCN-2021

It is our great pleasure to welcome you to **6th IEEE International Conference «Video and audio signal processing in the context of Neurotechnologies»**.

This Conference is organized

- *Pavlov Institute of Physiology Russian Academy of Sciences*
- *State Institute of Film and Television*
- *St.Petersburg Electrotechnical University "LETI"*
- *«Neuroiconica Assistive» Co. Ltd.*

The conference will be held **ONLINE by Zoom on November 08 – 12 November 2021**

The conference will provide an international forum where industry, researchers and academia will be able to interact and exchange experiences, ideas, and research results in all areas of Video and Audio Signal Processing in the Context of Neurotechnologies. The conference offers unique opportunity for all the participants to communicate with experts in the field. We have some of the world's leading experts giving keynote speeches, and also high quality tutorials as well as panel discussions.

Important Dates

Abstract Submission Deadline: 24 October 2021

Papers Submission

The conference is asking you for submissions of papers for oral online presentations.

Prospective authors are invited to submit an abstract in any of the areas below for presentation at the conference and publication in the conference proceedings.

Potential topics are included but not limited to the following topics in the field

«From Neurotechnologies to Consumer»:

Signal Processing

- Image, video signal processing
- Light, color, form, and scene processing in human and device
- Signal processing in hearing and acoustics
- Multidimensional signal processing
- Audio-visual recording and storage
- Coding and compression

Multimedia

- Multimedia content analysis
- Semantic analysis of multimedia and contextual data

Human-Device Interaction

- Sensors and sensory-motor systems
- Sensor array and multichannel systems
- Video and audio quality assessment
- Eye movement and EEG-measurements for human and device control
- Smart interface between optical and visual space
- User centered design
- Usability/Accessibility
- Smart lightning

Cognitive Science and Neurotechnologies

- Neurons and neuronal networks
- Neuron-glia interactions
- Decision-making and uncertainty
- Decision-making in economy and industry

- Signal processing in cognitive tasks
- Image and semantic
- Face recognition
- Biological movement recognition
- Animal models of human behavior

Virtual Reality Environments

- Tracking and sensing
- Input devices for virtual reality
- Perception, cognition and locomotion in virtual environments
- Complex virtual environments
- Haptic technology
- Virtual humans and avatars

Registration

Please submit your paper electronically

All papers will be peer reviewed

[Abstract submission for SPCN 2021](#)

[Workshop Proposals for SPCN 2021](#)

Contact us

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