

Third International Conference on Advances in Signal Processing and Artificial Intelligence (ASPai' 2021)

17 - 19 November 2021 ● Porto, Portugal

ASPai
PORTO • 2021

<https://aspai-conference.com/>

Advances in artificial intelligence (AI) and signal processing are driving the growth of the artificial intelligence market by two major factors: emerging AI technologies and intelligent signal processing. Today, more and more sensor manufacturers are using machine learning to sensors and signal data for analyses. However, the increased number of sensors in devices will inherently generate higher data throughput, which poses a serious challenge in managing and processing the tremendous amount of sensory information. Furthermore, traditional processing techniques in conventional sensing devices are no longer suitable for systematically labeling, processing, and analyzing the exuberant amount of information.

The major restraint for AI market is the limited number of AI technology experts. Today, there are approximately 300,000 AI researchers and practitioners worldwide, but the market demand is around millions of roles.

The series of ASPai conferences have been launched to fill-in this gap and provide a forum for open discussion and development of emerging artificial intelligence and appropriate signal processing technologies focused on real-world implementations by offering Hardware, Software, Services, Technology. The goal of the conference is to provide an interactive environment for establishing collaboration, exchanging ideas, and facilitating discussion between researchers, manufacturers and users. The 1st ASPai conference has taken place in Barcelona (Spain) in 2019, and the 2nd one - in Berlin (Germany) in 2020 (in online format). The ASPai' 2021 is organized by IFSA with the media partners IOS Press and World Scientific.

The purpose of ASPai' 2021 is bring together leading international researchers, developers and practitioners interested in artificial intelligence and appropriate signal processing technologies. The conference will offer plenary and invited talks, contributed oral and poster presentations. Social and cultural events will also take place to foster networking among the participants in a friendly manner.

The topics of interest include (but not limited):

Artificial Intelligence:

- AI Algorithms
- Intelligent System Architectures
- Hybrid Intelligent Systems
- Artificial Neural Networks
- Expert Systems
- Intelligent Networks
- Parallel Processing
- Pattern Recognition
- Pervasive Computing and Ambient Intelligence
- Programming Languages Artificial Intelligence
- Soft Computing and Applications
- Artificial Intelligence Tools & Applications
- CAD Design & Testing
- Computer Vision and Speech Recognition
- Fuzzy Logic, Systems and learning
- Computational Theories, Learning and Intelligence
- Computational Neuroscience
- Soft Computing Theory and Applications
- Software & Hardware Architectures
- Web Intelligence Applications & Search
- Ambient Intelligence
- Artificial Immune Systems
- Autonomous and Ubiquitous Computing
- Bayesian Models and networks
- Data Fusion
- Distributed AI
- Machine Learning
- Deep Learning
- Learning and Adaptive Sensor Fusion
- Multisensor Data Fusion Based on Neural and Fuzzy Techniques
- Applied Artificial Intelligence
- Self-Organising Networks

Signal Processing:

- Signal Processing Theory and Methods
- Sensor Array and Multichannel Signal Processing
- Multivariable Sensor Systems
- Digital Signal Processing
- Image and Video Processing
- Multichannel Signal Processing
- Biomedical Signal Processing
- Biometrics
- Chaotic and Fractal Systems
- Computer Vision and Pattern Recognition
- Image and Video Processing
- Information Theory and Coding
- Speech Signal Processing
- Signal Processing for Communications and Networking
- Radar and Sonar Signal Processing
- Satellite Signal Processing
- Nonlinear Signal Processing
- Statistical Signal Processing
- Signal Processing for Internet of Things
- Coding
- Wavelet Transformation
- Theory and Application of Filtering
- Spectral Analyze

Deadlines:

Submission (2-page abstract): **25 September 2021**
Notification of acceptance: **15 October 2021**
Registration: **25 October 2021**
Camera ready (4-6 pages paper): **30 October 2021**



Contribution Types:

- Keynote presentations
- Invited presentations
- Special sessions papers
- Regular papers
- Posters
- Industrial presentations
- Panel discussions
- Exhibition

One event - three publications !

1. All registered abstracts will be published in the conference proceedings (Flash drive edition of published Proceedings with the ISBN).
2. Authors will be invited to submit full-page extended papers to one of special journals' issues, which are published in both formats: print and electronic:
 - Sensors & Transducers (ISSN 2306-8515, e-ISSN 1726-5479) by IFSA Publishing
 - Integrated Computer-Aided Engineering (ISSN: 1069-2509, e-ISSN: 1875-8835) by IOS Press
 - International Journal of Neural Systems (ISSN: 0129-0657, e-ISSN: 1793-6462) by World Scientific
3. The limited number of full-page papers published in the Sensors & Transducers journal will be selected by the Editorial Board to extend for open access books' chapters for the Book Series on 'Advances in Signal Processing: Reviews', Vol. 3 or 'Advances in Artificial Intelligence: Reviews', Vol. 2, which will be published by IFSA Publishing in 2021/2022.

Special Sessions:

Authors are welcome to propose and manage special sessions during the ASPAI' 2021 conference. Each special session will contain 4-6 papers in a related field as specified above. Session organizers will get:

- Certificate of Appreciation
- Free Registration
- Special Publishing Theme within Conference Proceedings

Chairman:

Prof., Dr. Sergey Y. Yurish (IFSA, Spain)
e-mail: aspai_2021@sensorsportal.com

Advisory Chairman:

Prof., Dr. Hojjat Adeli (The Ohio State University, USA)

Conference Manager:

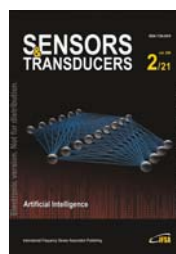
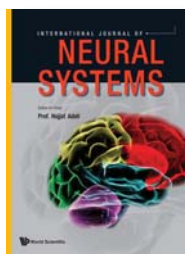
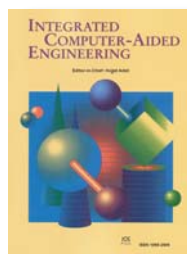
Mrs. Tetyana Zakharchenko (IFSA Publishing, S.L., Spain)

Steering Committee:

Dr. Mobyen Uddin Ahmed (Mälardalen University, Sweden)
Dr. Sergey Grosman (Siemens PPAL, Germany)
Prof. Svetlana V. Prokopchina (Financial University, Russia)
Prof. Valery B. Tarassov (Bauman Moscow State Technical University, Russia)
Prof. Sandeep Singh Sengar (SRM University, Amaravati, India)

Organizing Committee:

Mr. Javier Cañete (UPC, Barcelona, Spain)
Mr. Luis Morey (UPC, Barcelona, Spain)
Mr. Sergey Garmash (IFSA Publishing, S.L., Spain)



Gala Dinner and Social Programme

Welcome Cocktail. 16 November 2021. The Welcome Cocktail will take place in the event hotel Holiday Inn Porto - Gaia . Do not miss this opportunity to say the first "hello" to attendees and committee members !

Gala Dinner & Porto Wine Degustation. 18 November 2021. The location will be determined later.

