

# COINS 2020

## IEEE International Conference on Omni-layer Intelligent systems

### Track: Artificial Intelligence, Machine Learning, Big Data Analytics, and Data Science

July 27-29, 2020

Barcelona, Spain

<https://coinsconf.com>



## Call for Papers

Topics of interest of this track include, but are not limited to, the following:

#### A) Artificial intelligent and Machine learning Fundamentals

Machine learning, artificial intelligence, and predictive analytics: analysis, modelling, simulation, and application in different domains  
Platforms, architecture and infrastructure for efficient data analytics  
Data, Text, Stream, Process & Network Mining  
Times Series Models  
Bayesian Learning  
Ensemble Learning  
Transfer Learning  
Reinforcement Learning  
RNN, CNN & GAN  
Markov-Chain & Monte-Carlo-Simulation  
Datasets and Evaluation  
Adaptive Systems  
Generalization as search  
Ontologies and Knowledge sharing  
Brain-inspired representations learning  
Business Intelligence and Data Mining techniques  
Intelligent algorithms for Fog and cloud-based Internet of Things  
Natural Language Processing  
Image processing and Video Analytics

#### B) Big Data Analytics and Data Science

Data, Text, Stream, Process & Network Mining  
Big Data Analytics Adoption  
Benefits of Big Data Analytics  
Barriers to Big Data Analytics  
Volume Growth of Analytic Big Data  
Managing Analytic Big Data  
Data Types for Big Data  
Data Engineering Techniques  
Collaborative Edge-Fog-Cloud Machine Learning Techniques  
Role of Hadoop ecosystem in data analytics and Business Intelligence (BI)  
Analysis data for visualization  
Scalar visualization techniques  
Framework for flow visualization  
System aspects of visualization applications  
Future trends in scientific visualization

#### Key Dates



Submission of Regular Papers and Special Session Papers  
**March 06, 2020**



Notification of Paper Acceptance  
**May 06, 2020**

#### C) Image Processing and Video Analytics

3D computer vision  
Action and behavior recognition  
Biometrics, face, gesture, body pose  
Image retrieval  
Motion and tracking  
Neural generative models, auto encoders, GANs  
Recognition (object detection, categorization)  
Representation learning, deep learning  
Scene analysis and understanding  
Segmentation, grouping and shape  
Transfer, low-shot, semi- and un- supervised learning  
Video analysis and understanding  
Vision + language, vision + other modalities  
Vision applications and systems, vision for robotics and autonomous vehicles  
Visual reasoning and logical representation

#### D) Speech Recognition and Understanding

Automatic speech recognition  
Spoken language understanding  
Speech-to-text systems  
Spoken dialog systems  
Multilingual language processing  
Robustness in automatic speech recognition  
Spoken document retrieval  
Speech-to-speech translation  
Text-to-speech systems  
Spontaneous speech processing  
Speech summarization  
New applications of automatic speech recognition

#### Technical Program Committee

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