Call for Papers
MDA-AI&PR 2021
16th International Conference on Mass Data Analysis of Images and Signals
with Applications in Medicine, r/g/b Biotechnology, Food Industries and Dietetics, Biometry
and Security, Agriculture, Drug Discover, and System Biology

www.mda-signals.de
July 11 – 13, 2021, New York, USA

Chair
Petra Perner
FutureLab Artificial Intelligence_IBaI_II
Institute of Computer Vision and applied Computer Sciences, IBaI

Program Committee

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<td>Patrick Wang</td>
<td>Northeastern University, USA</td>
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Aim of the Conference

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The automatic analysis of images and signals in medicine, biotechnology, System Biology, chemistry, biometry, drug discovery and information robots is a challenging and demanding field. Signal-producing procedures by microscopes, spectrometers and other sensors have found their way into wide fields of medicine, biotechnology, economy and environmental analysis. With this arises the problem of the automatic mass analysis of signal information. Signal-interpreting systems which generate automatically the desired target statements from the signals are therefore of compelling necessity. The continuation of mass analyses on the basis of the classical procedures leads to investments of proportions that are not feasible. New procedures and system architectures are therefore required. The scope of conference is to bring together researcher, praticioners, and industry people who are dealing with mass analysis of images and signals to present and discuss recent research in these fields.

The goals of this conference are to:
- provide a forum for identifying important contributions and opportunities for research on mass data analysis on microscopic images,
- promote the systematic study of how to apply automatic image analysis and interpretation procedures to that field
- show case applications of mass data analysis in biology, medicine, and chemistry.

Topics of interest include (but are not limited to):
• Applications in Medicine, r/g/b Biotechnology, Food Industries and Dietetics, Biometry and Agriculture
• Techniques and developments of signal and image producing procedures
• Object matching and object tracking in microscopic and video microscopic images
• 1D, 2D and 3D shape analysis and description
• 1D, 2D and 3D feature extraction of texture, structure and location
• Algorithms for 1D, 2D and 3D signal analysis and interpretation
• Image segmentation algorithms
• Parallelization of image analysis and interpretation algorithms
• Semantic tagging of microscopic images
• Applications in medicine, biotechnology, chemistry and others
• Applications in crystallography
• Applications in proteomics
• Applications in 2D and 3D cell images analysis
• Image Acquisition procedures for mass data analysis
• Methods and solutions for biometrical systems (Face-, Iris and Fingerprint Recognition)
• Recognition methods for moving objects (face, iris, body)
• Methods for data encryption (e.g. cryptotographic methods, watermarking)

Important Dates
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Deadline for paper submission: February 15, 2021
Notification of acceptance: March 18, 2021
Submission of camera-ready copy: April 05, 2021

Authors can submit their papers via an on-line reviewing system:
Please submit the PDF-File of your camera-ready paper through the COMMENCE conference management system (http://www.mda-signals.de/CMS/).
If you have any problems with the system please do not hesitate to contact info@mda-signals.de.
Papers must be formatted in the Springer LNCS format. They should have at most 15 pages. Papers will be reviewed by the program committee. Accepted papers will appear in the proceedings book "Advances in Mass Data Analysis of Images and Signals in Medicine, Biotechnology, Chemistry and Food Industry" published by ibai-publishing Prof. Dr. Petra Perner. It is an OPEN-ACCESS Book. Everyone in the world can freely access the book and study your paper.

Extended versions of selected papers will be published in a special issue of the Intern. Journal Transactions on Mass-Data Analysis of Images and Signals (ISSN: 1868-6451) after the conference.

Tutorials
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Tutorial Standardization in Immunoflourescence
Prof. Dr. Petra Perner, Institute of Computer Vision and Applied Computer Sciences IBaI,
http://www.mda-signals.de/t_stand.php

Data Mining Tutorial
Prof. Dr. Petra Perner, Institute of Computer Vision and Applied Computer Sciences IBaI,
http://www.data-mining-forum.de/t_dm.php

Case-Based Reasoning Tutorial
Prof. Dr. Petra Perner, Institute of Computer Vision and Applied Computer Sciences IBaI,
http://www.data-mining-forum.de/t_cbr.php

Intelligent Image Interpretation and Computer Vision in Medicine, Biotechnology, Chemistry & Food Industry
Prof. Dr. Petra Perner, Institute of Computer Vision and Applied Computer Sciences IBaI
http://www.data-mining-forum.de/t_iicv.php

Workshops (http://www.data-mining-forum.de/workshops.php)
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  * Workshop I-Business to Manufacturing and LifeScience B2ML 2021
  * Workshop on Data Mining in Marketing DMM 2021
  * International Workshop Case-Based Reasoning CBR-AI&PR 2021
  * Intern. Workshop on Multimedia Forensic Data Analysis Forensic 2021

Exhibition
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18th Industrial Exhibition on Intelligent Data and Image Analysis IEDA 2021
We like to invite you to present your company or publishing house at the Industrial Exhibition IEDA 2021 (www.iedaexhibition.de).

Sponsorship Opportunities
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If your organisation or company is interested in sponsoring the event please sent a mail to info@mda-singals.de.
We offer gold, silver, and bronze sponsorship opportunities. For more information, please visit http://www.mda-signals.de/sponsor.php.