Call for Contributions

Inform the Chair: with the Title of your Contribution
Submission URL:
https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=BIOTECHNO+2017+Special
Please select Track Preference as **BIOLEARN**

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Special track

BIOLEARN: Machine Learning for Biomedical Applications

Chair and Coordinator

Dipl.-Inform. Thomas Schmid, Universität Leipzig, Germany
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along with
BIOTECHNO 2017, May 21 - 25, 2017 - Barcelona, Spain
The Ninth International Conference on Bioinformatics, Biocomputational Systems and Biotechnologies
http://www.iaria.org/conferences2017/BIOTECHNO17.html

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In any leading IT technology, machine learning is a key player and modern biomedicine is no exception. Both supervised and unsupervised learning are not only applied in basic research like genomics and proteomics, but also in novel diagnostic tools to help and improve clinical needs. While combining big data and machine learning has already begun to transform biomedicine into a data-driven field, there are not only many breakthroughs and applications yet to come, but also much room for research and improvements left.

Within this special track, we aim to display current progress in biomedical machine learning from basic research to industry-ready software tools. State-of-the-art databases and intelligent data mining in metagenomics and protein-folding will be discussed, along with new algorithmic approaches in neural networks, random forests or self-organizing maps. Particularly welcome are innovative diagnostic tools for clinical needs and industry-level biomedical applications (e.g., drug design).

Subtopics expected for contributions (but not limited to):
- Data mining
- Biomedical databases
- Drug design
- Metagenomics
- Prediction of protein folding
- Intelligent biomedical diagnostics
- Neural networks
- Random forests
- Support vector machines
- Self-organizing maps

Important Datelines
- Inform the Chair: As soon as you decided to contribute
- Submission: ~~February 3~~ April 13
- Notification with comments for camera-ready: ~~March 3~~ April 20
- Registration: ~~March 18~~ April 29
- Camera ready: ~~April 9~~ April 29

Contribution Types

- Regular papers [in the proceedings, digital library]
- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on www.iaria.org]
- Presentations: slide only [slide-deck posted on www.iaria.org]
- Demos: two pages [posted on www.iaria.org]

Paper Format

- See: http://www.iaria.org/format.html
- Before submission, please check and comply with the editorial rules: http://www.iaria.org/editorialrules.html

Publications

- Extended versions of selected papers will be published in IARIA Journals: http://www.iariajournals.org
- Print proceedings will be available via Curran Associates, Inc.: http://www.proceedings.com/9769.html
- Articles will be archived in the free access ThinkMind Digital Library: http://www.thinkmind.org

Paper Submission

https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=BIOTECHNO+2017+Special
Please select Main topic as **BIOLEARN**

Registration

- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.
- Registration fees are available at http://www.iaria.org/registration.html

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