AIDP 2021

Artificial Intelligence for Digital Pathology

January 10, 2021 - Milano, Italy

in conjunction with the 25th International Conference on Pattern Recognition (ICPR), January 10-15, 2021, Milano, Italy,
http://prisca.unina.it/aidp2020/

Call for Papers

General Chairs
- *Nadia **Brancati**, ICAR-CNR, Italy.*
- *Giuseppe **De Pietro**, ICAR-CNR, Italy.*
- *Maria **Frucci**, ICAR-CNR, Italy.*
- *Maria **Gabrani**, IBM Research, Swithzerland.*
- *Daniel **Riccio**, University of Naples Federico II, Italy.*

Invited Speaker
- *Nasir **Rajpoot**, University of Warwick, UK.*
  - Professor of Computational Pathology at the University of Warwick
  - Honorary Scientist at the Department of Pathology, University Hospitals Coventry & Warwickshire (UHCW) NHS Trust
  - President of the European Congress on Digital Pathology (ECDP), which took place at Warwick in April 2019

Program Chair
- *Antonio **Foncubierta Rodriguez**, IBM Research, Swithzerland.*

Program Committee
- Gloria **Bueno**, *UCLM, Ciudad Real, Spain*
- Gerardo **Botti**, *IRCCS "Fondazione G.Pascale", Naples, Italy*
- Pau-Choo **Chung**, *National Cheng Kung University, Taiwan*
- Vincenzo **Della Mea**, *University of Udine, Italy*
- Cesare **Furlanello**, *Fondazione Bruno Kessler, Trento, Italy*
- Marcial **García-Rojo**, *SESCAM, Jerez, Spain*
- Orcun **Goksel**, *ETH Zurich, Switzerland*
- April **Khademi**, *Ryerson University, Toronto, Canada*
- Jin Tae **Kwak**, *Sejong University, Seoul*
- Geert **Litjens**, *Radboud University Medical Center, Nijmegen, The Netherlands*
- Francesco **Martino**, *University of Naples Federico II, Naples, Italy.*
- Francesco **Merolla**, *University of Molise,Campobasso, Italy*
- Henning **Müller**, *Institute of Information Systems, HES-SO Valais-Wallis, Switzerland*
- Pushpak **Pati,** *IBM Research, Zurich, Swithzerland*
- Josien P. W. **Pluim**, *Eindhoven University of Technology, The Netherland*
- Marcel **Prastawa**, *Icahn School of Medicine at Mount Sinai, New York, USA*
- Talha **Qaiser**, *University of Warwick, Coventry, UK*
- Peter **Schueffler**, *Sloan Kettering Institute, New York, USA*
- Korsuk **Sirinukunwattana**, *University of Oxford, UK*
- Stefania **Staibano,** *University of Naples Federico II, Naples, Italy.*
- David **Tellez**, *Radboud University Medical Center, Nijmegen, The Netherlands*
- Christine **Tanner**, *ETH Zurich, Switzerland*
- Kolzer **Viktor**, *Institute of Pathology and Molecular Pathology, University of Zurich, Switzerland*
- Peter **Wild**, *Institute of Pathology and Molecular Pathology, University of Zurich, Switzerland*

The Artificial Intelligence for Digital Pathology (AIDP 2021) is a satellite event of ICPR 2020 that will be held in Milano, Italy, September 13-18, 2020. AIDP 2021 will provide a forum for researchers from universities and companies involved in the ongoing research in the fields of digital pathology. In the following are reported some possible topics of interest:

- Staining quality assessment and standardization
- Detection and segmentation of tissue structures (cells, glands etc.)
- Classification of pathological tissues
- Scalable techniques for Whole-Slide Image processing
- Graph Nets for histology image representation
- Genotypes prediction from H&E images
- Semi and unsupervised learning methods for labeling requirements reduction
- Generation of synthetic histological images
- New annotated datasets
- Machine Learning and Deep Learning
- Multiple Instance Learning and Transfer Learning
- Ontologies and Interactive Machine Learning
- Explainable AI
- Other related topics

The scientific program of AIDP 2021 will consist of one-track session with technical contributions peer-reviewed and selected by an international Program Committee of leading experts in the fields. AIDP 2021 invites original previously unpublished contributions that are not submitted concurrently elsewhere. Submissions must be formatted in accordance with the Springer's Computer Science Proceedings guidelines (https://www.springer.com/gp/computer-science/lncs/conference-proceedings-guidelines).
Two types of contribution will be considered:
• Full papers (12-15 pages, including references)
• Short papers (6-8 pages, including references)

All accepted papers will be published in the Springer proceedings and the authors of accepted papers will be invited to present their work in the form of oral/poster presentations. All papers and presentations will be in English. Submission instruction are available here.

Important Dates
Submission deadline: October 10, 2020
Notification of acceptance: November 10, 2020
Camera-ready paper: November 15, 2020

Website
http://prisca.unina.it/aidp2020/

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