LABELS
Large-scale Annotation of Biomedical Data
and Expert Label Synthesis
Diana Mateus
Technische Universität München
Schedule

- 14:00-14:10 Welcome (Organisers)

- 14:10-15:00 Introductory Keynote by Marco Loog, TU Delft
  Dealing with Weakly and Partially Annotated Data.

- 15:00-16:00 Selected oral presentations (12 min + 5 min questions each)
  - Playsourcing: A Novel Concept for Knowledge Creation in Biomedical Research. Shadi Albarqouni*, Technische Universität München, Germany
  - Focused Proofreading to Reconstruct Neural Connectomes from EM Images at Scale. Stephen Plaza*, Janelia Research Campus, HHMI

- 16:00-16:30 Break

- 16:30-17:15 Keynote by Prof. Pascal Fua, EPFL
  Domain Adaptation for Microscopy Imaging

- 17:15-18:00 Poster session and Demos
  (Also including oral papers + possibility to run demos on computers)
Geography of LABELS accepted papers
LABELS in other words....
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Regression

“Expert labels vs Ground-truth”

Uncertainty?

Ambiguity?
LABELS in other words
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Opportunities:

- More **formal study** of the annotation problem
- **Active** interaction with experts
- **Unsupervised** data and few annotations
- Close the crowdsourcing + learning loop
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Dealing with Weakly and Partially Annotated Data

Prof. Marco Loog
Pattern Recognition Laboratory
TU Delft, The Netherlands
University of Copenhagen

Short bio
M.Sc. degree in mathematics from Utrecht University and a Ph.D. degree from the Image Sciences Institute. Copenhagen associate professor, next to which he worked at Nordic Bioscience. Pattern Recognition Laboratory at Delft University of Technology. He is also an honorary professor in pattern recognition at the University of Copenhagen.
Keynote: Domain Adaptation for Microscopy Imaging

Prof. Pascal Fua
Computer Vision Laboratory
EPFL Switzerland

Short bio
Pascal Fua received an engineering degree from Ecole Polytechnique, Paris, in 1984 and the Ph.D. degree in Computer Science from the University of Orsay in 1989.

He joined EPFL (Swiss Federal Institute of Technology) in 1996 where he is now a Professor in the School of Computer and Communication Science.

Before that, he worked at SRI International and at INRIA Sophia-Antipolis as a Computer Scientist. His research interests include shape modeling and motion recovery from images, analysis of microscopy images, and Augmented Reality. He has (co)authored over 300 publications in refereed journals and conferences. He is an IEEE Fellow and has been an Associate Editor of IEEE journal Transactions for Pattern Analysis and Machine Intelligence. He often serves as program committee member, area chair, and program chair of major vision conferences and has cofounded two spinoff companies.
LABELS in other words....