

# **LABELS 2018 Schedule**

## **Granada, Spain**

September 16<sup>th</sup>, 2018

9h30 – 10h00

Welcome and review of LABELS  
*Raphael Sznitman*

10h00 – 11h00

### Oral Presentations

Imperfect Segmentation Labels: How Much Do They Matter?  
*Nicholas Heller, Joshua Dean and Nikolaos Papanikolopoulos*

Capsule Networks against Medical Imaging Data Challenges  
*Amelia Jimenez-Sanchez, Shadi Albarqouni and Diana Mateus*

Weakly-Supervised Learning for Tool Localization in  
Laparoscopic Videos  
*Armine Vardazaryan, Didier Mutter, Jacques Marescaux, and Nicolas Padoy*

Radiology Objects in COntext (ROCO): A Multimodal Image  
Dataset  
*Obioma Pelka, Sven Koitka, Johannes Ruckert, Felix Nensa, and Christoph  
M. Friedrich*

### Spotlight Presentations

An Efficient and Comprehensive Labeling Tool for Large-Scale  
Annotation of Fundus Images  
*Jaemin Son, Sangkeun Kim, Sang Jun Park and Kyu-Hwan Jung*

Crowd disagreement of medical images is informative  
*Veronika Cheplygina and Josien P. W. Pluim*

Generation of a HER2 breast cancer gold-standard using  
supervised learning from multiple experts  
*Violeta Chang*

Crowdsourcing annotation of surgical instruments in videos of  
cataract surgery  
*Tae Soo Kim, Anand Malpani, Austin Reiter, Gregory D. Hager, Shameema  
Sikder, and S. Swaroop Vedula*

How can we do better? Pitfalls in biomedical challenge design  
and how to address them  
*Annika Reinke, Matthias Eisenmann, Sinan  
Onogur, Marko Stankovic, Patrick Scholz, Tal Arbel, Hrvoje Bogunovic,  
Andrew Bradley, Aaron Carass, Carolin Feldmann, Alejandro F Frangi,*

*Peter Full, Bram van Ginneken, Allan Hanbury, Katrin Honauer, Michal Kozubek, Bennett A Landman, Keno März, Oskar Maier, Klaus H. Maier-Hein, Bjoern Menze, Henning Müller, Peter F Neher, Wiro Niessen, Nasir Rajpoot, Gregory Sharp, Korsuk Sirinukunwattana, Stefanie Speidel, Christian Stock, Danail Stoyanov, Abdel Aziz Taha, Fons van der Sommen, Ching-Wei Wang, Marc-Andre Weber, Guoyan Zheng, Pierre Jannin, Anette Kopp-Schneider and Lena Maier-Hein*

A tracking-based method for video and volume annotation with sparse point supervision

*Laurent Lejeune, Jan Grossrieder, and Raphael Sznitman*

**MelaGo: Gamifying Medical Image Annotation**

*Vassilis Javed Khan, Pim Meijer, Michele Paludetti, Reka Magyari, Dominique van Berkum and Veronika Cheplygina*

Crowdsourcing surgical activity summaries for phase recognition

*Anand Malpani, Saranga Arora, S. Swaroop Vedula, Chi Chiung Grace Chen and Gregory D. Hager*

11h00 – 11h30

Coffee Break and & Poster Session

11h30 – 12h30

**Keynote Talk**

Quantifying the observer variability in volumetric structure segmentations: a large-scale study and a method

*Prof. Dr. Leo Joskowicz (Hebrew University, Israel)*

12h30 – 13h30

Joint workshop paper writing session (Interactive Session 1)

13h30 – 15h00

Lunch break

15h00 – 16h00

**Keynote Talk**

Challenging Conventional Segmentation Evaluation Metrics in the context of Focal Pathology (e.g. lesion) Segmentation from Patient Images

*Prof. Dr. Tal Arbel (McGill University, Canada)*

16h00 – 16h30

Oral Presentations

Feature learning based on visual similarity triplets in medical image analysis: A case study of emphysema in chest CT scans

*Silas Nyboe Ørting, Jens Petersen, Veronika Cheplygina, Laura H. Thomsen, Mathilde M. W. Wille and Marleen de Bruijne*

Deep Learning Retinal Vessel Segmentation From a Single Annotated Example: An Application of Cyclic Generative Adversarial Neural Networks

*Praneeth Satta, John A. Onofrey, and Xenophon Papademetris*

Spotlight Presentations

Improving out-of-sample prediction of quality of MRIQC

*Oscar Esteban, Russell A. Poldrack and Krzysztof J. Gorgolewski*

DeepLesion: a Diverse and Large-scale Database of Significant Radiology Image Findings

*Ke Yan, Xiaosong Wang, Le Lu, Ling Zhang, Mohammadhadi Bagheri and Ronald M. Summers*

Generating labels to solve inverse problems in computational biophotonics

*Anant Vemuri, and Lena Mair-Hein*

MVOR: A Multi-view RGB-D Operating Room Dataset for 2D and 3D Human Pose Estimation

*Vinkle Srivastav, Thibaut Issenhuth, Abdolrahim*

*Kadkhodamohammadi, Michel de Mathelin, Afshin Gangi, and Nicolas Padoy*

*16h30 – 17h00*

Coffee Break and & Poster Session

*17h00 – 18h45*

Joint workshop paper writing session (Interactive Session 2)

*18h45 – 19h00*

Closing session and award ceremony