

**Sunday, 04.11.2018**

18:00 onwards	<b>Welcoming meeting</b>
---------------	--------------------------

**Monday, 05.11.2018**

09:00 – 09:15	<b>Opening ceremony</b>		Prof. Piotr Ładyżyński
09:15 – 10:15	<b>Inaugural lectures</b>		<u>Marcial Garcia-Rojo, MD, PhD</u>
	09:15 – 09:40	<i>Understanding deep convolutional networks</i>	Prof. Anna Korzyńska
	09:45 – 10:10	<i>Digital phase pathology: concepts and prospects</i>	Prof. Małgorzata Kujawińska
10:15 – 10:45	<b>Coffee break</b>		
10:45 – 13:15	<b>1<sup>st</sup> Session</b>	<b>Introduction to Artificial Intelligence</b>	<u>Prof. Domenec Puig</u>
	10:45 – 11:30	<i>Introduction to neural networks and deep learning</i>	Łukasz Roszkowiak, MSE
	11:35 – 12:20	<i>Integrating automatic image analysis and next generation sequencing data in breast cancer</i>	Marcial Garcia-Rojo, MD, PhD
	12:25 – 13:10	<i>Deep learning methods for lymphocyte detection</i>	Żaneta Świdorska-Chadaj, PhD
13:15 – 13:30	<b>Presentation</b>		COMTEGRA
13:30 – 14:15	<b>Lunch</b>		
14:15 – 14:30	<b>Coffee break</b>		
14:30 – 16:00	<b>2<sup>nd</sup> Session</b>	<b>What does pathology need from Artificial Intelligence?</b>	<u>Marylene Lejeune, PhD</u>
	14:30 – 14:55	<i>Tissue pathology, mining deeper with imaging and analytics</i>	Prof. Arvydes Laurinavicius
	15:00 – 15:25	<i>What pathologists expect from digital pathology?</i>	Michał Pyzłak, PhD, MD, Jarosław Wejman, PhD, MD
	15:30 – 15:55	<i>Comparisons of computer-aided image analysis procedures: agreement, reliability and predictive potential of microenvironment immune markers in triple negative breast cancer</i>	Carlos Lopez, PhD
16:00 – 16:30	<b>Coffee break</b>		
16:30 – 18:00	<b>3<sup>rd</sup> Session</b>	<b>Short reports from investigations</b>	<u>Prof. Włodzimierz Klonowski</u>
	16:30 – 16:55	<i>Diagnostic and surgical dilemmas in cancer therapy</i>	Prof. Jacek Zieliński
	17:00 – 17:15	<i>Spectra of input-output Jacobians in deep residual networks</i>	Wojciech Tarnowski, MSC
	17:20 – 17:35	<i>Nuclei detection in breast cancer cytology based on stochastic geometry and convolutional neural network</i>	Prof. Marek Kowal
	17:40 – 17:55	<i>Evaluation of morphological analysis in grain quality screening</i>	Marek Krótkiewicz, PhD
18:15 onwards	<b>Getting together – dinner</b>		

Tuesday, 06.11.2018

09:30 – 11:30	<b>4<sup>th</sup> Session</b>	<b><i>Supporting diagnosis with Artificial Intelligence</i></b>	<u>Prof. Arvydes Laurinavicius</u>
	09:30 – 09:55	<i>Personalized breast cancer treatment by determining the molecular subtype and modelling of relapse through computer digital image processing</i>	Prof. Domenec Puig
	10:00 – 10:25	<i>The latest results in diagnosis based on nonlinear analysis of brain neurodynamics</i>	Prof. Włodzisław Duch
	10:30 – 10:55	<i>Deep learning in pathology: two experiments with different outcome</i>	Prof. Vincenzo Della Mea
	11:00 – 11:25	<i>Glomerulus classification and detection based on convolutional neural networks</i>	Prof. Gloria Bueno
11:30 – 12:00	<b>Coffee break</b>	<b>Poster session</b>	<u>Jakub Žak, MSE</u>
		<i>The proliferation index estimation with MetPiKi and QuPath software in neurohistological samples</i>	Krzysztof Siemion, MD
		<i>Assessing the impact of the techniques of suturing subcutaneous tissue on the course of healing of surgical site in patients over the age of 60 treated for gastrointestinal cancers</i>	Prof. Jacek Zieliński
12:00 – 13:30	<b>Discussion panel</b>	<b><i>How to facilitate a flow of ideas between pathology and AI groups?</i></b>	<u>Joanna Kinasiewicz, PhD</u>
		Prof. Domenec Puig	
		Prof. Włodzisław Duch	
		Prof. Arvydes Laurinavicius	
		Marcial Garcia-Rojo, MD, PhD	
		Jan Poleszczuk, PhD	
13:30 – 15:00	<b>Lunch</b>		
15:00 – 16:30	<b>5<sup>th</sup> Session</b>	<b><i>Short reports from investigations</i></b>	<u>Prof. Włodzisław Duch</u>
	15:00 – 15:25	<i>Simple methods of computer-aided analysis of histopathological images for tumor diagnosis</i>	Prof. Włodzimierz Klonowski
	15:30 – 15:45	<i>Digital pathology-informed in silico screening of combinatorial therapies in cancer</i>	Jan Poleszczuk, PhD
	15:50 – 16:05	<i>Digital Holographic Microscopy – benefits and difficulties from the machine learning perspective</i>	Piotr Stępień, MSE
	16:10 – 16:25	<i>A novel approach of finding human teeth in panoramic dental radiographs</i>	Jakub Žak, MSE
16:30 – 16:45	<b>Closing ceremony</b>		Prof. Dorota Pijanowska
18:00 onwards	<b>Social event – Concert Hall</b>		