

Sapt.	Data	Curs	Lab 32211	Lab 32212
1	15.02.22	Introducere	Organizare	
2	22.02.22	Probability Review <b>Cornea Iulia</b> Bayesian Networks <b>Elekes Lukacs</b> Recurrent neural networks <b>Trif Mariana</b>		Organizare
3	01.03.22	Markov Models <b>Monea Andreea</b> Robot Environment Interaction and Bayes Filters <b>Popa Oana</b> Attention and Transformers <b>Ceuca Laura</b>	-SelfFlow: Self-Supervised Learning of Optical Flow (2019) <b>Chisca Andrei</b> -Digging Into Self-Supervised Monocular Depth Estimation (ICCV 2019) <b>Chindea Miruna</b>	
4	8.03.22	<b>Gaussian Filters</b> The Kalman Filter <b>Corches Paul Cristian</b> The Extended Kalman Filter <b>Chisca Andrei</b> The information filter <b>Sbera Catalin</b> Generativ Models <b>Spaniol Horatiu</b>		-Video Panoptic Segmentation (CVPR 2020) <b>Salceanu Elena</b> -Attention Is All You Need (NIPS 2017) <b>Monea Andreea</b> -Language Models are Few-Shot Learners <b>Vasiliniuc Mircea</b>
5	15.03.22	<b>Nonparametric Filters</b> The Histogram Filter <b>Chindea Miruna</b> The Particle Filter 1 <b>Iosif Andrei</b> The Particle Filter 1 <b>Maier Manuel</b> Self-supervised learning <b>Timu Vlad</b>	- Cross-Dataset Adaptation for Visual Question Answering (CVPR 2018), <b>Ilies Andreea</b> - RSVQA: Visual Question Answering for Remote Sensing Data (TGRS 2020) <b>Baciu Lidia</b> - A Simple Framework for Contrastive Learning of Visual Representations <b>Corches Paul Cristian</b>	
6	22.03.22	<b>Robot Motion</b> Velocity Motion Model <b>Salceanu Elena Teodora</b> Odometry Motion Model <b>Indricut Andrei</b> Scene graphs <b>Baciu Lidia</b>		-An image is worth 16x16 words: transformers for image recognition at scale (ICLR 2021) <b>Muresan Daiana</b> -DETR: End-to-End Object Detection with Transformers (ECCV 2020) <b>Timu Vlad</b> - Emerging Properties in Self-Supervised Vision Transformers (2021) <b>Morar Stefan</b>
7	29.03.22	<b>Measurements</b> Beam Models of Range Finders <b>Vasiliniuc Mircea</b> Likelihood Fields for Range Finders <b>Ficiuc Sebastian</b>	- PointPillars: Fast Encoders for Object Detection from Point Clouds (CVPR 2019) <b>Indricut Andrei</b> -End-to-End Multi-View Fusion for 3D Object Detection in LiDAR	

		Correlation and Feature Based Sensor Models ????????????????	Point Clouds CoRL 2019) <b>Filip Paul</b> -Pillar-based Object Detection for Autonomous Driving (ECCV 2020) <b>Lung Paula</b>	
8	05.04.22	<b>Mobile Robot Localization</b> Markov Localization ???????????????? EKF Localization <b>Calacean Ioan</b> Estimating Correspondences and Multi-Hypothesis Tracking ????????????????		-Cross-Modal Visual Question Answering for Remote Sensing Data (DICTA 021) <b>Trif Marina</b> - RandLA-Net: Efficient Semantic Segmentation of large-Scale Point Clouds (CVPR 2020) <b>Oltean Stefan</b> -Unsupervised Learning of Depth and Ego-Motion from Video (CVPR 2017) <b>Rednic Paul</b>
9	12.04.22	<b>Grid and Monte CARLO Localization</b> Grid Localization <b>Morar Stefan</b> Monte Carlo Localization <b>Ilies Andreea</b> Localization in Dynamic Environments <b>Mateiu Patricia</b>	-Center-based 3D Object Detection and Tracking (CVPR 2021) <b>Elekes Lukacs</b> - Self-supervised Object Motion and Depth Estimation from Video (CVPR 2020) <b>Baietan Alexandru</b>	
10	19.04.22	<b>Occupancy Grid Mapping</b> The Occupancy Grid Mapping Alg. ???????????????? Learning Inverse Measurement Models ???????????????? Maximum a Posterior Occupancy Mapping ????????????????		-Excavating the Potential Capacity of self-Supervised Monocular Depth Estimation (ICCV 2021) <b>Spaniol Horatiu</b>
11	03.05.22	<b>Simultaneous Localization and Mapping</b> SLAM with Extended Kalman Filters ???????????????? EKF SLAM with Unknown Correspondences <b>Oltean Stefan</b>	-UNSUPERVISED REPRESENTATION LEARNING BY REDICTING IMAGE ROTATIONS (ICLR 2018) <b>Ceuca Laura</b> - Self-supervised video object segmentation sing integration-augmented attention <b>Mateiu Patricia</b> - Self-Supervised_Multi-Frame_Monocular_Scene_Flow (CVPR 2021) <b>Iosif Andrei</b>	
12	10.05.22	<b>Tracking</b> <b>Rednic Paul</b>		

13	17.05.22	<b>Planning and Navigation</b> ????????????????????	-Efficient Video Semantic Segmentation with Labels Propagation and refinement Ficiuc Florin Sebastian	
	24.05.22			