

Robotics 1 Videos

http://www.diag.uniroma1.it/deluca/rob1_en.php

This is the list of videos shown in classroom (with approximate file sizes). Videos are grouped in folder.zip files, with the same numbering used for the lecture slides they refer to.

For a correct visualization one needs QuickTime Player, VLC Media Player or Windows Media Player, with the proper codecs.

Labeled in red are videos related to research (or educational) activities by members of the Robotics Laboratory at DIAG.

Other videos of the DIAG Robotics group can be found on the Laboratory YouTube Channel www.youtube.com/user/RoboticsLabSapienza and/or on the web page at www.diag.uniroma1.it/labrob/research/research.html

Version: October 5, 2020

Folder/Slides (zipped size)	List of videos (unzipped size)
00a (13.5M) 3 files	ICRA12_SNS.mp4 (4.3M) – video DIAG/Stanford Avoiding joints limits.mp4 (5.1M) ICRA12.mp4 (4.3M) – video DIAG/Stanford
00b (179.1M) 3 files	milad.mov (210.4M) – video DIAG UR10_FTsensor.mp4 (10.4M) – video DIAG KUKA KR4 Agilus.mov (37.1M)
00c (46M) 6 files	LBR_iiwa_-_Teaching_Positions.mp4 (11.4M) LBR_iiwa_-_Performance_and_Flexibility_via_Compliance.mp4 (5.2M) LBR_iiwa_-_Programmable_Compliance.mp4 (9.4M) LBR_iiwa_-_Examples_of_Programmed_Compliance.mp4 (6.5M) LBR_Feature_-_Programming_by_Demonstration.mp4 (7.6M) LBR_iiwa_-_Teaching_by_Demonstration.mp4 (12.8M)
00d (223.3M) 3 files	kuka_log_zp_new.mov (12.4M) – video DIAG ICRA14_Data_acquisition.avi (117.5M) – video DIAG Universal Robots Task movie 2016.mp4 (93.5M)
00 1 file extra	Robots – The journey continues on Vimeo.mov (99M) https://vimeo.com/173394878
01a (124.6M) 2 files	50YearsRoboticsMD.WMV (118.6M) LWR4_VREP.avi (17.5M) – video DIAG

01b (139.1M) 14 files	ABB_IRB7600_ShortCom.mov (2.9M) PlasmaCutting_RobotCell.flv (21.2M) ABB_Laxa_Kunddagar_MultiMove_2005.mpg (13.5M) Kawasaki_Formaggi.mpg (16.1M) Adami_Comau_DeburringCenter.flv (12.6M) ABB SafeMove with MultiMove.wmv (10M) HighSpeed_Adept_Cobrai600.flv (6.6M) ABBFlexPicker.mpg (7.4M) Adept_Quattro_s650_PackagingChocolates.flv (12M) Comau_6-axis.mp4 (1.9MB) ABB_FantaCanChallenge_Level2MotionControl.mp4 (5.5M) Foster-Coll-Short.wmv (14.6M) ADAM Marketing Video.mp4 (5.9M) FRANKA EMIKA REVOLUTION.mp4 (25M)
01c (57.9M) 12 files	BMW i3 Production - Part 2_trim1_Pick&Place1.mov (4M) BMW i3 Production - Part 2_trim2_Pick&Place1.mov (1.8M) BMW i3 Production - Part 2_trim3_Pick&PlaceWithHuman.mov (9.7M) BMW i3 Production - Part 2_trim4_MetalCutting.mov (4.4M) BMW i3 Production - Part 3_trim1_GlueDeposit.mov (4.5M) BMW i3 Production - Part 3_trim2_6RobotsCarBody.mov (12.6M) BMW i3 Production - Part 3_trim3_RustProtection.mov (4.1M) BMW i3 Production - Part 3_trim4_Painting1.mov (2.9M) BMW i3 Production - Part 3_trim5_Painting2.mov (3.4M) BMW i3 Production - Part 4_trim1_HoodDeburring.mov (5.4M) BMW i3 Production - Part 4_trim2_DashboardAssembly.mov (2.2M) BMW i3 Production - Part 4_trim3_TestMeasurements.mov (3.2M)
01d (3.3M) 2 files	Unimation_oldvideo1.mov (1.3M) Unimation_oldvideo2.mov (2M)
01e (12.1M) 1 file	Industrial_Robotics.mp4 (12.3M)
02a (117M) 12 files	ASIMO.mov3-c.mov (4.1M) ASIMOWalking_backwards.mov (280K) CollisionDetectionDLRIII.mpg (2M) - video DIAG/DLR Justin.mp4 (49.3M) NAOPlaytime.mov (13.4M) Operating Microwave.avi (4.6M) Rotex_short.mov (29.5M) SarcosTeleOpArm.mov (5.5M) SecondDance.MOV (32.7M) Stuck Mars Rover About to Die_short.mp4 (1.8M) toulouse_hoap-3.mp4 (2.8M)

	Wiping Kitchen.avi (7.8M)
02b (108.5M) 19 files	3D One-Leg Hopper Robot.mp4 (288K) ABB-Roboter beim Bierausschank_trimmed.mov (4.8M) Adept robot in sausage packaging application.mp4 (2.2M) Canadarm2 Grapple of Spacelab Pallet.mp4 (3.4M) DARPA_BlueTeam_cut.mp4 (7.3M) DARPA_VWStanley.mp4 (8.9M) Dextrous Hand for the iCub.flv (0.9M) Helpmate_Hospital.mp4 (3M) HUSQVARNA AUTOMOWER_official.flv (6.7M) iRobot Roomba 560 official video demo.flv (8M) KUKA Ping Pong Robot.flv (2.4M) KUKA Weiss Bier.flv (2.9M) Planar Biped robot flip.mp4 (164K) Robots_on_ISS(esp).flv (24.2M) Robovolc_Etna_2003.avi (2.9M) Robovolc_TrackedRover_2003.avi (468K) SAUVIM_SD023_CableHooking_oct2006.flv (10.5M) UBC_Gavia_Laval_underwater.flv (2.9M) UBHand3Glove.avi (14M)
02c (29.2M) 1 file	PISA IIT Soft Hand IJRR2014.mov (29.5M)
03 (22.8M) 7 files	Direct_Current_Electric_Motor.mp4 (0.9M) Epicycloidal_Gear_Train.mp4 (2.2M) Inside Axis 4,5&6 of KUKA KR5 Robot_trim0.mov (5.7M) Inside Axis 4,5&6 of KUKA KR5 Robot_trim2.mov (4.9M) Planetary_Gear_Set.mp4 (1,4M) Racks_and_Pinion.mp4 (0.4M) Strain_wave_gear_principle_Harmonic_Drive_AG.mp4 (8M)
04 (5.5M) 1 file	Fanuc_robot_accuracy_repeatability_test.mp4 (5.6M)
05a (60.9M) 13 files	2006-dionnet-APFR-AV3D-monocular.mpg (1.3M) 2009-IRISA_VisServoing_JointLimits.avi (3.2M) ABB Assembly wForceControl.wmv (3.5M) FT for Surface Finishing.wmv (2.5M) How the Kinect Depth Sensor Works in 2 Minutes.mp4 (6M) ICRA08_VisServoing_Magellan.mp4 (7.9M) – video DIAG MovingPlate2.mp4 (1.9M) Nomad_NarrowPass.avi (8.7MB) – video DIAG RCC_ATI_demo.wmv (1.4M) RestToRest_OneLink.MPG (1M) – video DIAG SLAM_bruceton-one-loop.avi (1M) SLAM_GMapping_MIT 2005-07.mp4 (3.1M) Visual Tracking.avi (35.7M)
05b (60.1M)	BallBatting_UTokyo_up.mov (2.6M)

5 files	DynamicCatch_UTokyo_handy_trim.mov (2.5M) IROS13_avoidance_trimmed_notitle.mov (35M) – video DIAG rgb_depth.mp4 (6.9M) – video DIAG Ultra High-speed Robot Based on 1 kHz Vision System _UTokyo_trim.mov (0.6M)
05c (8.2M) 2 files	Halley Machine Vision - RA.ZE Bin Picking of T-Nuts with Gocator.mp4 (3.5M) Smart automated bin picking with Pick-it 3D_edit.mp4 (4.7M)
06 (39.4M) 5 files	ciclicitàMontaggio.mp4 (19.4M) – video DIAG discrete_time_velocity_control_design_R&AS.mp4 (4.1M) – video DIAG IPA_Garbage_FullyAutomatic.m4v (9.3M) – video DIAG/Fraunhofer IPA_Garbage_SemiAutomatic.m4v (3.7M) – video DIAG/Fraunhofer Magrini_inter2.mp4 (4.9M) – video DIAG
09 (25.7M) 2 files	DenavitHartenberg_Reference_Frame_Layout.mp4 (26.7M) Sankyo_SCARA.mp4 (0.5M)
09ex (148.5M) 3 files	ICRA14_Data_acquisition.avi (117.5M) – video DIAG ICRA14_Torque_validation_experiment.avi (18.5M) – video DIAG LWR4_VREP.avi (17.5M) – video DIAG
10 (9.8M) 2 files	SelfMotion_Dexter.AVI (4.5M) – video DIAG UR10_inv_kin.wmv (9.1M) – video DIAG
13 (6.4M) 7 files	BoundedJerk.mp4 (6.7M) Cartesian square path trapezoidal speed profile_0.5speed.mp4 (0.1M) Cartesian square path without speed profile.mp4 (0.1M) Going and stopping through a singularity.mp4 (0.1M) Joint space motion.mp4 (0.1M) Linear Cartesian path_Bezier interpolated.mp4 (0.1M) Linear Cartesian path.mp4 (0.1M)
14 (35.1M) 3 files	kuka_log_ap_new.mov (13.1M) – video DIAG kuka_log_t7_trimmed.mov(9.6M) – video DIAG kuka_log_zp_new.mov (12.4M) – video DIAG
15 (3.7M) 2 files	discrete_time_velocity_control_design_R&AS.mp4 (4.1M) – video DIAG Resolved_rate_algorithm.wmv (1.1M) – video DIAG