

Schedule for Image and System Analysis (FK7064) 9 hp, HT 2022

Activities marked in red are mandatory to attend

Week	Day	Date	Time	Teaching activity	Teacher	Room	Literature*
35	Monday	29.08	10:00-12:00	Introduction to image analysis	ML	MSF	1
			13:00-14:00	Introduction to the clinical practice	EKL		
	Tuesday	30.08	09:00-12:00	Imaging fundamentals	AK	MSF	
	Wednesday	31.09	09:00-12:00	Spatial domain techniques	AK	MSF	3
37	Thursday	01.09	09:00-12:00	Frequency domain techniques	AK	MSF	4
	Monday	05.09	09:00-12:00	Filtering in the frequency domain Calculation exercises	AK	MSF	
	Tuesday	06.09	09:00-12:00	Introduction to the Matlab exercises	ASC	MSF	5
	Wednesday	07.09	09:00-15:00	<i>Laboratory exercise 1: Spatial & frequency domain techniques</i>	ASC	Computer room	
38	Thursday	08.09	09:00-12:00	Image restoration and tomography	AK	MSF	5
	Monday	12.09	09:00-11:00	The eye + Colour image processing	AK	MSF	6 and 2(eye)
			11:00-12:00	Calculation exercises	AK	MSF	
	Wednesday	14.09	09:00-12:00	Image compression	AK	MSF	8
39	Monday	19.09		Medical image formats and coordinate systems	CW	Flipped class	2.4.2-2.4.3
				Image segmentation	CW		9.1-9.3, 10.3.1
							10.4-10.5
	Wednesday	21.09		Image registration	RM	MSF	
			13:00-14:00	Image segmentation – Tutoring and discussions	MA		
			14:00-16:00	<i>Laboratory exercises 2 – Image segmentation</i>	MA		
	Thursday	22.09	10:00-12:00	Visualization and applications	ÖS	MSF	
			13:00-15:00	<i>Laboratory exercises 3 - Visualization and applications</i>	ÖS	Computer room	
	Friday	23.09	13:00-14:00	Image registration – Tutoring and discussions	RM	MSF	
			14:00-16:00	<i>Laboratory exercises 4 - Image registration</i>	RM	Computer room	
40	Monday	26.09	10:00-12:00	Statistics 1	C-BL	MSF	Lecture notes
	Tuesday	27.09	10:00-12:00	Statistics 2	C-BL	MSF	Lecture notes
	Wednesday	28.09	09:00-10:00	Visual grading	ÖS	MSF	
			10:00-12:00	Receiver operating characteristic (ROC) analysis	IT-D	MSF	Lecture notes
41	Wednesday	05.10	09:00-14:00	Exam		MSF	

* Chapter number in Gonzalez & Woods: Digital image processing - Fourth edition

Lecturers:

MA	Mehdi Astaraki, PhD student, School of Technology and Health, KTH, Stockholm
EKL	Emely Kjelsson Lindblom, Senior Lecturer, Stockholm University
C-BL	Chun-Biu Li, Associate Professor, Stockholm University
ML	Marta Lazzeroni, Senior Lecturer, Stockholm University
RM	Rodrigo Moreno, Associate Professor, School of Technology and Health, KTH, Stockholm
ASC	Ana Sagués Carracedo, PhD student, Stockholm University
ÖS	Örjan Smedby, Professor, School of Technology and Health, KTH, Stockholm
AK	Alexander Krikun, Assistant Professor, NORDITA, Stockholm
IT-D	Iuliana Toma-Dasu, Professor, Stockholm University
CW	Chunliang Wang, Associate Professor, School of Technology and Health, KTH, Stockholm

Literature:

Gonzalez & Woods: Digital image processing - Fourth edition