Date	Lecture	Reading		HW OUT	H vv due
_	Introduction to Computational imaging				
1/22	- Forward problems	IIP 1		HW 1: Review of 2D FT	
(W)	- Inverse problems				
1/27	Basics for Forward problem in linear shift-invariant imaging				
1/2/	- Fourier analysis	IIP 2.1, 2.2,			
(171)	- linear operators and its adjoint	5			
1/29	Forward problem in linear operator form for shift-invariant imaging				
1/25 (W)	- linear operators and its adjoint	Annx A-B			
(,					
	Forward problem in linear operator form for shit-invariant imaging				
2/3	- sampling	IIP 2.4-2.7		HW2: LSI imaging 1	HW1
(M)	- convolution matrix and its properties				
- 4	Forward problem in linear operator form for shit-invariant imaging				
2/5	- sampling	IIP 2.3,			
(VV)	- convolution matrix and its properties	Аррх. А-В			
2/10	Forward problem in linear operator form for shit-invariant imaging				
2/10	- sampling	IIP 2.4-2.7			
(171)	 convolution matrix and its properties 				
	Forward problem in matrix form				
2/12	- sampling				
(W)	 convolution matrix and its properties 	IIP 2.4-2.7			
	 Eigenvalue decomposition & transfer function relations 				
	Forward problem in matrix form				
2/18	- sampling			HW/ 2: ISI imaging 2	
(T)	 convolution matrix and its properties 	IIF 2.4-2.8		Trivi 5. LSI III aging 2	1100 2
	 Eigenvalue decomposition & transfer function relations 				
	Forward problem in matrix form				
2/19	- sampling	IIP 2 4 2 9			
(W)	- convolution matrix and its properties	IIF 2.4-2.8			
	- Eigenvalue decomposition & transfer function relations				
	Group project topi	cs out - star	t grouping		
2/24	Linear inversion LSI	IIP 5			
(M)	- ill-posed vs ill-condition problems	IIP Appx. F			
(,	- deconvolution				
2/26	Linear inversion LSI	IIP 5			
(W)	- ill-posed vs ill-condition problems	IIP Appx. E			
· /	- deconvolution				
3/3	Linear inversion LSI	IIP 5			
(M)	- ill-posed vs ill-condition problems	IIP Appx. E		HW 4: LSI imaging 3	HW3
. ,	- deconvolution				
3/5	Linear inversion LSI	IIP 5			
(W)	- ill-posed vs ill-condition problems	IIP Appx. E			
、 ,	- deconvolution				
	End of group pro	oject topic se	election		
	End of group pro	3/10-3/14	election		
	End of group pro Spring Recess (3	5/10-3/14)	election		
	End of group pro Spring Recess (3	6/10-3/14)	election		
3/17	End of group pro Spring Recess (3 Forward problem for shift-variant imaging	IIP 8 IIP 9.1-9.2	election		
3/17 (M)	End of group pro Spring Recess (3 Forward problem for shift-variant imaging - operator & matrix form	IIP 8 IIP 9.1-9.2 IIP Appx. A-	election	HW 5: LSV imaging 1	HW 4
3/17 (M)	End of group pro Spring Recess (3 Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition	IIP 8 IIP 9.1-9.2 IIP Appx. A- D	election	HW 5: LSV imaging 1	HW 4
3/17 (M)	End of group pro Spring Recess (3 Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition	IIP 8 IIP 9.1-9.2 IIP Appx. A- D		HW 5: LSV imaging 1	HW 4
3/17 (M) 3/19	End of group pro Spring Recess (3 Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem for shift-variant imaging	IIP 8 IIP 9.1-9.2 IIP Appx. A- D IIP 8 IIP 9.1-9.2	election	HW 5: LSV imaging 1	HW 4
3/17 (M) 3/19 (W)	End of group pro Spring Recess (3 Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem for shift-variant imaging - operator & matrix form	IIP 8 IIP 9.1-9.2 IIP Appx. A- D IIP 8 IIP 9.1-9.2 IIP 8 IIP 9.1-9.2 IIP Appx. A-	election	HW 5: LSV imaging 1	HW 4
3/17 (M) 3/19 (W)	End of group pro Spring Recess (3 Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition	IIP 8 IIP 9.1-9.2 IIP Appx. A- D IIP 8 IIP 9.1-9.2 IIP 8 IIP 9.1-9.2 IIP Appx. A- D	election	HW 5: LSV imaging 1	HW 4
3/17 (M) 3/19 (W)	End of group pro Spring Recess (3 Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition	IIP 8 IIP 9.1-9.2 IIP Appx. A-D IIP 9.1-9.2 IIP Appx. A-D IIP 8 IIP 9.1-9.2 IIP 8 IIP 9.1-9.2 IIP 8 IIP 9.1-9.2 IIP 8 IIP 9.1-9.2 IIP Appx. A-D	election	HW 5: LSV imaging 1	HW 4
3/17 (M) 3/19 (W) 3/24	End of group pro Spring Recess (3 Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Inverse problem of LSV -Least square solution	IIP 8 IIP 9.1-9.2 IIP Appx. A-D IIP 9.1-9.2 IIP Appx. A-D IIP 9.1-9.2 IIP 9.1-9.2 IIP 9.1-9.2 IIP 10.1-		HW 5: LSV imaging 1	HW 4
3/17 (M) 3/19 (W) 3/24 (M)	End of group pro Spring Recess (3 Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Inverse problem of LSV -Least square solution - Tikhonov regularization	IIP 8 IIP 9.1-9.2 IIP Appx. A-D IIP 9.1-9.2 IIP 8 IIP 9.1-9.2 IIP 8 IIP 9.1-9.2 IIP 10.1- 10.3	election	HW 5: LSV imaging 1	HW 4
3/17 (M) 3/19 (W) 3/24 (M)	End of group pro Spring Recess (3 Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD	IIP 8 IIP 9.1-9.2 IIP Appx. A-D IIP 9.1-9.2 IIP Appx. A-D IIP 10.1- 10.3 IIP Appx. E	election	HW 5: LSV imaging 1	HW 4
3/17 (M) 3/19 (W) 3/24 (M)	End of group pro Spring Recess (3 Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV	IIP 8 IIP 9.1-9.2 IIP Appx. A-D IIP 9.1-9.2 IIP Appx. A-D IIP 10.1- 10.3 IIP Appx. E		HW 5: LSV imaging 1	HW 4
3/17 (M) 3/19 (W) 3/24 (M) 3/26	End of group pro Spring Recess (3 Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV -Least square solution	IIP 8 IIP 9.1-9.2 IIP Appx. A-D IIP 9.1-9.2 IIP 8 IIP 9.1-9.2 IIP 8 IIP 9.1-9.2 IIP 10.1- 10.3 IIP Appx. E		HW 5: LSV imaging 1	HW 4
3/17 (M) 3/19 (W) 3/24 (M) 3/26 (W)	End of group pro Spring Recess (3 Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV -Least square solution - Tikhonov regularization	IIP 8 IIP 9.1-9.2 IIP Appx. A-D IIP 9.1-9.2 IIP Appx. A-D IIP 10.1- 10.3 IIP 10.1- 10.3 IIP 10.1- 10.3 IIP 10.1- 10.3		HW 5: LSV imaging 1	HW 4
3/17 (M) 3/19 (W) 3/24 (M) 3/26 (W)	End of group pro Spring Recess (3 Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem for shift-variant imaging - operator & matrix form - operator & matrix form - singular value decomposition Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV -Least square solution - Tikhonov regularization - Tikhonov regularization - Tikhonov regularization - truncated SVD	IIP 8 IIP 9.1-9.2 IIP Appx. A-D IIP 9.1-9.2 IIP Appx. A-D IIP 10.1- 10.3 IIP 10.1- 10.3 IIP Appx. E		HW 5: LSV imaging 1	HW 4
3/17 (M) 3/19 (W) 3/24 (M) 3/26 (W)	End of group pro Spring Recess (3 Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD	Jip ect topic se /10-3/14) IIP 8 IIP 9.1-9.2 IIP Appx. A-D IIP 9.1-9.2 IIP Appx. A-D IIP 10.1- 10.3 IIP 10.1- 10.3 IIP Appx. E IIP Appx. E IIP Appx. E		HW 5: LSV imaging 1	HW 4
3/17 (M) 3/19 (W) 3/24 (M) 3/26 (W) 3/31	End of group pro Spring Recess (3 Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem for shift-variant imaging - operator & matrix form - operator & matrix form - singular value decomposition Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD Group le	IIP 8 IIP 9.1-9.2 IIP Appx. A-D IIP 8 IIP 9.1-9.2 IIP Appx. A-D IIP 10.1- 10.3 IIP 10.1- 10.3 IIP Appx. E IIP 10.1- 10.3 IIP Appx. E	Group 1	HW 6: LSV imaging 3	HW 4
3/17 (M) 3/19 (W) 3/24 (M) 3/26 (W) 3/31 (M)	End of group pro Spring Recess (3 Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD Group le	Ject topic se JIP 3/14) IIP 8 IIP 4ppx. A- D IIP 8 IIP 9.1-9.2 IIP 4ppx. A- D IIP 10.1- 10.3 IIP 10.1- 10.3 IIP Appx. E Ctures begin	election	HW 5: LSV imaging 1	HW 4
3/17 (M) 3/19 (W) 3/24 (M) 3/26 (W) 3/31 (M) 4/2	End of group pro Spring Recess (3 Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD Selected Topic in computational imaging - Temporcentry	IIP 8 IIP 9.1-9.2 IIP Appx. A-D IIP 8 IIP 9.1-9.2 IIP 8 IIP 9.1-9.2 IIP 10.1- 10.3 IIP 10.1- 10.3 IIP 10.1- 10.3 IIP Appx. E IIP 10.1- 10.3 IIP 10.1- 10.3 IIP Appx. E	Group 1	HW 5: LSV imaging 1	HW 4
3/17 (M) 3/19 (W) 3/24 (M) 3/26 (W) 3/31 (M) 4/2 (W)	End of group press Spring Recess (3 Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD Group le Selected Topic in computational imaging - lenless imaging Selected Topic in computational imaging - Tomography	opject topic service v/10-3/14) IIP 8 IIP 9.1-9.2 IIP Appx. A-D IIP 9.1-9.2 IIP Appx. A-D IIP 10.1- 10.3 IIP 10.1- 10.3 IIP Appx. E Ctures begin	election	HW 5: LSV imaging 1	HW 4
3/17 (M) 3/19 (W) 3/24 (M) 3/26 (W) 3/31 (M) 4/2 (W) 4/7	Spring Recess (3 Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD Group le Selected Topic in computational imaging - Lightfield imaging Selected Topic in computational imaging - Lightfield imaging	Ject topic se JIP 3/14) IIP 8 IIP 4ppx. A- D IIP 8 IIP 9.1-9.2 IIP 4ppx. A- D IIP 10.1- 10.3 IIP 10.1- 10.3 IIP Appx. E Ctures begin	election	HW 5: LSV imaging 1	HW 4
3/17 (M) 3/19 (W) 3/24 (M) 3/26 (W) 3/31 (M) 4/2 (W) 4/7 (M)	End of group pro Spring Recess (3 Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD Selected Topic in computational imaging - lenless imaging Selected Topic in computational imaging - Lightfield imaging	IIP 8 IIP 9.1-9.2 IIP Appx. A-D IIP 8 IIP 9.1-9.2 IIP Appx. A-D IIP 10.1- 10.3 IIP 10.1- 10.3 IIP Appx. E IIP Appx. E IIP Appx. E	election	HW 5: LSV imaging 1	HW 4
3/17 (M) 3/19 (W) 3/24 (M) 3/24 (M) 3/26 (W) 3/31 (M) 4/2 (W) 4/7 (M) 4/7 (M) 4/9	End of group pro Spring Recess (3 Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD Selected Topic in computational imaging - lenless imaging Selected Topic in computational imaging - Lightfield imaging Selected Topic in computational imaging - 2D imaging	iiii p iii p iii p iii p ii p	election	HW 5: LSV imaging 1	HW 4
3/17 (M) 3/19 (W) 3/24 (M) 3/26 (W) 3/31 (M) 4/2 (W) 4/7 (M) 4/7 (M) 4/9 (W)	End of group pro Spring Recess (3 Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD Selected Topic in computational imaging - lenless imaging Selected Topic in computational imaging - Lightfield imaging Selected Topic in computational imaging - 3D imaging	opect topic service c/10-3/14) IIP 8 IIP 9.1-9.2 IIP Appx. A-D IIP 9.1-9.2 IIP Appx. A-D IIP 10.1- 10.3 IIP Appx. E Ctures begin	election	HW 5: LSV imaging 1	HW 4
3/17 (M) 3/19 (W) 3/24 (M) 3/24 (M) 3/26 (W) 3/31 (M) 4/2 (W) 4/7 (M) 4/7 (M) 4/9 (W) 4/14	End of group pro Spring Recess (3 Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Inverse problem of LSV - Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV - Least square solution - Tikhonov regularization - truncated SVD Selected Topic in computational imaging - lenless imaging Selected Topic in computational imaging - Lightfield imaging Selected Topic in computational imaging - 3D imaging Selected Topic in computational imaging - PSE engineering	iiii p iii p iii p iii p iii p ii p	election	HW 5: LSV imaging 1	HW 4
3/17 (M) 3/19 (W) 3/24 (M) 3/24 (M) 3/26 (W) 3/31 (M) 4/2 (W) 4/7 (M) 4/9 (W) 4/14 (M)	End of group pro Spring Recess (3 Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Inverse problem of LSV - Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV - Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV - Least square solution - Tikhonov regularization - truncated SVD Selected Topic in computational imaging - lenless imaging Selected Topic in computational imaging - Lightfield imaging Selected Topic in computational imaging - 3D imaging Selected Topic in computational imaging - PSF engineering	pject topic service pject topic service pject topic service pject topic service iiP 8 iiP 9.1-9.2 iiP 8 iiP 9.1-9.2 iiP 10.1- 10.3 iiP 10.1- 10.3 iiP Appx. E ctures begin	election	HW 5: LSV imaging 1 HW 6: LSV imaging 2	HW 4 HW 5 HW 5
3/17 (M) 3/19 (W) 3/24 (M) 3/26 (W) 3/26 (W) 3/31 (M) 4/2 (W) 4/7 (M) 4/2 (W) 4/7 (M) 4/2 (W) 4/7	End of group pro Spring Recess (3 Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD Selected Topic in computational imaging - Lightfield imaging Selected Topic in computational imaging - 3D imaging Selected Topic in computational imaging - PSF engineering Selected Topic in computational imaging - Phase imaging	pject topic se iiP 8 iiP 9.1-9.2 iiP 9.1-9.2 iiP 10.1- 10.3 iiP 10.1- 10.3 iiP Appx. E ctures begin	election	HW 5: LSV imaging 1 HW 6: LSV imaging 2	HW 4
3/17 (M) 3/19 (W) 3/24 (M) 3/26 (W) 3/26 (W) 3/31 (M) 4/2 (W) 4/7 (M) 4/2 (W) 4/7 (M) 4/9 (W) 4/14 (M) 4/16 (W)	End of group pro Spring Recess (3 Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Inverse problem of LSV - Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV - Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV - Least square solution - Tikhonov regularization - truncated SVD Selected Topic in computational imaging - lenless imaging Selected Topic in computational imaging - Lightfield imaging Selected Topic in computational imaging - 3D imaging Selected Topic in computational imaging - PSF engineering Selected Topic in computational imaging - Phase imaging	pject topic se iiP 8 iiP 9.1-9.2 iiP 9.1-9.2 iiP 9.1-9.2 iiP 10.1- 10.3 iiP 10.1- 10.3 iiP Appx. E ctures begin	election	HW 5: LSV imaging 1	HW 4
3/17 (M) 3/19 (W) 3/24 (M) 3/26 (W) 3/26 (W) 3/31 (M) 4/2 (W) 4/7 (M) 4/7 (M) 4/9 (W) 4/14 (M) 4/16 (W) 4/21	End of group pro Spring Recess (3 Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Inverse problem of LSV - Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV - Least square solution - Tikhonov regularization - truncated SVD Selected Topic in computational imaging - lenless imaging Selected Topic in computational imaging - Lightfield imaging Selected Topic in computational imaging - 3D imaging Selected Topic in computational imaging - PSF engineering Selected Topic in computational imaging - Phase imaging Holiday	pject topic service pject topic service pject topic service pject topic service iiP 3 iiP 9.1-9.2 iiP 4 pppx. A-D iiP 10.1- i0.3 iiP 10.1- i0.3 iiP Appx. E ctures begin	election	HW 5: LSV imaging 1	HW 4 HW 5 HW 5
3/17 (M) 3/19 (W) 3/24 (M) 3/26 (W) 3/26 (W) 3/31 (M) 4/2 (W) 4/7 (M) 4/2 (W) 4/7 (M) 4/2 (W) 4/7 (M) 4/14 (M) 4/14 (M) 4/14 (M) 4/14 (M)	End of group pro Spring Recess (3) Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Inverse problem of LSV - Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV - Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV - Least square solution - Tikhonov regularization - truncated SVD Selected Topic in computational imaging - lenless imaging Selected Topic in computational imaging - lenless imaging Selected Topic in computational imaging - Lightfield imaging Selected Topic in computational imaging - 3D imaging Selected Topic in computational imaging - PSF engineering Selected Topic in computational imaging - Phase imaging	pject topic service pject topic service pject topic service pject topic service iiP 3,1-9,2 iiP 4,ppx, A-D iiP 9,1-9,2 iiP 9,1-9,2 iiP 10,1- 10,3 iiP 10,1- 10,3 iiP Appx, E ctures begin ctures begin	election	HW 5: LSV imaging 1	HW 4 HW 5 HW 5
3/17 (M) 3/19 (W) 3/24 (M) 3/26 (W) 3/26 (W) 3/31 (M) 4/2 (W) 4/7 (M) 4/2 (W) 4/7 (M) 4/2 (W) 4/14 (M) 4/16 (W) 4/16 (W) 4/21 (M) 4/23	End of group pro Spring Recess (3) Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Inverse problem of LSV - Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV - Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV - Least square solution - Tikhonov regularization - truncated SVD Selected Topic in computational imaging - lenless imaging Selected Topic in computational imaging - lenless imaging Selected Topic in computational imaging - Lightfield imaging Selected Topic in computational imaging - SF engineering Selected Topic in computational imaging - PSF engineering Selected Topic in computational imaging - Phase imaging Holiday, Final Projects	opect topic service polect service pole	election	HW 5: LSV imaging 1 HW 6: LSV imaging 2 HW 6: LSV imaging 1	HW 4 HW 5 HW 5
3/17 (M) 3/19 (W) 3/24 (M) 3/26 (W) 3/26 (W) 3/31 (M) 4/2 (W) 4/7 (M) 4/2 (W) 4/7 (M) 4/2 (W) 4/7 (M) 4/2 (W) 4/14 (M) 4/14 (M) 4/16 (W) 4/21 (M) 4/23 (W)	End of group pro Spring Recess (3) Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD Group le Selected Topic in computational imaging - lenless imaging Selected Topic in computational imaging - Tomography Selected Topic in computational imaging - 3D imaging Selected Topic in computational imaging - PSF engineering Selected Topic in computational imaging - Phase imaging Final Projects	classes sus	election	HW 5: LSV imaging 1 HW 6: LSV imaging 2 HW 6: LSV imaging 1	HW 4 HW 5 HW 5
3/17 (M) 3/19 (W) 3/24 (M) 3/26 (W) 3/26 (W) 3/31 (M) 4/2 (W) 4/7 (M) 4/2 (W) 4/7 (M) 4/2 (W) 4/14 (M) 4/14 (M) 4/14 (M) 4/14 (M) 4/14 (M) 4/21 (M) 4/23 (W) 4/23 (W)	End of group pro Spring Recess (3) Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD Selected Topic in computational imaging - lenless imaging Selected Topic in computational imaging - Tomography Selected Topic in computational imaging - Maging Selected Topic in computational imaging - SD imaging Selected Topic in computational imaging - PSF engineering Selected Topic in computational imaging - PSF engineering Selected Topic in computational imaging - Phase imaging Final Projects Final Projects	pject topic se iiP 3,1-9,2 iiP 4,ppx, A-D iiP 10,1- 10,3 iiP 10,1- 10,3 iiP Appx, E ctures begin ctasses sus	election	HW 5: LSV imaging 1 HW 6: LSV imaging 2 HW 6: LSV imaging 1	HW 4 HW 5 HW 5
3/17 (M) 3/19 (W) 3/24 (M) 3/24 (M) 3/26 (W) 3/31 (M) 4/2 (W) 4/7 (M) 4/2 (W) 4/7 (M) 4/2 (W) 4/14 (M) 4/16 (W) 4/14 (M) 4/21 (M) 4/21 (M) 4/23 (W) 4/28 (M)	End of group pro Spring Recess (3) Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD Group le Selected Topic in computational imaging - lenless imaging Selected Topic in computational imaging - Tomography Selected Topic in computational imaging - SD imaging Selected Topic in computational imaging - PSF engineering Selected Topic in computational imaging - PSF engineering Selected Topic in computational imaging - Phase imaging Selected Topic in computational imaging - Phase imaging Final Projects Final Projects Final Projects	Piect topic services Piect topic services Piect topic services Piect topic services IIP 8 IIP 9.1-9.2 IIP 8 IIP 9.1-9.2 IIP 10.1- 10.3 IIP 10.1- 10.3 IIP Appx. E Ctures begin Common services Classes sus	election	HW 5: LSV imaging 1 HW 6: LSV imaging 2 HW 6: LSV imaging 1	HW 4 HW 5 HW 5
3/17 (M) 3/19 (W) 3/24 (M) 3/26 (W) 3/26 (W) 3/31 (M) 4/2 (W) 4/2 (W) 4/7 (M) 4/2 (W) 4/7 (M) 4/2 (W) 4/14 (M) 4/14 (M) 4/14 (M) 4/14 (M) 4/21 (M) 4/23 (W) 4/23 (W) 4/23 (W) 4/23 (W)	End of group pro Spring Recess (3) Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD Group le Selected Topic in computational imaging - lenless imaging Selected Topic in computational imaging - Tomography Selected Topic in computational imaging - SD imaging Selected Topic in computational imaging - PSF engineering Selected Topic in computational imaging - PSF engineering Selected Topic in computational imaging - Phase imaging Final Projects Final Projects Final Projects Final Projects Final Projects	Piect topic services Piect topic services Piect t	election	HW 5: LSV imaging 1 HW 6: LSV imaging 2 HW 6: LSV imaging 1	HW 4 HW 5 HW 5
3/17 (M) 3/19 (W) 3/24 (M) 3/26 (W) 3/26 (W) 3/26 (W) 3/26 (W) 4/2 (M) 4/2 (M) 4/2 (M) 4/2 (M) 4/2 (M) 4/14(M) (M) 4/14(M) (M) 4/14(M) (M) 4/14(M) (M) (M) (M) (M) (M) (M) (M) (M) (M)	End of group pro Spring Recess (3) Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Inverse problem of LSV - Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV - Least square solution - Tikhonov regularization - Tikhonov regularization - truncated SVD Group le Selected Topic in computational imaging - lenless imaging Selected Topic in computational imaging - Tomography Selected Topic in computational imaging - 3D imaging Selected Topic in computational imaging - PSF engineering Selected Topic in computational imaging - Phase imaging	Piect topic services Piect topic services Piect topic services Piect topic services Piece topic services IIP 8 IIP 9.1-9.2 IIP 8 IIP 9.1-9.2 IIP 10.1- 10.3 IIP 10.1- 10.3 IIP Appx. E Ctures begin Common services Classes sus IIP Services	election Election Election Election Election Election Election Election Election Election Election Election Election Election Election Election Election Election E	HW 5: LSV imaging 1	HW 4 HW 5 HW 5
3/17 (M) 3/19 (W) 3/24 (M) 3/24 (M) 3/26 (W) 3/26 (W) 3/26 (W) 4/2 (M) 4/2 (W) 4/7 (M) 4/2 (W) 4/7 (M) 4/2 (W) 4/14 (M) 4/16 (W) 4/16 (W) 4/16 (W) 4/21 (M) 4/23 (W) 4/23 (W) 4/23 (W) 4/23 (W)	End of group pro Spring Recess (3) Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV -Least square solution - Tikhonov regularization - truncated SVD Selected Topic in computational imaging - lenless imaging Selected Topic in computational imaging - Tomography Selected Topic in computational imaging - 3D imaging Selected Topic in computational imaging - PSF engineering Selected Topic in computational imaging - PSF engineering Selected Topic in computational imaging - PSF engineering Selected Topic in computational imaging - Phase imaging Final Projects Final Projects Final Projects Final Projects	pject topic se iiP 3,1-9,2 iiP 4,ppx, A-D iiP 10,1- 10,3 iiP 10,1- 10,3 iiP Appx, E ctures begin ctures begin classes sus iii and se pject topic se	election Election Election Election Election Election Election Election Election Election Election Election Election Election Election Election Election Election E	HW 5: LSV imaging 1 HW 6: LSV imaging 2 HW 6: LSV imaging 1 HW 6: LSV imaging 2 HW 6: LSV imaging 2 HW 6: LSV imaging 1 HW 6: LSV imaging 2 HW 6: LSV imaging 1 HW 6: LSV imaging 2 HW 6: LSV imaging 3 HW 6: LSV imaging	HW 4 HW 5 HW 5
3/17 (M) 3/19 (W) 3/24 (M) 3/26 (W) 3/26 (W) 3/26 (W) 3/26 (W) 4/2 (M) 4/2 (W) 4/2 (W) 4/7 (M) 4/2 (W) 4/2 4/7 (M) 4/2 (W) 4/21 (M) 4/23 (W) 4/24 (W) 4/24 (W) 4/24 (W) 4/24 (W) 4/24 (W) 4/24 (W) 4/24 (W) 4/24 (W) 4/24 (W) 4/24 (W) 4/24 (W) 4/24 (W) 4/24 (W) 4/24 (W) 4/24 (W) 4/2 (W) 4/2 (W) 4/2 (W) 4/2 (W) 4/2 (W) 4/2 (W) 4/2 (W) 4/2 (W) (W) 4/2(W) 4/2(W) 4/2(W) (W) 4/2(W) 4/2(W) (W) 4/2(W) 4/2(W) (W) 4/2(W) 4/2(W) (W) 4/2(W) 4/2(W) (W) 4/2(W) 4/2(W)	Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem of LSV - operator & matrix form - singular value decomposition Inverse problem of LSV - Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV - Least square solution - Tikhonov regularization - truncated SVD Selected Topic in computational imaging - lenless imaging Selected Topic in computational imaging - Tomography Selected Topic in computational imaging - Dimaging Selected Topic in computational imaging - PSF engineering Selected Topic in computational imaging - PSF engineering Selected Topic in computational imaging - Phase imaging Holiday, Final Projects Final Project Final Pro	Piect topic services Piect topic services Piect topic services Piect topic services Piece topic services IIP 8 IIP 9.1-9.2 IIP 8 IIP 9.1-9.2 IIP 10.1- 10.3 IIP 10.1- 10.3 IIP Appx. E ctures begin ctures begin Comparison Piece services	election	HW 5: LSV imaging 1 Imaging 1 Imaging 2 Imaging 2 Imaging 2 Imaging 2 Imaging 2 Imaging 2 Imaging 3	HW 4 HW 5 HW 5
3/17 (M) 3/19 (W) 3/24 (M) 3/26 (W) 3/26 (W) 3/26 (W) 3/26 (W) 3/27 (M) 4/2 (W) 4/2 (W) 4/2 (W) 4/2 (M) 4/2 (W) 4/14 (M) 4/14 (M) 4/14 (M) 4/14 (M) 4/14 (M) 4/14 (M) 4/14 (M) 4/14 (M) 4/14 (M) 4/16 (W) 4/23 (W) 4/23 (W) 4/23 (W) 4/28 (M) 4/28 (M) 4/28 (M) 4/28 (M) 4/30 (W) 4/30 (W)	End of group pr Spring Recess (3) Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Inverse problem of LSV - Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV - Least square solution - Tikhonov regularization - truncated SVD Group le Selected Topic in computational imaging - lenless imaging Selected Topic in computational imaging - Lightfield imaging Selected Topic in computational imaging - SP engineering Selected Topic in computational imaging - PSF engineering Selected Topic in computational imaging - Phase imaging Selected Topic in computational imaging - Phase imaging Selected Topic in computational imaging - Phase imaging Final Projects Final Projects <tr< td=""><td>Piect topic services Piect topic services Piect topic services Piect topic services Piect topic services IIP 8 IIP 9.1-9.2 IIP 8 IIP 9.1-9.2 IIP 10.1- 10.3 IIP 10.1- 10.3 IIP Appx. E Ctures begin Common services Classes sus Piece services Piece services<</td><td>election</td><td>HW 5: LSV imaging 1 HW 6: LSV imaging 2 HW 6: LSV imaging 1 HW 6: LSV imaging 1 HW 6: LSV imaging 1</td><td>HW 4 HW 5 HW 5</td></tr<>	Piect topic services Piect topic services Piect topic services Piect topic services Piect topic services IIP 8 IIP 9.1-9.2 IIP 8 IIP 9.1-9.2 IIP 10.1- 10.3 IIP 10.1- 10.3 IIP Appx. E Ctures begin Common services Classes sus Piece services Piece services<	election	HW 5: LSV imaging 1 HW 6: LSV imaging 2 HW 6: LSV imaging 1 HW 6: LSV imaging 1 HW 6: LSV imaging 1	HW 4 HW 5 HW 5
3/17 (M) 3/19 (W) 3/24 (M) 3/24 (M) 3/26 (W) 3/26 (W) 3/26 (W) 4/2 (M) 4/2 (W) 4/2 (W) 4/14 (M) 4/9 (W) 4/14 (M) 4/14 (M) 4/21 (M) 4/21 (M) 4/21 (M) 4/21 (M) 4/23 (W) 4/24 (W) 4/24 (W) 4/24 (W) 4/2(W) 4/2(W) 4	Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Inverse problem of LSV - Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV - Least square solution - Tikhonov regularization - truncated SVD Group le Selected Topic in computational imaging - Lightfield imaging Selected Topic in computational imaging - JD imaging Selected Topic in computational imaging - Daimaging Selected Topic in computational imaging - PSF engineering Selected Topic in computational imaging - PSF engineering Selected Topic in computational imaging - PAse imaging Final Projects Final Projects Final Project Final Proje	Piect topic services Piect topic services Piect t	election	HW 5: LSV imaging 1 HW 6: LSV imaging 2 HW 6: LSV imaging 1 HW 6: LSV imaging 2 HW 6: LSV imaging 1	HW 4 HW 5 HW 5 HW 6
3/17 (M) 3/19 (W) 3/24 (M) 3/26 (W) 3/26 (W) 3/31 (M) 4/2 (W) 4/7 (M) 4/2 (W) 4/7 (M) 4/2 (W) 4/7 (M) 4/2 (W) 4/21 (M) 4/23 (W) 4/23 (W) 4/23 (W) 4/23 (W) 4/23 (W) 4/20 (W) 4	Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Forward problem for shift-variant imaging - operator & matrix form - singular value decomposition Inverse problem of LSV - Least square solution - Tikhonov regularization - truncated SVD Inverse problem of LSV - Least square solution - Tikhonov regularization - truncated SVD Selected Topic in computational imaging - lenless imaging Selected Topic in computational imaging - Tomography Selected Topic in computational imaging - Joi maging Selected Topic in computational imaging - PSF engineering Selected Topic in computational imaging - PAse imaging Selected Topic in computational imaging - Phase imaging Final Projects Final Projects	Piect topic services Piect topic services Piect topic services Piece topic services IIP 8 IIP 9.1-9.2 IIP 8 IIP 9.1-9.2 IIP 10.1- 10.3 IIP 10.1- 10.3 IIP Appx. E Ctures begin Common services Classes sus Classes sus	election	HW 5: LSV imaging 1 Imaging 1 Imaging 1 Imaging 2 Imaging 3 Imaging 3 Imaging 4	