Day 2, Tuesday 17, 2019, $25^{\rm th}$ Inverse Days, Jyväskylä

8:45-9:00 Registration (1st floor lobby)

	Wivi	Alvar
9:00	Luca Ratti	Emilia Blåsten
9:25	A Convolutional Neural Networks ap-	Detecting blockages in water supply
	proach for sparsity-promoting regular-	networks using boundary control
	ization in CT: theoretical results	
9:25	Mathilde Galinier	Leyter Potenciano-Machado
9:50	Unrolled ISTA and convolutional neu-	A resolvent estimate for the magnetic
	ral networks for limited-angle tomogra-	Schrödinger operator in the presence of
	phy reconstruction	short and long-range potentials
9:50	Jalo Nousiainen	Shiqi Ma
10:15	Inverse problems and deep learning in	Determining a random Schrödinger
	predictive control for adaptive optics	equation

10:15 – 10:45 Coffee (restaurant)

	Wivi
10:45	Marco Mazzucchelli
11:10	Spectral characterizations of Besse and Zoll Reeb flows
11:10	Tuomo Valkonen
11:35	First-order primal-dual methods for non-linear inverse problems
11:35	Yavar Kian
12:00	Inverse problem for diffusion equations

12:00-13:00 Lunch (restaurant)

12:00 – 13:30 Women in Inverse Problems (cabinet)

	Wivi	Alvar
13:30	Lauri Ylinen	Otto Lamminpää
13:55	Analysis of a Dynamical System Mod-	UQ for satellite measurements of CO_2
	elling Lasers and Applications for Op-	using MCMC
	tical Neural Networks	
13:55	Rahul Yadav	Vesa Kaarnioja
14:20	Deep convolutional neural networks for	Uncertainty quantification for PDE-
	estimating porous material properties	constrained optimal control problems
	$using \ microwave \ tomography$	using quasi-Monte Carlo methods
14:20	Andreas Hauptmann	Bjørn Christian Skov Jensen
14:45	Learned image reconstruction for large	Wave speed uncertainty in Acousto-
	scale tomographic imaging	Electric Tomography

14:45-15:15 Coffee (restaurant)

	Wivi
15:15	François Monard
15:40	The geodesic X-ray transform on disks of constant curvature
15:40	Rashmi Murthy
16:05	Classification of the stroke using Neural Networks in Electrical Impedance Tomography

16:10 - 17:30	FIPS meeting
18:30	Transportation to dinner (in front of Paviljonki)
19:00	Dinner (Scandic Hotel Laajavuori)
22:00	Transportation from dinner (in front of dinner venue)