

Welcome to ESR Kickoff Meeting and First Training Event
HiPerNav
“High Performance soft-tissue Navigation”

4th – 8th of September 2017
Oslo University Hospital - Rikshospitalet
Oslo – Norway



Holmenkollen (Foto from Skiforeningen/Visit Oslo)

Monday, September 4th - 2017

Time	Topic	Speaker
08:30 – 09:00	Arrival/coffee	
09:00 – 09:15	Welcome to The Intervention Centre, Oslo University Hospital	Erik Fosse
09:15 – 10:00	HiPerNav Project overview and meeting agenda	Ole Jakob Elle/ Camilla Lien
10:00 – 10:30	Coffe break	
<u>10:30 -1200</u>	<u>Short project partner presentations and their role in the HiperNav project (10 min. each)</u>	-
	WP2 - Multimodal imaging (NTNU)	Dr. Faouzi Alaya Cheikh
	WP3 - Biomechanical Modelling (Inst. Nat. De Recherche en Information at en Automatique)	Dr. Stephane Cotin
	WP4 - Registration and data fusion (Stiftelsen SINTEF)	Dr. Thomas Langø
	WP5 - Integration into Navigation Platform (CAScination AG)	Dr. Matthias Peterhans
	WP6 - High Performance Computing (Universidad de Cordoba)	Dr. Joaquin Olivares
	WP7 - User Interaction (Technisch Universiteit Delfi)	Prof. Jenny Dankelman
	WP8 - Clinical pilots (Universitaet Bern)	Dr. Stefan Weber
	WP9 - Dissemination, Kommunikation and Exploitation (Universite Paris 13)	Dr. Mounir Kaaniche
12:00- 13:00	Lunch break	
13:00 – 14:30	<u>Presentation of the ESRs (10 min. each)</u>	
	ESR 1 OUS	Andrea Teatini (OUS)
		Navigation and stereo-camera laparoscopic registration to pre-operative CT/MRI and intra-operative US.
	ESR 2 OUS	Pravda Jit Ray Prasad
		Automatic feature extraction and segmentation of liver using the combination of deeplearning and traditional methods
	ESR 3 OUS	Egidijus Pelanis
		Clinical assessment and validation of navigation system during laparoscopic liver interventions
	ESR 4 UCO	Nitin Satpute
		GPU acceleration for enhancement and denoising of pre-operative and intra-operative images
	ESR 5 UCO	Orestis Zachariadis
		Heterogeneous parallel computing for image registration algorithms
	ESR 6 NTNU	Rabia Naseem
		Cross-modality guided image enhancement
	ESR 7 NTNU	Shanmugapriya Survarachakan
		Fast and automatic extraction of liver, vessels and tumor from both pre-operative CT/MR and intra- operative ultrasound in laparoscopic surgery
	ESR 8 UP13	Dibash Basukala
		Multi modal medical image quality assessment
	ESR 9 UNIBE	Raluca-Maria Sandu
		Towards modelling patient specific planning tools for automatic assessment in ablation treatments of liver tumors
14:30 – 15:00	Coffee break	

15:00 - 1600	Presentation of the ESRs (10 min. each)		
	ESR 10 CAS	Benjamin peter Eigl	Stereotactic, minimally-invasive ablation treatment of pancreatic cancer
	ESR 11 UNIBE	Ankit Gupta	Framework for the detection and navigation of surgical tool during the laparoscopic surgery
	ESR 12 INRIA	Jean-Nicolas Brunet	Characterization of boundary conditions for biomechanical modeling of liver
	ESR 13 INRIA	Sergei Nikolaev	Identification and characterization of boundary conditions for patient-specific biomechanical simulation.
	ESR 14 SNF	Javier Pérez de Frutos	CT – LUS registration for minimal invasive liver surgery
	ESR 15 TUD	Maryam Gholinejad	User interaction and workflow analysis in minimally invasive liver surgery
16:00 – 16:10	Break		
16:10 – 17:00	ESR group activity (Dividing into groups)		
19:30 – 22:00	Dinner (For both ESR's and WP leaders)		

Tuesday, September 5th – 2017

Time	Topic	Speaker
09:00 - 10:30	Medical imaging and image enhancement: Ultrasound, CT and MRI	Faouzi Cheikh/Frank Lindseth/Thomas Langø
10:30 -10:45	Coffee break	
10: 45 – 12:00	Cascination demo: Cas-One	Matthias Peterhans/Stefan Weber
12:00 - 13:00	Lunch break	
13:00 – 15:00	Lab tour (for ESR)/ Steering Committee meeting (WP leaders)	Ole Jakob Elle
19:30 – 22:00	Dinner (Social dinner for ESR's)	19:30 – 22:00

Wednesday, September 6th – 2017

Time	Topic	Speaker
09:00 - 10:30	Multimodal imaging, IGS –Part 1	Anne Figel (Siemens)
10:30 -10:45	Coffee break	
10: 45 – 12:00	Multimodal imaging, IGS –Part 2	Anne Figel (Siemens)
12:00- 13:00	Lunch break	
13:00 - 14:30	Lab tour	
14:30 – 16:30	ESR group activity	
19:30 – 22:00	Dinner (Social dinner for ESR's)	19:30 – 22:00

Thursday, September 7th – 2017

Time	Topic	Speaker
09:00 - 10:30	NorMIT_ IGT – planning Part 1	Rafael Palomar, Rahul Kumar, Louise Oram
10:30 -10:45	Coffee break	
10: 45 – 12:00	NorMIT_IGT – navigation Part 2	Thomas Langø/Frank Lindseth
12:00- 13:00	Lunch break	
13:00 - 14:30	ESR's Group sessions	

14:30 – 15:00	Cofee break
15:00 – 16:00	ESR presentations based on the group sessions
19:30 – 22:00	Dinner (For both ESR's and WP leaders)

Friday, September 8th - 2017

Time	Topic	Speaker
09:00 - 10:30	Clinical need for Cancer treatment Part 1	Bjørn Edwin
10:30 -10:45	Coffee break	
10: 45 – 12:00	Clinical need for Cancer treatment Part 2	Bjørn Edwin
12:00- 13:00	Lunch break	
13:00 - 14:30	ESR's Group sessions	
14:30 – 15:00	Cofee break	
15:00 – 16:00	ESR presentations	
16:00 – 16:10	Training school conclusion	