

INTERDISCIPLINARY SEMINAR: Selected Problems in Technical Medicine Techniques and Developments in the measurements of activity and motion in patients with Multiple Sclerosis

Dr. M. Daumer, Sylvia Lawry Centre for MS Research, Munich

PD Dr. G. Staude, University of the Armed Forces, Institute of Mathematics and Computer Science, Munich

PD Dr. C. Heumann, Ludwig Maximilians University, Department for Statistics, Munich

Prof. Dr. N. Navab, Technical University of Munich, Computing Faculty, Computer Aided Medical Procedures

Begin: April 2006, 2 hours per week, 12 sessions

Preparatory meeting: 09. February 2006, 3 p.m., Sylvia Lawry Centre for Multiple Sclerosis,
 Hohenlindener Str. 1, 81677 München, Conference Room

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The aim is to attract and educate the best students that plan a career somewhere in the intersection between informatics, mathematics and medicine who are looking for a diploma thesis in informatics, statistics, mathematics, technomathematics, electro-engineering, biomedical engineering.

“Seminarschein” accepted at LMU, TUM and UniBw.

Topics

Date	Topic	Speaker	Supervisor	Location
09.02.06	Introduction, Overview & concept “Technical Medicine”, distribution of topics	M. Daumer		SLCMSR Hohenlindener Str. 1 81677 München
26.04.06 2 pm	The Clinical/Medical Problem of measuring activity	W. Feneberg/ M. Daumer		Marianne-Strauß-Klinik Milchberg 21 82335 Kempfenhausen
10.05.06 3 pm	“Motion Analysis with ActiBelt and Optical Tracking System” “Tracking Systems and its Applications in Intraoperative Navigation”	T. Goßner A. Mihis	J. Traub M. Daumer	Library of Chirurgische Klinik, Kinikum Innenstadt Nußbaumstr. 20 80336 München Room No. 103b
17.05.06 3 pm	Research Activities at the Chair for Computer Aided Medical Procedures and Augmented Reality Live-Demos	N. Navab		Library of Chirurgische Klinik, Kinikum Innenstadt Nußbaumstr. 20 80336 München Room No. 103b 3D laboratory
24.05.06 3 pm	Principles of biosignal processing I - Introduction to Linear Systems Theory (lecture)	G. Staude		SLCMSR Hohenlindener Str. 1 81677 München
31.05.06 3 pm	Principles of biosignal processing II - Digital signal processing with MATLAB (“training on the job”)	G. Staude		IT training room, Uni Bw, Neubiberg
07.06.06 3 pm	Weighted AIC	J. Kellberger/ M. Wiesenfarth	C. Heumann A. Neuhaus	LMU/Statistics/Seminar room Ludwigstr. 33/1st floor
21.06.06 3 pm	- Joint modelling of longitudinal measurements and event time data - ActiBelt – A mobile three- dimensional accelerator sensor	H. Buchner/ H. Hofrichter K. Thaler	C. Heumann A. Neuhaus M. Daumer G. Staude	LMU/Statistics/Seminar room or SLCMSR Hohenlindener Str. 1 81677 München
	Biological & Medical Data Analysis III	N. N.		LMU/Statistics/Seminar room