

Courses winter term 2021/22 for Cognitive Systems FSPO 2017

from 2021/10/01

On-site format: only the attendance parts are relevant for examinations; organisational information, lecture recordings, literature recommendations, additional and exercise materials are provided via Moodle. Students are expected to be present on site.

Combi format: both attendance and online parts are relevant for examinations. Examination-relevant online parts are, for example, compulsory online exercises, electronic performance records or examination material that is to be worked on independently. Students are expected to be present on site.

Hybrid format: Students can choose between attending the course in person or online. Students are not required to be present on site if they participate in the online version.

Online format: Only the online parts are relevant for examinations. In presence, question and practice sessions can be offered, but the presence of the students on site is not required.

Basic Subject

Course program Psychology for non-psychologists

Course	Implementation	Course-#	Hours	ECTS	Organizer	Time/Place	pre-registration?	Link to LSF
Introduction to Psychological Methods and Statistics for non-psychologists	Combi	CS8751.000	2 + 2	6	M. Ernst	Wed 14-16 47.1.506, Thu 12-14 47.1.506	no	LSF

Course program Computer Science for non-computer Scientists

Course	Implementation	Course-#	Hours	ECTS	Organizer	Time/Place	pre-registration?	Link to LSF
Introduction to Computer Science for non-computer scientists	Hybrid	CS6307.000	3 + 1	6	Y. Kazakov	Tue 16-18 123, Fri 12-14 121	no	LSF

Course program Computer Science for all participants

Course	Implementation	Course-#	Hours	ECTS	Organizer	Time/Place	pre-registration?	Link to LSF
Fundamentals of Human-Machine Interaction	Hybrid	CS8153.001	2 + 2	6	H. Neumann with D. Schmid	Wed 10-12 H21, Thu 10-12 2201	no	LSF
Foundations and Concepts of Cognitive Systems Modeling	Online	CS7887.000	2 + 2	6	D. Braun with S. Gottwald	Mon 14-16 1002, Fri 10-12 1002	no	LSF

Interdisciplinary Subject

Course	Implementation	Course-#	Hours	ECTS	Organizer	Time/Place	pre-registration?	Link to LSF
Cognitive Systems I	Hybrid	CS7882.002	3 + 1	6	H. Neumann, M. Ernst	Mon 12-14 H21, Thu 14-16 123	no	LSF
Recent Developments in Cognitive Systems Research	Combi	CS8755.000	2 + 1	6	H. Neumann, M. Ernst	Mon 16-17 1002, Thu 17-19 47.0.501	no	LSF

Special Subject

Course	Implementation	Course-#	Hours	ECTS	Organizer	Time/Place	pre-registration?	Link to LSF
Perception								
Deep Learning for Graphics and Visualization	Hybrid	CS8195.000	2 + 2	6	T. Ropinski with P. Hermosilla	Tue 10-12 123, Thu 14-16 1002	no	LSF
Learning & Memory								
DeepVision - Deep Learning and Convolutional Neural Networks in Computational Vision	Combi	CS8015.000	2 + 2	6	H. Neumann with C. Jarvers	Block, by arrangement	no	LSF
Learning Systems II	Online	CS8013.000	3 + 1	6	D. Braun with S. Gottwald	Tue 08-10 H21, Tue 10-12 2202	no	LSF
Pattern Recognition	Online	CS8014.000	2 + 2	6	F. Schwenker	Tue 14-16 H20, Thu 12-14	no	LSF
Seminar Trends in Applied Artificial Intelligence, Machine Learning and Deep Learning	On-site	ENGD 74794	2	4	V. Belagiannis	Wed 12-14 45.2.101, Fri 14-16 43.2.103	yes	LSF
Text Analytics and Deep Learning	Combi	CS6655.000	2 + 2	6	A. Scherp	Mon 12-14 1002, Thu 10-12 029-2002	no	LSF
Planning & Reasoning								
Knowledge-Based Artificial Intelligence	Online	CS6396.000	2 + 2	6	F. Lindner with C. Olz, M. Illich	Tue 14-16	no	LSF
Interaction								
Neurotechnology: Brain-Machine-Interfacing	Online	CS7904.000	2 + 2	6	D. Braun with P. Hack	by arrangement	no	LSF
Psychology of Automation	On-site	PSY76549.001	3	6	M. Baumann	Mon 14-17 47.2.506	yes	LSF
The costs of free will in action	On-site	PSY75301.001	4	6	M. Ernst with M. Verneau	Tue 14-16 47.2.506	yes	LSF
Methods, general Concepts & Tools								
Concepts of intelligence	Online	CS5900.156	2	4	D. Braun	by arrangement	no	LSF
Introduction to Human Neuroanatomy and Neurophysiology	On-site	MEDex29	2 + 2	6	L. Dimou, D. Yilmazer-Hanke	Wed 8-10 029-3003, Mon 8-10 029-3002	yes	LSF
Research Colloquium: Recent Developments in Cognitive Neuroscience and Cognitive Psychology		MED80000.016	2	4	M. Kiefer	Fri 11-13 Klinik für Psychiatrie III	yes	LSF
Thinking about Science (Colloq)	On-site	HSZ 3100.003	2	4	H. Ecker	Wed 17-20 N24/131	no	LSF
Topics in Cognitive Psychology (Colloq)	On-site	PSY00000.014	2	4	M. Ernst	Thu 10-12 43.1.250	no	LSF

Applied Subject

Course	Implementation	Course-#	Hours	ECTS	Organizer	Time/Place	pre-registration?	Link to LSF
Perception								
Multisensory Perception for Action 1	On-site	CS8756.000	4	8	M. Ernst	by arrangement	no	LSF
Multisensory Perception for Action 2	On-site	CS8757.000	4	8	M. Ernst	by arrangement	no	LSF
Project Computational Vision and Image Processing	Combi	CS8000.016	2	8	H. Neumann with C. Jarvers	by arrangement	no	LSF
Learning & Memory								
Project Learning Robots	Hybrid	CS8000.024	4	8	D. Braun with H. Hihn	Mon 12-14 124	no	LSF
Projectseminar Deep Learning Architectures	Hybrid	CS8000.023	4	8	D. Braun, F. Schwenker	by arrangement	no	LSF
Project Deep Learning for Autonomous Cars	Online	ENGD 74795	4	8	V. Belagiannis	by arrangement	yes	LSF
Planning & Reasoning								
Project Advanced Automated Reasoning	Hybrid	CS6400.009	4	8	Y. Kazakov	by arrangement	no	LSF
Project Advanced Semantic Web	Hybrid	CS6400.005	4	8	B. Glimm with Y. Kazakov	by arrangement	no	LSF
Project Automated Reasoning	Hybrid	CS6400.006	4	8	Y. Kazakov	by arrangement	no	LSF
Project Explainable Artificial Intelligence	Online	CS6400.010	4	8	F. Lindner	by arrangement	no	LSF
Project Semantic Web	Hybrid	CS6400.007	4	8	B. Glimm with Y. Kazakov	by arrangement	no	LSF
Interaction								
Project Dialogue Systems for Cognitive Systems	On-site	CS8410.007	4	8	W. Minker	by arrangement	no	LSF
Investigations in Cognitive Ergonomics - Basics	On-site	CS8758.000	4	8	A. Huckauf	by arrangement	yes	LSF
Investigations in Cognitive Ergonomics - Research Trends	On-site	CS8759.000	4	8	A. Huckauf	by arrangement	yes	LSF
Project Driver-Vehicle Interaction ("Cooperation in Traffic")	Online	PSY73056.002	2	8	M. Baumann, L. Miller	Mon 12-14	yes	LSF
Introduction into Cognitive Modeling in Human Factors Research	On-site	PSY73056.005	2	8	M. Baumann, N. Földes	Mon 12-14 47.1.506	yes	LSF
Applied methods and concepts in Cognitive Systems								
Investigating Functions in Perception, Cognition and Motor Behavior	On-site	CS8000.028	4	8	M. Ernst, D. Braun, H. Neumann	by arrangement	no	LSF