Lehrangebot Master SoSe 2022
IT-Systems Engineering (ITSE)

Stand: 31.03.2022

	Bezeichnung Lehrveranstaltung	Art	Dozent(inn)en Betreuer(inn)en	SWS	LP	TN	Lehr-sprache
1	21st Century Health Care Businesses: Regulatory, Legal, and Public Policy Aspects	S	Prof. Dr. Ariel Stern	2	3		EN
2	Advanced Competitive Programming	V	Prof. Dr. Tobias Friedrich	4	6	30	DE
3	Advanced Cryptography	V/Ü	Prof. Dr. Anja Lehmann	4	6		DE
4	Advanced Techniques for Analysis and Visualization of Software Data	S/P	Prof. Dr. Jürgen Döllner, Daniel Atzberger, Tim Cech	4	6		DE
5	Algorithms for Analysis and Visualization of High-Dimensional Data	S/P	Prof. Dr. Jürgen Döllner, Dr. Benjamin Hagedorn, Dr. Rico Richter	4	6		DE
6	Applied Machine Learning for Digital Health	S	Dr. Matthieu Schapranow	4	6		EN
7	Approximate Data Profiling	PS	Prof. Dr. Felix Naumann, Leon Bornemann, Tobias Bleifuß	4	6	12	EN
8	Approximation Algorithms	V	Prof. Dr. Tobias Friedrich, Dr. Davis Issac, Dr. Nikhil Kumar	4	6		EN
9	Business Process Intelligence	V	Prof. Dr. Mathias Weske	4	6		EN
10	Computational Statistics	V/Ü	Prof. Dr. Bernhard Renard, Dr. Christoph Schlaffner	4	6		EN
11	Cryptography and Society	S	Prof. Dr. Anja Lehmann	2	3	20	EN
12	Data Matching	PS	Prof. Dr. Felix Naumann	4	6	6	DE
13	Deep Learning	V/Ü	Prof. Dr. Christoph Lippert	4	6		EN
14	Develop Your Own Database	S/Ü	Dr. Michael Perscheid, Marcel Weisgut, Thomas Bodner, Martin Boissier, David Justen, Daniel Lindner	4	6		DE
15	Digital Rail Ringvorlesung + Digital Rail Summer School	V + PS	Prof. Dr. Andreas Polze	4	6		DE
16	Dynamic Programming and Reinforcement Learning	V/Ü	Dr. Rainer Schlosser, Alexander Kastius	4	6		EN
17	Future Interactive Technology	V	Prof. Dr. Patrick Baudisch	4	6		EN
18	Future Internet	V	Prof. Dr. Holger Karl	4	6		nach Abst.
19	Global Team-Based Innovation II	P/S	Prof. Dr. Falk Uebernickel	4	6	15	EN
20	Hardware Conscious Data Processing	V	Prof. Dr. Tilmann Rabl	4	6		ENG
21	HCI Project Seminar: software systems for VR, personal fabrication, and Haptics	S	Prof. Dr. Patrick Baudisch	4	6		EN
22	Image & Video Processing - Concepts and Techniques	V/Ü	Dr. Matthias Trapp, Max Reimann, Sumit Shekhar	4	6		DE
23	Informationsintegration	V	Prof. Dr. Felix Naumann	4	6		DE
24	Knowledge Graphs meet Language Models	S	Prof. Dr. Felix Naumann, Nitisha Jain, Alejandro Sierra	2	3	8	EN
25	Machine Learning on Spatio-Temporal Graphs	PS	Prof. Dr. Holger Giese, Christian Adriano, Matthias Barkowsky, Iqra Zafar	4	6		EN
26	Managing and Researching Healthcare Systems	VL	Prof. Dr. Reinhard Busse, Dr. Wilm Quentin	4	6		EN
27	Methoden der Forschung	S	Prof. Dr. Felix Naumann	2	3	6	DE
28	Mishaps in Statistics and ML	S	Prof. Dr. Bernhard Renard, Dr. Katharina Baum	2	3	6	EN
29	Modeling in Process Mining	S	Prof. Dr. Mathias Weske, Tom Lichtenstein	4	6		EN
30	Multi-Agent Reinforcement Learning on Self-Adaptive Systems	PS	Prof. Dr. Holger Giese, Christian Adriano, He Xu	4	6		EN
31	Natural Language Processing	V/Ü	Prof. Dr. Gerard de Melo	4	6	40	EN
32	Networking and Machine Learning	S	Prof. Dr. Holger Karl	4	6		EN
33	Netzwerksicherheit	V	Prof. Dr. Christian Dörr	4	6		DE
34	Neuro-Symbolic Methods for Machine Learning-Based Systems	PS	Prof. Dr. Holger Giese, Christian Adriano, Mustafa Ghani	4	6		EN
35	PACE Challenge 2022 - in Abstimmung -	PS	Dr. Catrin Casel	4	6	10	EN
36	Parametrisierte Algorithmen	V/Ü	Dr. Katrin Casel	4	6		EN
37	Password-based Authentication: Attacks & Defenses	S	Prof. Dr. Anja Lehmann, Dennis Dayanikli	2	3	10	EN
38	Practical Applications of Deep Learning	S	Dr. Haojin Yang, Christian Bartz, Ting Hu, Joseph Bethge, Goncalo Mordido, Ziyun Li	4	6		EN
39	Probability and Computing	V/Ü	Prof. Dr. Tobias Friedrich, Dr. Samuel Baguley, Dr. Andreas Göbel	4	6	30	EN
40	Programmierung Paralleler und Verteilter Systeme	V	Prof. Dr. Andreas Polze	4	6		DE
41	Project Seminar: Lean Interactive Theorem Prover	PS	Prof. Dr. Tobias Friedrich, Dr. Samuel Baguley, Nadym Mallek	4	6	12	EN
42	Quantum-Safe Cryptography	V	Prof. Dr. Anja Lehmann, Dr. Gregor Seiler	2	3		EN
43	Reverse Engineering	PS	Prof. Robert Hirschfeld, Dr. Jens Lincke, Dr. Marcel Taeumel	4	6		DE
44	State-of-the-Art Visual Media Analysis and Processing	S/P	Dr. Matthias Trapp, Max Reimann, Sumit Shekhar	4	6		DE
45	~~ALT: Trends and Concepts in the Software Industry I~~ NEU: Trends and Concepts of Business Application Architecture	V	Prof. Dr. Hasso Plattner, Dr. Michael Perscheid, Stefan Halfpap, Werner Sinzig, Lukas Böhme, Tobias Wuttke, Ralf Teusner	4	6		EN
46	Trends in Betriebssystemen und Middleware (Forschungsseminar)	S	Prof. Dr. Andreas Polze	2	3	20	DE
47	Usable Security and Privacy	S	Prof. Dr. Christoph Meinel, Dr. Anne Kayem	4	6		EN
48	Web Programming and Collaborative Filtering	PS	Prof. Dr. Patrick Baudisch	4	6		EN
65	Behavioral Authentication and Machine Learning	S	Prof. Dr. Christoph Meinel, Erik Klieme	4	6		EN
	Professional Skills - LV						
49	Academic Writing for Science	S	Dr. Sharon Nemeth	2	3	15	EN
50	Advanced Track Desgin Thinking (D-School) Bewerbung bei der D-School: www.hpi.de/d-school/application	P/S	Dr. Claudia Nicolai	6	9	30	EN
51	Basic Track Design Thinking (D-School) Bewerbung bei der D-School: www.hpi.de/d-school/application	P/S	Dr. Claudia Nicolai	6	9	80	EN
52	Dealing with uncertainty	S (Block)	Christoph Burger	2	3	30	EN
53	Führungskompetenz	S (Block)	Michael Heidemann, Eugen Unger	4	6	30	DE
54	Global Design Thinking-Workshop: Global Design Thinking Challenge (D-School)	P/S	Dr. Claudia Nicolai	2	3	40	EN
55	Interpersonelle Konflikte, Konfliktmanagement und Verhandlungsführung	S (Block)	Prof. Dr. Dorothea Schulze	2	3	15	DE
56	Konflikt- und Kommunikationsmanagement	S (Block)	Eva Bilstein	2	3	15	DE
57	Management & Leadership: "Moments of truth"	S	Dr. Jana Leidenfrost	2	3	25	DE
58	Management Essentials	V	Prof. Dr. Eric Kearney	2	3	25	EN
59	Product Builder	S	Dr. Frank Pawlitschek, David Hahn	4	6	25	EN
60	~~ALT: Sonic Thinking Lecture – Methods of Working with Sound~~ NEU: Sonic Thinking – Computer Music Basics	V	Dr. Julia von Thienen, Dr. Henrik von Coler	2	3		EN
61	~~ALT: Sonic Thinking Seminar – Methods of Working with Sound~~ NEU: Sonic Thinking - Artistic Research into Sound	S	Dr. Julia von Thienen, Dr. Marisol Jimenez	2	3		EN
62	Wayfinder: Self- and Leadership Development (D-School)	P/S	Dr. Martin Schwemmle, Dr. Claudia Nicolai	2	3	18	EN
63	Daten- und KI-Ethik	S (Block)	Prof. Robert Ranisch	2	3	20	DE
64	How to be a (Startup)-CTO	S	Dr. Frank Pawlitschek	2	3	30	DE

	IT-Systems Engineering					Business Process & Enterprise Technologies			Human Computer Interaction & Computer Graphics Technology			Internet, Security & Algorithm Engineering			Operating Systems & Information Systems Technology			Software Architecture & Modeling Technology			Professional Skills				
	ITSE					BPET			HCGT			ISAE			OSIS			SAMT			PSK				
	Analyse	Entwurf	Konstruktion	Maintenance	Management-Kompetenzen	Konzepte und Methoden	Techniken und Werkzeuge	Spezialisierung	Konzepte und Methoden	Techniken und Werkzeuge	Spezialisierung	Konzepte u Methoden	Techniken und Werkzeuge	Spezialisierung	Konzepte und Methoden	Techniken und Werkzeuge	Spezialisierung	Konzepte und Methoden	Techniken u Werkzeuge	Spezialisierung	Recht und Wirtschaft	Kommunikation	Design Thinking Basic	Design Thinking Advanced	Management und Leitung
	HPI-ITSE-A	HPI-ITSE-E	HPI-ITSE-K	HPI-ISTE-M	HPI-MK	HPI-BPET-K	HPI-BPET-T	HPI-BPET-S	HPI-HCGT-K	HPI-HCGT-T	HPI-HCGT-S	HPI-ISAE-K	HPI-ISAE-T	HPI-ISAE-S	HPI-OSIS-K	HPI-OSIS-T	HPI-OSIS-S	HPI-SAMT-K	HPI-SAMT-T	HPI-SAMT-S	HPI-PSK-RW	HPI-PSK-KO	HPI-PSK-DTB	HPI-PSK-DTA	HPI-PSK-ML
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