Forum Bildverarbeitung 2020

Programm am 26.11.2020

Zeit	Aktion	Autor	Organisation	Titel
09:00	Begrüßung und Eröffnung			
				3D
09:15	Vortrag	Christian Kapeller	AIT – Austrian Institute of Technology GmbH	Inline battery foil inspection using strobed Photometric Stereo
09:40	Poster	Franziska Müsebeck	Uni Kaiserslautern	Minimal paths for 3D crack detection in concrete
09:45	Vortrag	Frank Bieder	FZI Research Center for Information Technology	Fusion of Sequential Information for Semantic Grid Map Estimation using LiDAR Measurements
10:10	Vortrag	David Uhlig	KIT-IIIT	Light Field Reconstruction using a Generic Imaging Model
10:35	Pause			
				Bildgewinnung
10:50	Vortrag	Alkhazur Manakov	Imago Technologies GmbH	Characterization of Event-Based Image Sensors in Extent of the EMVA 1288 Standard
11:15	Poster	Alexander Haider	AIT – Austrian Institute of Technology GmbH	Modulares Ringlicht für Photometrische Analyse von Mikrostrukturoberflächen
11:20	Vortrag	Bernd Jähne	Uni Heidelberg IWR	Release 4 of the EMVA 1288 Standard: Adaption and Extension to Modern Image Sensors
11:45	Poster	Maximilian Schambach	KIT-IIIT	Automated Quantitative Quality Assessment of Printed Microlens Arrays
11:50	Vortrag	Christian Kludt	Fraunhofer IOSB	Light Field Illumination: A Universal Lighting Approach for Transparent Object Inspection
12:15	Mittagspause			
				Maschinelles Lernen
13:15	Vortrag	Lukas Lucks	Fraunhofer IOSB	Weizenährenerkennung mittels neuronalen Netzen auf Basis von photorealistisch generierten Trainingsdaten
13:45	Vortrag	Naveen Raj Datha	Fraunhofer IFF	Measuring similarity of rendered and real image pairs using domain translation by employing Conditional Generative Adversarial Networks
14:10	Poster	Alexander Geng	TU Kaiserslautern	Comparing optimization methods for Deep learning at the example of Artistic Style Transfer
14:15	Vortrag	Nina Felicitas Heide	Fraunhofer IOSB	A Contribution to Dataset Assessment for Artificial Neural Networks in Image Processing
14:40	Pause			
				Navigation
14:55	Vortrag	Rebekka Peter	KIT-MRT	Efficient Ego Lane Detection for Various Lane Types
15:20	Vortrag	Kathe Endres	IAV GmbH	Robuste kameragestützte Präzisionslandung von automatisiert fliegenden Systemen
15:45	Poster	Günter Saur	Fraunhofer IOSB	Assistenzsystem zur Erzeugung parallaxenfreier Bildpaare für die Änderungsdetektion
15:50	Vortrag	Michael Schleiss	Fraunhofer FKIE	Image-based Geolocalisation for UAVs
16:15	Ende Tag 1			

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Zeit	Aktion	Autor	Organisation	Titel
09:00	Plenarvortrag	Marco Huber	Uni Stuttgart-IFF	Einführung in die Künstliche Intelligenz und das maschinelle Lernen, Anwendungsbeispiele für industrielle Bildverarbeitung, Forschungsfragen zur Absicherung maschinell gelernter Modelle
09:45	Pause			
				Maschinelles Lernen
09:50	Vortrag	Tobias Schlagenhauf	KIT-WBK	Domain knowledge-based extraction of damage image features on ball screw drive spindles
10:15	Poster	Raja sekar Shantha kumar	Thuenen Institute of Baltic Sea Fisheries	Hierarchical classification, counting and length measurement of fish using a stacking model approach
10:20	Vortrag	Julia Hartung	TRUMPF Laser GmbH	Camera-based spatter detection in laser welding with a deep learning approach
10:45	Poster	Roman Lehmann	KIT-ITEC	Binary Maps for Image Separation in Iterative Neuronal Network Applications
10:50	Vortrag	Norbert Mitschke	KIT-IIIT	Semantische Segmentierung von Ankerkomponenten von Elektromotoren
11:15	Pause			
				3D
11:30	Vortrag	Miao Zhang	KIT-IA	Analysis of the flight- and combustion behaviour of refuse-derived fuel particles based on a light-field camera system
11:55	Poster	Marcus Petz	TU Braunschweig-IPROM	Advances in deflectometric form measurement
12:00	Vortrag	Steffen Sauer	Fraunhofer IFF	A Portal for Interactive Geometry Inspection of Large Mechanical Parts
12:25	Poster	David Barton	KIT-WBK	Concept for collision avoidance in machine tools based on geometric simulation and sensor data
12:30	Vortrag	Elias Birkefeld	KIT-MRT	Manual LiDAR to Camera Calibration in Virtual Reality
12:55	Mittagspause			
				Bildverarbeitung
13:55	Vortrag	Fabian Stoller	Helmut-Schmidt-Universität Hamburg	Lokalisierung von Flammen und Glut für das automatisierte Löschen von Bränden
14:20	Poster	Niels-Ole Rohweder	Simulation Science Center Clausthal-Göttingen	Towards a remote EEG for human-machine-interfaces
14:25	Vortrag	Frederick Struckmeier	TRUMPF Werkzeugmaschinen GmbH + Co. KG	Methods for the localization of supporting slats of laser cutting machines in single images
14:50	Poster	Laura Dörr	FZI Research Center for Information Technology	Image Processing Pipeline for Automated Packaging Structure Recognition
14:55	Vortrag	Christopher Schwäbig	Fraunhofer FHR	A realtime SAR image processing system for a millimetre wave radar NDT scanner
15:20	Poster	Bastian Erdnüß	Fraunhofer IOSB	Leistungsstarke und effziente Bildinterpolation
15:25	Poster	Marco Gierlinger	Uni Linz, Institute for Measurement Technology	Multi-Seed Region Growing Algorithm for Medical Image Segmentation
15:30	Best Paper Award, Zusammenfassung und Schlussworte			
15:35	Ende Tag 2			