

Dear partners and friends,

herewith we want to remind you about our upcoming [SpectroNet Collaboration Conference 2022](#) on 07.09.-08.09.2022 in Jena!

We have updated our well known conference concept for even more dynamic and interactive exchange.

During the two days you can expect:

- 32 presentations in 4 sessions,
- 2 keynotes,
- 1 interactive workshop,
- an industrial exhibition, and
- an evening event where you can enjoy the most beautiful view on city of Jena.

Register as Participant

Here we have summed up all information about the [SpectroNet Collaboration Conference 2022](#) (SCC2022). Please check out our Supporters, the Participants so far and the complete Agenda with Speakers and thier Topics!



in collaboration with

[CHII - Conference on Hyperspectral Imaging in Industry](#)

and the alliances

**From Research to Industry - Multimodal Photonic Sensing
Empowering Developments in Measurement and Quality Assurance
for Industry, Forestry and Life Sciences**

07.09.-08.09.2022, Jena, Germany

Registration 09:00 a.m. CEST

Technologie- und Innovationspark Jena GmbH

Hans-Knöll-Straße 6, 07745 Jena, Germany

SUPPORTED BY:



Phenix



[Register as Participant](#)

Registered Participants SCC 2022

(Stand: 08/19/22)



Day 1 – 07.09.2022

Session 1: Photonic Sensing Solutions

TIME	NR.	TOPIC;SPEAKER	URL
09:45 - 10:00	01	Miniaturised Spectrometer Modules for Applications in Agriculture, Forestry, PAT and PoC; Dr. Oliver Pust - Ibsen Photonics A/S	ibsen.com
10:00 - 10:15	02	How UV is affecting our daily life and we open new perspectives to manage it – An overview about new UV sensing capabilities; Markus Buß - ams Sensors Germany GmbH	ams-osram.com
10:15 - 10:30	03	New possibilities for identifying fluorescent and dark samples with handheld Raman Spectrometers; Stefan Geisler - Deutsche METROHM GmbH & Co. KG	metrohm.de
10:30 - 10:45	04	New Approaches for broadband multi and hyper spectral camera systems; Dr. Heinrich Grüger - Fraunhofer IPMS	ipms.fraunhofer.de
10:45 - 11:00	05	Chip-Size Spectrometers in Low-Cost CMOS Technology; Dr. Stephan Junger - Fraunhofer IIS	iis.fraunhofer.de
11:00 - 11:15	06	Narrow Band Pass and Very Narrow Band Pass IR Filters and some Applications; Ian Reilly - Vortex Optical Coatings Ltd.	vortexopticalcoatings.co.uk
11:15 - 11:30	07	Thuringian Innovation Centre for medical technology solutions Jena – Ilmenau; Dr. Stefanie Reuter - Jena University Hospital, ThIMEDOP	med.uni-jena.de
11:30 - 11:45	08	Using spectral information in agriculture and plant breeding; Stefan Paulus - Institute of sugar beet research	ifz-goettingen.de

Keyote 1

5D Imaging: Multimodal Vision Technologies

Session 2: Machine Vision Solutions

TIME	NR.	TOPIC;SPEAKER	URL
14:00 – 14:15	09	AI-ready imaging modules for biomedical and life science applications; Daniel Kraus - Opto GmbH	opto.de
14:15 – 14:30	10	Multi modal high precision 2D/3D inspection; Dirk Fromme - 3plusplus GmbH	3plusplus.com
14:30 – 14:45	11	Higher quality in plastic recycling by innovations in sorting systems; Prof. Dr. Thomas Längle - Fraunhofer IOSB	iosb.fraunhofer.de
14:45 – 15:00	12	Clinical translation of vibrational spectroscopy; Prof. Dr. Iwan Schie - Ernst-Abbe-Hochschule Jena	eah-jena.de
15:00 – 15:15	13	Redefining Precision Smart 3D Laser Profiling with 4K+ Resolution; Christian Benderoth - LMI Technologies	lmi3d.com
15:15 – 15:30	14	Machine vision for efficient cooking; Dr. Helge Nelson - Miele & Cie. KG	miele.com
15:30 – 15:45	15	Soft x-ray and XUV detecting; Jan-Hendrik Budde - XIMEA GmbH	ximea.com
15:45 – 16:00	16	Mobile Sensing with miniaturised NIR spectrometers; Dr. Robert Brückner - Senorics GmbH	senorics.com

Session 3: Photonic & Machine Vision in Industry and Beyond

TIME	NR.	TOPIC;SPEAKER	URL
16:15 – 16:30	17	Infrared Detectors for FTIR spectroscopy; Tim Huylebrouck - Laser Components Germany GmbH	lasercomponents.com
16:30 – 16:45	18	Color correction for hyperspectral Imaging lenses; Andreas Platz - Sill Optics GmbH & Co. KG	silloptics.de
16:45 – 17:00	19	Determination of hygiene related indicators on conveyor belts in the food industry during the running production cycle; Dr. Frank Stüpmann - Silicann Systems GmbH	silicann.com
17:00 – 17:15	20	LED light sources for hyperspectral imaging and machine vision; Martin Grünefeld - EPIGAP Optronic GmbH	epigap-osa.de
17:15 – 17:30	21	Machine vision lenses, stereo microscopes and customized optical solutions for industrial applications; Renata Specht - Phenix Optics Co., Ltd.	phenixoptics.com.cn
17:30 – 17:45	22	Application of laser-based surface acoustic wave spectroscopy for the evaluation of mechanical material properties; Felix Brand - Institute of Sensor and Actuator Technology Coburg University of Applied Sciences and Arts	hs-coburg.de
17:45 – 18:00	23	SiN Photonics: From Lab to Business; Joni Mellin - XFAB AG	xfab.com

Day 2 – 08.09.2022

Keyote 2

Photonic and Machine Vision as Necessary Tools in Forestry and Wood Industry

Prof. Erik Findeisen - Fachhochschule Erfurt

Interactive Workshop: WIR! - Holz-21-Regio

TIME	NR.	TOPIC;SPEAKER	URL
10:45 – 11:20	2A	Machine-aided plant vitality data acquisition; Sascha Lummitsch - WIR! - Bündnis Holz-21-regio	holz-21-regio.de
11:20 – 11:55	2B	Demands for future remote sensing of forest data; Patrick Voigt - WIR! - Bündnis Holz-21-regio	holz-21-regio.de
11:55 – 12:30	2C	Camera based measurement of forest infrastructures; Nils Fischer - CONTURA project	fnr.de

Session 4: Advanced Multimodal Imaging & Sensing

TIME	NR.	TOPIC;SPEAKER	URL
14:00 – 14:15	24	Goals of the RUBIN Alliance AMI - Advanced Multimodal Imaging; Prof. Dr. Gunther Notni - Fraunhofer IOF	iof.fraunhofer.de
14:15 – 14:30	25	Multispectral Illumination for imaging processing - possibilities and advantages; Raphael Gerlach - Steinbeis Qualitätssicherung und Bildverarbeitung GmbH	sqb-ilmenau.de
14:30 – 14:45	26	Intelligent Hyperspectral Image Processing of Building Materials Using AI; Dr. Katharina Anding - Technische Universität Ilmenau	tu-ilmenau.de
14:45 – 15:00	27	Ultra-compact snapshot multimodal camera; Dr. Robert Brüning - Fraunhofer IOF	iof.fraunhofer.de
15:00 – 15:15	28	Operational use of UAV in forestry; Kerstin Traut - ThüringenForst AöR	forst.thueringen.de
15:15 – 15:30	29	LEJ II Light sources & ballasts for hyperspectral imaging; Dr. Jörg Wagner - Leistungselektronik JENA GmbH	lej.de
15:30 – 15:45	30	Calibration of hyperspectral cameras using integrating spheres as a radiance standard; Sebastian Seuferting - Gigahertz-Optik GmbH	gigahertz-optik.de
15:45 – 16:00	31	Moisture sensing for Fruit and Food Freshness - The benefits of NIR sensing in industrial and consumer solutions; Kevin Jensen - ams Sensors Germany GmbH	ams-osram.com
16:00 – 16:15	32	Sum-Up of the Conference and Closing; Paul-Gerald Dittrich - SpectroNet	spectronet.de

Register as Participant

We look forward to welcome you in Jena.



Paul-Gerald Dittrich

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