

**International SIGHT Workshop and Ideation Camp on Technical Support in Refugee Crises
16.7-18.7. 2019, Ruhr University Bochum, Germany**

Schedule

	TUE, 16.7.2019	WED, 17.7.2019	THU, 18.7.2019
8:30	Registration ID 04	IC-Keynote4 (Lastuka)	Jury Presentations
9:00		Ideation Camp Seminar Rooms ID03	
9:30			Coffee break
10:00			
10:30		Ideation Camp Seminar Rooms ID03	Jury Presentations
11:00			Award Ceremony
11:30		Lunch break	Lunch break
12:00			
12:30		SIGHT Keynotes ID 04/445	
13:00			
13:30			
14:00			
14:30			
15:00		IC-Keynote1 (Weiner)	
15:30	IC-Keynote2 (Medick)		
16:00	Coffee break	Coffee break	
16:30	IC-Keynote3 (Integreat)	Ideation Camp Seminar Rooms ID03	
17:00	Team formation		
17:30			
18:00	Welcome Reception		
18:30			
19:00			
19:30			
20:00	Atrium ID		
21:00			
22:00			

Ideation Camp-Keynotes, ID 03/401 (in collaboration with RF-Days2019)

	Time	Speaker	Title
Tue, 16.7.19	14:30- 15:00	Dr. Christoph Baer, IEEE SIGHT Germany Section	Welcome message
	15:00- 15:30	Amit Weiner IsraAid	Dominican Shelter Project
	15:30- 16:00	Merle Medick Federal Agency for Technical Relief	Migration-Related Knowledge Management for Civil Protection of the Future
	16:00 - 16:30	Coffee Break	
	16:30- 17:00	D. Kehne, S. Seeberg Tür an Tür-Digitalfabrik	"Integreat" Your digital guide for Germany- How to transfer an idea from 1997 into the digital age
Wed, 17.7.19	8:30- 9:00	Dr. Amy Lastuka, Center for Sustainable Energy	Seeking Asylum in the United States

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SIGHT-Keynotes ID 04/455 (in collaboration with IEEE IMWS-AMP)

Wed, 14:20-14:40

Activities of IEEE Sight Egypt Section

Mohammad Sief

In 2017, IEEE Egypt SIGHT group has been established with a mission of providing technical solutions for problems in our community. During 2017, we started with capacity building activities to have a strong team. During 2018, We have got funded for our first SIGHT project "Enta Mnawar" (In English: "You Are The Light"). It is an OFF Grid PV solar energy project to provide electricity and to improve the standard of living in a poor village in Assiut city, Egypt. Also, we've held an IEEE HAC event called "SIGHT Ideation Camp" which is going to be an annual event aims to encourage the innovative ideas for humanitarian projects to be shared and to compete.



Mohammad Sief

Wed, 14:40-15:00

Agriculture, Climate & Technology in Indian Ocean Network (ACTION)

Vikass Monebhurrun



Vikass Monebhurrun

As an immediate consequence of the global climate change, disastrous flash floods are regularly being observed in different parts of the world. Heavy rainfall within a short time period coupled with an ineffective drainage system causes dramatic human, financial and infrastructure losses. The drainage system may not yet be appropriate to cope with the new climatic conditions, especially in many under-developed and developing countries. On the island of Mauritius, a flash flood caused the death of several persons trapped in an underground tunnel in 2013. Agriculture and economy of a country are also highly impacted by floods and droughts. Although global weather forecasting has improved, more accurate information about local weather conditions may be required under micro-climate conditions. Such information is also of vital importance to farmers for the optimization of their crops [1-3]. Cheap localized automatic weather stations may help provide sufficiently small spatial resolutions to integrate the local climatic variations. To address these problems, IEEE SIGHT Indian Ocean received the Ulrich L. Rohde Humanitarian Technical Field Project Award (\$10 000) for the Agriculture, Climate & Technology in Indian Ocean Network (ACTION) project. The objective of the ACTION project is to design and to implement low-cost connected solar-powered weather stations both in Mauritius and Reunion islands. Deployed as a mobile application, regular local weather conditions will be provided based on data collected

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from the local weather stations as well as weather information available from other sources to help farmers optimize their crops and to serve as an early warning system. For an efficient and reliable solar-powered weather station it is important to investigate several aspects of the design and development: microcontroller, sensors, firmware, power consumption, radio propagation, weather station enclosure, etc. The presentation will provide an update about the progress of this project.

[1] G. Pineres-Espitia, A. Cama-Pinto, F. Estevez, D. Cama-Pinto, and D. de la Rosa, "Design of a low cost weather station for detecting environmental changes," *Revista Espacios*, No. 59, Vol. 38, 2017, pp. 13.

[2] H. Saini, A. Thakur, S. Ahuja, N. Sabharwal and N. Kumar, "Arduino based automatic wireless weather station with remote graphical application and alerts," in *Proc. 2016 3rd International Conference on Signal Processing and Integrated Networks (SPIN)*, 11-12 Feb. 2016.

[3] M. Popa, and C. Iapa, "Embedded weather station with remote wireless control," in *Proc. 2011 19th Telecommunications Forum (TELFOR)*, 2-24 Nov. 2011.

Wed, 15:00-15:40

Role of IEEE SIGHT in sustainable development space

Sampathkumar Veeraraghavan

Underserved communities around the world are able to benefit from technology as they seek sustainable solutions to development challenges. In this keynote talk, the author will present on the application of technology in addressing global humanitarian challenges and best practices to design an effective sustainable development program. Specifically, this talk will address how IEEE members can participate in the Special Interest Group on Humanitarian technology (SIGHT) program to design and deliver innovative solutions in the sustainable development space. We will discuss case studies on how IEEE volunteers can partner with local communities and organizations to design and execute sustainable development projects aimed at benefiting resource-constrained and undeserved communities across the globe. Furthermore, we will provide an overview of the SIGHT program, SIGHT group structure, SIGHT funding opportunities, partnership models, and recommendations of relevant resources.



Sampathkumar Veeraraghavan