

Mini Workshop on Communication for Smart Networks and Systems

Hotel Bellevue, Boppard, Germany

August 26 - 29, 2018



Chairs

Han Vinck (UDE, Duisburg)
Adel Ghazel (Supcom, Tunis)

Technical Program

Fatma Rouissi (Supcom)
Anil Mengi (Devol)

International Advisors

Adriaan de Lind van Wijngaarden
(Bell-Nokia, USA)

Local Arrangements

Han Vinck, UDE, Duisburg, Germany

Important dates

Register and book hotel (special price)
before July 23rd .

Email: info@bellevue-boppard.de

Sponsors

University Duisburg-Essen
BMBF project NBPLC

Travel

Train schedules: www.bahn.de

We concentrate on communication problems in smart networking and systems. Particularly contributions on, Powerline(PLC) -, Visible Light Communication (VLC) and communication for the Internet of Things (IoT) will be of interest. We furthermore invite presentations for a broad audience that are related to the communication problem in general.

Hotel: Rooms can be booked directly at www.bellevue-boppard.de, under the keyword "Vinck". Use the email address info@bellevue-boppard.de to get the special price (€ 92,00 single, including breakfast, sauna, fitness, pool). Boppard is in between Frankfurt and Aachen and easy to reach by train or car. It is about 2 Kilometers from the famous Loreley. We also plan an excursion on Tuesday August 28.

The [registration](#) fee, Euro 225.-, includes get-together, 2 x lunch, 2 x dinner, coffee breaks and proceedings. We kindly request the registration and hotel bookings before July 23rd .

For information please contact

Prof. [Han Vinck](#), Univ. of Duisburg-Essen, Germany (email: han.vinck@uni-due.de)
or Prof. Adel Ghazel, Supcom Tunis, Tunisia, email: adel.ghazel@supcom.tn

Sponsored by: **TURING MACHINES BV, Rotterdam, the Netherlands and BMBF (Germany)**

Program

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Sunday:	26.08	18.00	Get together and Flying buffet
Monday:	27.08	09.45 - 17.00	Technical sessions
Tuesday	28.08	09.00 – 12.30	Technical sessions
		15.00 – 17.30	Excursion

Presentations

Adel Ghazel and A.J. Han Vinck,

Overview of the NBPLC project between Tunisia and Germany

Adel Ghazel (SUP'COM, University of Carthage, Tunisia)

*Narrow-Band PLC Potential IoT Applications and Optimized Communication
Technology Solutions*

Han Vinck (University Duisburg-Essen)

Impulse Noise Mitigation for FSK and OFDM

Safa Najjar (SUP'COM, University of Carthage)

Binary Coded Modulation for Combating Narrow Band PLC Channel Constraints

Safa Najjar (SUP'COM, University of Carthage)

*SFSK versus OFDM Performances under the Narrowband PLC Channel
Impairments*

Fatma Rouissi (SUP'COM, University of Carthage)

Impulse Noise Modelling in the Narrowband Indoor PLC Channel

Allan Emleh (University Johannesburg, South Africa)

Impact of Lighting Technology on the Power Grid

Slim Rekhis (SUP'COM, University of Carthage)

*Secure and QoS aware Sensor Cloud Architecture for the supervision of critical
resources*

Nejla Ben Brahim (STEG, Tunisia)

*Smart Grid Program of STEG: Presentation, Objectives, Technological and
Telecommunication Solutions*

Yanling Chen (University Duisburg-Essen)

Coding for Chipless RFID

Werner Henkel (Jacobs University Bremen)

Physical-layer security in wireless and powerline transmission

George Hallak, (Bottrop University of Technology)

Impedance measurements for PLC

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R E G I S T R A T I O N

Participants are requested to register by Email (han.vinck@uni-due.de) as soon as possible. A limited number of rooms have been blocked!

Name	1 st name/init
My contribution:	
Email address	
Signature	
Are you interested in the Tuesday afternoon excursion?	

EXCURSIONS in BOPPARD (chose one)

- Museum Visit: <http://museum-boppard.de/start-english/>



Thonet: famous designer of furniture

- To the Boppard spectacular view by cable car: Guide is Hiro Morita
- https://www.tripadvisor.de/ShowUserReviews-g198627-d3306006-r172756444-Sesselbahn_in_Boppard-Boppard_Rhineland_Palatinate.html
- Boat tour to the Loreley
Boat leaves Boppard 14.00 and returns 16.50
<https://www.k-d.com/en/cruises/loreley-tour/>
- Guided tour (English) through the old Boppard city
<https://www.boppard-tourismus.de/85-1-Klassischer-Rundgang-mit-Besichtigung-verschiedener-Bauwerke.html>

Website Boppard Tourism:

<https://www.boppard-tourismus.de/1-1-Home.html>