Agenda
COST Action CA19111 NEWFOCUS

9th Working Group & 8th Management Committee Meeting (hybrid)
4-5 Mars 2024

<mark>**Venue:**</mark>
<mark>*Athenaeum Grand Hotel, 142 Syngrou Avenue, Kalithea, 17671 Athens, Greece*</mark>
https://athenaeumgrand.com.gr/portal/

Online meeting link: https://zoom.us/j/97832980213

Monday 04/03/2024, AM (EET: GMT+2)

9:00 – 9:15   Welcome / Connection

9:15 – 9:30   Welcome from host: Thomas Kamalakis and Mara Nikolaidi

9:30 – 10:30   Introduction by Action Chair/Vice-Chair: Ali Khalighi and Fary Ghassemlooy
- Recap of the minutes of the last MC/WG meeting.
- Last grant period reporting
- Overview of the WBP for the 4th grant period
- Information on project management and GH
- Important actions to take in short/mid term
- Next events: training school, meeting, workshop, final conference

10:30– 10:45   Update on STSMs (calls, procedures, etc.): Alexis Dowhuszko

10:45 – 11:00   Update on communication actions: Anna Maria Vegni

11:00 – 11:30   Coffee break

11:30–12:10   **Invited talk**: "Energy Harvesting for Point-to-Point and Relay-Aided FSO Communications," Chadi Abou-Rjeily, Lebanese American University, Lebanon

12:10 – 12:30   Reminder on TRR submission and COST Annotated Rules, Ali Khalighi/Davide Cavalieri

12:30 – 14:00   Lunch

Monday 04/03/2024, PM (EET: GMT+2)

14:00-14:45   Presentation of the newly launched COST Action, 6G-PHYSEC, Thuy Pham

Information on 6G-PHYSEC STSM possibilities: Angeliki Alexiou

14:45-15:15   Follow-up of the Action Roadmap, Alexis Dowhuszko

15:15-16:00   Update on WG1 activities: WG1 Vice Chair, Luis Alves
- Upcoming tasks & deliverables
- Statistics on input documents & publications
- Presentation of Input Documents
    1. G.-I. Uleru et al., "Pulse amplitude modulation for neuromorphic sensors with VLC"
    2. Carlos Iván del Valle Morales et al., "Characterization of a Perovskites Photovoltaic-based Optical Receiver"
    3. Luis Abade Rodrigues et al., "Implementation of Frame Synchronization Architecture for Visible Light Communications in IoT Scenarios".
    4. Namarig Mohemed Taha et al., "High-Speed IoT Networks in Healthcare"

16:00 – 16:15   Coffee break

16:15– 17:45   Update on WG2 activities: WG2 Chair, Nobby Stevens
- Upcoming tasks & deliverables
- Statistics on input documents & publications
- Presentation of Input Documents
    1. Elena Aparicio-Esteve et al., "Centralized Optical 3D Positioning System for Emitting Tags"
    2. F. B. Okumus et al., "Channel Estimation and Physical Layer Security in Optical MIMO-OFDM-based LED Index Modulation"
    3. M.Petkovic et al., "Slotted Aloha for Optical Wireless Communications in Internet of Underwater Things"
    4. Mucci, S. et al., "Physical-Layer Security in 6G Networks"
    5. N. Su, et al., "Transmit Precoding for Physical Layer Security of MIMO-NOMA-Based Visible Light Communications"
    6. Valeria Loscri et al., "LIBERO: LIght Bias as effective countermeasure against EavesdROpper attacks"
    7. J.A Apolo et al., "Experimental Demonstration of High-Precision 3D/2D Indoor Visible Light Positioning using an Imaging Receiver"
    8. Dimitrios Bozanis et al., "Proactive Resource Allocation for Aggregated VLC/RF Networks with Outdated CSI "
    9. Eleni Niarchou et al., "Experimental Evaluation of Wearable LED Strip and Side-Emitting Fiber for Optical Camera Communications Systems "

17:45 – 18:00   Open discussion

Tuesday 05/03/2024, AM (EET: GMT+2)

9:00 – 9:15   Welcome / Connection

9:15 – 9:45   **Invited talk**: "Light Communication Alliance, mission and ecosystem", Marc Fleschen

9:45 – 10:00   Update on the 4th Training School, Maximo Morales

10:00 – 10:15   Presentation of the new COST Action proposal, Mónica de Figueiredo

10:15 – 10:30   3rd white paper: scope, contributors, timeline, etc., Fary Ghassemlooy

10:30 – 10:45   Update on the activities of "OWC Terminology" SIG, Mauro Biagi

10:45– 11:00   Presentation of new WG members, Ali Khalighi

11:00– 11:10   Final Conference (Organizing committee, CFP), Ali Khalighi

11:10 – 11:30   Coffee break

11:30 – 11:50   Update on the activities of "Quantum Key Distribution" SIG, Alexis Dowhuszko

11:50 – 12:10   Update on the activities of "Communication & Sensing" SIG, Panagiotis Diamantoulakis

12:30 – 14:00   Lunch

Tuesday 05/03/2024, PM (EET: GMT+2)

14:00-15:30   Update on WG3 activities, Stanislav Zvanovec
- Upcoming tasks & deliverables
- Statistics on input documents & publications
- Presentation of Input Documents
1. V. K. Papanikolaou et al., "Simultaneous Lightwave Information and Power Transfer in 6G Networks"
2. G. T. Djordjevic et al., ""A method for generating random process having given first- and second-order statistics over FSO channel"
3. M. Elamassie, "Path Selection in Parallel Multi-Hop UVLC Systems over Turbulence Channels"
4. I. Sartori et al., "Effect of water-waves on recognition of speech signals transmitted over a wireless optical communication channel,"
5. M. Joharifar et al., "16.9 Gb/s Single-Channel LWIR FSO Data Transmission with Directly Modulated QCL and MCT Detector"
6. C. Guerra-Yánez et al., "Influence of ASE noise from EDFAs on a free-space QKD channel"

15:30 – 15:45   Organization of the Action Final Conference, Ali Khalighi

15:45 – 16:00   Coffee break

16:00 – 17:00   Update on WG4 activities, Amita Shrestha
- Upcoming tasks & deliverables
- Statistics on input documents & publications
- Presentation of Input Documents
1. Thai-Chien Bui et al. "Link budget and turbulence modelling for laser satellite communication system dimensioning"
2. Mohammed Elamassie, "FSO based Multi-Layer Airborne Backhaul Networks"

17:00 – 17:30   Open discussions and closing.