

# PHD DAY 2019

February 22<sup>nd</sup>, 2019 - Sala Stringa, FBK

**Best poster selection:** every participant can vote for the best poster by sticking a “best poster” sticker on the poster. Two stickers are delivered to each participant at the reception desk outside Sala Stringa.

[9:00 – 9:15] Welcome (Bernardo Magnini)

[9:15 – 9:30] Message from FBK’s President, Francesco Profumo

[9:30–10:15] Keynote: Stephan Haringer, *Silicon semiconductor Industry: The scientist’s role and opportunities*

[10:15–10:45] Short presentations (student graduating in Spring 2019)

1. Davit Harutyunyan, *Flexible Functional Split in the 5G Radio Access Networks*
2. Tommaso Morresi, *From atoms to extended structures via ab-initio and multi-scale simulations*
3. Rajeev Piyare, *Wake-up Radio based Approach to Low-Power and Low-Latency Communication in the Internet of Things*
4. David Novel, *Mechanical and physical characterisation of graphene composites*
5. Davide Pirrone, *Advanced Methods for Change Detection in Multi-polarization and Very-High Resolution Multitemporal SAR Images*

[10:45–12:15] Poster session (3<sup>rd</sup> and 4<sup>th</sup> year students) and coffee break

1. Sudipan Saha, *Multitemporal image analysis using deep learning*
2. Tahir Ahmad, *An Identity and Access Management Solution for the Internet of Things*
3. Roberto Doriguzzi, *Dynamic and Application-Aware Provisioning of Chained Virtual Security Network Functions*
4. Jacek Dabrowski, *Supporting Software Professionals in Analysing Online Users’ Feedback*
5. Matteo Biagiola, *Automating End To End Testing of Web Applications*
6. Giulia Bertò, *Anatomically-Informed Multiple Linear Assignment Problems for White Matter Bundle Segmentation*
7. Andrea Filippi, *Improving Silicon Photodetectors via Plasmonic Nanostructures*
8. Mattia Duranti, *Diagnostic of an Organic Flow Battery through Electrochemical Impedance Spectroscopy*
9. Ambra Fastelli, *Sequence Learning in Deaf Children with Cochlear Implants*
10. Greta Adamo, *On the notion of business process: an ontological analysis*
11. Md Masoon Rabbani, *Scalable and Trusted Remote attestation techniques for embedded systems*

12. Francesca Marchetti, *Enhanced solar desalination of water using graphene-based hybrid materials*
13. Alessandro Daniele, *Scenarios Interpretation with Prior Knowledge*
14. Isotta Landi, *Medical Sequence and Clinical Record Encodings for the Stratification of Complex Disorders*
15. Surafel Melaku Lakew, *Transfer Learning in Multilingual Neural Machine Translation with Dynamic Vocabulary*
16. Massimiliano Mancini, *Adaptive Deep Learning for Computer Vision*
17. Majid Zarghami, *Characterization and calibration of a quantum correlated photon detector*
18. Mattia Di Gangi, *Listen and Translate: End-to-end Direct Speech Translation*
19. Eleonora Grilli, *Supervised learning methods for the study of architectural 3D models*

[12:15–12:45] Short presentations (student graduating in Spring 2019)

1. Silvio Fugattini, *Binder-free porous germanium anode for Li-ion batteries*
2. Swathikiran Sudhakaran, *Deep Neural Architectures for Video Representation Learning*
3. Davide Giovanelli, *Bluetooth Low Energy based proximity detection and localization in smart communities*
4. Andrea Capuano, *Design, microfabrication and characterization of a Split-flow thin fractionation (SPLITT) electrical device for continuous extraction or binary separation of proteins*
5. Aravind Harikumar, *Tree species classification and forest parameter estimation using LiDAR remote sensing data*
6. Massaro Antonio, *Optimisation, games and learning strategies in telecommunication systems subject to structural constraints*

[12:45–13:15] Best Student Award, Best Poster Award and Excellence Certificates

## Keynote

**Title:** *Silicon semiconductor Industry: The scientist's role and opportunities*

**Speaker:** Stephan Haringer

**Short bio:** I received my Master's Degree in Chemistry at the Leopold Franzens University Innsbruck, Austria. Next, I joined a multinational silicon semiconductor industry for a short period. Subsequently, I started an industrial PhD in cooperation with the Physics Department of the University Trento, FBK and the company I worked for formerly. After I obtained my PhD Degree, I re-entered in the semiconductor company, where I led successfully several international R&D projects until I decided to leave the company to establish my own business. Since then I am working on building up my company, Scientific-solutions.

