PhD Student in Telecommunications Security - SU & ULB MSc, Electrical and Information Technology Engineering - ULB & VUB



LAST NAME / FIRST NAME: Golstein Sidney

PLACE AND DATE OF BIRTH: Uccle, Belgium | 03 May 1995

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EDUCATION

PhD in co-supervision between the GeePs Laboratory (Sorbonne University, Paris Saclay Univer-2018 - 2021 sity) and the Wireless Communication Group (Free University of Brussels) - EDITE sholarship Research focus on Physical Layer Security for Wireless Communications - Supervisor: Pr. Julien Sarrazin.

2016 - 2018 Master of Science in Electrical Engineering focus electronics and information technologies at Brussels Faculty of Engineering - magna cum laude

Major: Information and Communication Technology Systems

Bachelor of Science in Engineering focus Electronics and Information Technologies at Brussels 2013-2016 Faculty of Engineering - cum laude

PUBLICATIONS

Nov. 2020 Author of Physical Layer Security in a SISO Communication using Frequency-Domain Time-Reversal OFDM Precoding and Artificial Noise Injection. Under Reviewing in IEEE Transactions on Wireless Communications

Co-author of IQ Based Direct Sequence Spread Spectrum Spatial Data Focusing implemented over a 6 MAR. 2020 Ray Urban Canyon Channel Model.

Published in URSI-France Conference in Palaiseau, France.

Author of Physical Layer Security in Frequency-Domain Time-Reversal SISO OFDM Communication. FEB. 2020 Published in ICNC 2020 Conference in Big Island, Hawaii.

Author of Influence du canal de propagation sur la sécurité d'une communication SISO utilisant le OCT. 2019 retournement temporel dans le domaine fréquentiel et l'ajout de bruit artificiel. Published in GDR Ondes 2019, in Gyf-sur-Yvette, France.

MAY 2019 Author of Focalisation Spatiale de Données via une approche temporelle. Published in XXIèmes Journées Nationales Microondes, in Caen, France.

Co-author of Focalisation Spatiale de Donnée avec modulation à étalement de spectre. MAY 2019 Published in XXIèmes Journées Nationales Microondes, in Caen, France.

FEB. 2019 Author of Spatial Data Focusing using time resources. Published in IRACON EURO-COST meeting in Dublin, Ireland.

JUL. 2018 Co-author of Spatial Data Focusing: an alternative to Beamforming for geocasting scenarios. Published in IEEE Antennas and Propagation Symposium conference in Boston, USA.

EXPERIENCE

Master Thesis

Research Thesis: *Hyper Resolution Spatial Data focusing: a time domain approach.* 2017-2018

> 2017-2018 Academic year - Theoretical development and experimentation with USRP of the Time Spatial Data Focusing theory. - summa cum laude .

Supervisor: Pr. Philippe De Doncker

Internship

2017 | Research Internship at Pierre-and-Marie-Curie University, Paris VI.

From Aug. 2017 to Oct. 2017. Development of a LabVIEW Communication 2.0 application using NI USRP to assess Spatial Data

Focusing theory.

Supervisor: Pr. Julien Sarrazin

Certification

OCT. 2017 | Wireless prototyping fundamentals using LabVIEW Communications 2.0 and NI SDR.

The certification was delivered by National Instruments France SAS. The formation took place at ESIEE Paris, Noisy-le-Grand to learn the fundamentals of LabVIEW Communication.

Projects

2017-2018 | Implementation of a complete SIMO OFDM transceiver chain using Matlab.

Implementation of a Lossless Bilevel Image Codec using C++.

2016-2017 | Crowd monitoring based on WiFi for the Brussels Major Event Company.

Design and simulation of the DVB-S2 communication chain using Matlab.

Student jobs

2015-ONGOING

Teaching Assistant during summer exams at Blocus Assistance

[40h/w, 3 weeks a year]. For bachelor students in physics, mathematics, mechanics, electricity, electromagnetism, algebra, statistics to prepare their retake exams.

LANGUAGES

FRENCH: Native speaker | ENGLISH: Advanced Knowledge | DUTCH: Basic Knowledge

SOFTWARE SKILLS

Advanced skills | Matlab, LaTeX, Git, LabVIEW Communication 2.0 System Design, Octave, Office 365.

Skills | Python (TensorFlow), Java, C, C++.

INTEREST AND ACTIVITIES

Music: | Played piano for 14 years.

Sport | Football, Tennis, Fitness, Padel.

Other | Deep interests in Artificial Intelligence, Telecommunication, Machine Learning, IoT, scientific readings.

Travelling, City Sightseeing.