

**CV**  
**Eng. Mihai COCA**

**Personal Information**

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Date of birth [REDACTED]

**Education**

2017 - Present PhD degree, University POLITEHNICA of Bucharest (UPB), Faculty of Electronics, Telecommunications and Information Technology, Research Center for Spatial Information (CEOSpaceTech), Bucharest, Romania.  
Thesis title: Hybrid artificial intelligence methods for latent information extraction from remote sensing images: on-board natural hazard analysis.

2019 Advanced course in the field of Cyber Defense Technologies.

2018 ESA Echoes in Space course.

2018 Three months internship at German Aerospace Center, Weßling, Germany.

2018 BigSkyEarth Training School at Vicomtech, San Sebastian, Spain.

2015 - 2017 Master's degree in "Information Security", Faculty of Military Electronic and Information Systems, Military Technical Academy, Bucharest, Romania.

2013 – 2014 CCNA Routing and Switching, Crystal Mind, Association for Education and Information, Bucharest, Romania.

2011 - 2015 Bachelor's degree in "Computer Science", Faculty of Military Electronic and Information Systems, Military Technical Academy, Bucharest, Romania.

**Professional Experience**

2015 - Present *Teaching Assistant*, Faculty of Information Systems and Cyber Security, Department of Computers and Cyber Security, Military Technical Academy, Bucharest, Romania.  
Main teaching subjects: Architecture of Computer Systems and Programming Microprocessor Systems.

2017 - Present *Research engineer (doctoral researcher)* at the University POLITEHNICA of Bucharest (UPB), Faculty of Electronics, Telecommunications and Information Technology, Research Center for Spatial Information (CEOSpaceTech), Bucharest, Romania.

2015 – 2017 Software developer, Bento, Bucharest, Romania.

Most relevant projects:

✓ *xAI*, "Explainable Deep Learning for Earth Observation", grant of the Romanian Ministry of Education and Research, CNCS – UEFISCDI, 2021-2023, *Role: Key person*. The general objective of the project is to realize a new paradigm for cohesive and uniform EO information exploration and valorization based on the existing data of EO missions by developing self-learning, physics-aware, explainable AI methods for EO.

- ✓ *SI4Ro*, “Innovative service for monitoring the national infrastructure stability” grant of the Romanian Ministry of Education and Research, CNCS – UEFISCDI, 2020-2022, PN-III-P2-2.1-PTE-2019-0865 Contract no. 64PTE / 2020, *Role: key person* in performing interferometric processing on stacks of Sentinel-1 products by using a suite of applications, including snap2stamps project.
- ✓ *ATLAS*, “Avant-garde Technology Hub for Advanced Security” grant of the Romanian Ministry of Education and Research, CNCS – UEFISCDI, 2018-2021, PN-III-P1-1.2-PCCDI-2017-0272, *Role: key person* in the development of software modules integrated into a security management platform that enables a reputation-based Sensing-as-a-service platform for a fleet of IoT devices.

### **Conferences, Symposiums and Events:**

- ✓ IGARSS 2021; IEEE International Geoscience and Remote Sensing Symposium, “*Anomaly Detection in Post Fire Assessment*”, 11-16 July, 2021, Brussels, Belgium, virtual event.
- ✓ IGARSS 2020; IEEE International Geoscience and Remote Sensing Symposium, “*Physically Meaningful Dictionaries for EO Crowdsourcing: A ML for Blockchain Architecture*”, 26 September - 02 October, 2020, Waikoloa, HI, USA, virtual event.
- ✓ Φ-week 2019; “*No Feature Data Analytics: Compression Pattern Recognition*”, 9-13 Sept. 2019, Frascati, Italy.
- ✓ IGARSS 2018; IEEE International Geoscience and Remote Sensing Symposium, “*Normalized Compression Distance for SAR Image Change Detection*”, 22-27 July, 2018, Valencia, Spain.

### **Reviewing activity**

- IEEE journals (e.g., IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, IEEE Transactions on Geoscience and Remote Sensing).

### **Awards**

2015                      Contest "Linux Embedded Challenge", national stage, 1<sup>st</sup> prize, Freescale, Bucharest, Romania.