



Sergio Moreschini



11/06/1989



Italian



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WebPage



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Current Status

Doctoral Student: *Applications of MLOPS in the Cognitive Cloud Continuum*

2021 - Expected graduation time: 06.23

Researcher: *Extended Light Field representation for continuous parallax content @CIVIT*

2021 - present

Education

PhD.

DOCTORAL RESEARCHER ON COMMUNICATION AND INFORMATION TECHNOLOGIES

Tampere University (TAU), Finland - 2016 - Present

Master Degree

COMMUNICATION AND INFORMATION TECHNOLOGIES

Università degli Studi Roma Tre, Italy - 2013-2016 - [link to the thesis](#)
grade 110/110 cum Laude

Bachelor Degree

ELECTRONIC ENGINEERING

Università degli Studi Roma Tre, Italy - 2008-2012
grade 90/110

Selected Publications

- E. Belyaev, S. Moreschini, and A. Vinel, "Uncoordinated multi-user video streaming in VANETs using Skype," IEEE 22nd Int. Work. on Comp. Aided Mod. and Des. of Comm. Links and Net. (CAMAD), pp. 1-3, June 2017.
- S. Moreschini, G. Scrofani, R. Bregovic, G. Saavedra, and A. Gotchev, "Continuous Refocusing for Integral Microscopy with Fourier Plane Recording". Euro. Signal Process. Conf. (EUSIPCO), pp. 216-220, Sept. 2018.
- S. Moreschini, R. Bregovic and A. Gotchev, "Shearlet-based light field reconstruction of scenes with non-Lambertian properties". 8-th European Workshop on Visual Information Processing, (EUVIP), Oct. 2019.
- F. Lomio, D. M. Baselga, S. Moreschini, H. Huttunen and D. Taibi, "RARE: A Labeled Dataset for Cloud-Native Memory Anomalies". MaLTesQuE 2020.
- V. Lenarduzzi, F. Lomio, S. Moreschini, D. Taibi, and D. A. Tamburri. "Software Quality for AI: Where we are now?" SWQD2020.
- X. Li, S. Moreschini, Z. Zhang, and D. Taibi. "Exploring factors and measures to select open source software.", 2021.
- F. Lomio, S. Moreschini and V. Lenarduzzi, "Fault Prediction based on Software Metrics and SonarQube Rules. Machine or Deep Learning?", 2021
- N. Saarimaki, S. Moreschini, F. Lomio, R. Peñaloza, V. Lenarduzzi, "Towards a Robust Approach to Analyze Time-Dependent Data in Software Engineering", 2021
- X. Li, S. Moreschini, F. Pecorelli, D. Taibi, "OSSARA: Abandonment Risk Assessment for Embedded Open Source Components", 2022
- S. Moreschini, F. Lomio, D. Hästbacka, D. Taibi, "MLOps for evolvable AI intensive software systems" 2022
- F. Lomio, S. Moreschini, X. Li, V. Lenarduzzi, "Anomaly Detection in Cloud-Native Systems", 2022

Awards

Best poster award @ IEEE SPS Summer School 2018

<div>Experience</div> <div>#3DMediaGroup #CIVIT</div> <div>#ETN-FPI</div> <div>#SoftwareEngineering #CloudSea</div> <div>Training and courses</div>	<div>Researcher, 3D Media Group, Tampere University.</div> <div>Methods for capturing, processing and display 3D visual data. Related projects:</div> <div><div>- Capture: rig-mounted single/multi camera capture for LF content creation; 360-degree cameras capture, livestream and content creation.</div><div>- Analysis: Shearlet-based LF reconstruction of scenes with non-Lambertian properties, fusion of multi-camera-based LF.</div><div>- Visualization: LF visualization for multiview display; 360-degree camera reproduction on head mounted devices.</div><div>- Machine Learning: Volumetric segmentation for integral microscopy with Fourier plane recording.</div></div> <div>Research experience, CloudSea.ai, Tampere University.</div> <div>Application of ML-based analysis. Related projects:</div> <div><div>- Time-Series Analysis: Analysis of Time-Dependent data in SE.</div><div>- Software Quality: Fault prediction, Data-driven software engineering: Open Source Assessment and Overview of the data-driven process.</div><div>- Network Analysis: Smart allocation of computation on EDGE devices.</div><div>- MLOps: Applications of MLOps</div></div> <div>Trainings and courses:</div> <div><div>- Training school on 3D displays and the human visual system;</div><div>- Training school on optical foundations of full-parallax imaging;</div><div>- Workshop on multi-camera image processing for media production;</div><div>- 3D and Virtual Reality;</div><div>- Advanced Image Processing (Teaching Assistant);</div><div>- Computer vision: 3D scene reconstruction;</div><div>- Training school on plenoptic sensing;</div><div>- Signal compression;</div><div>- Workshop on visual data capture;</div><div>- Training school on LF data representation, interpretation and compression;</div><div>- Workshop in Media Production;</div><div>- Training school on researcher development.</div></div>																																
<div>Interests</div>	<table><tr><th>Software</th><th>Fields of Interest</th><th colspan="2">Languages</th></tr><tr><td>MATLAB</td><td>Plenoptic</td><td>Italian</td><td>Native</td></tr><tr><td>Python</td><td>Frame Theory</td><td>English</td><td>Full working proficiency</td></tr><tr><td>Pytorch</td><td>Light Field</td><td>Spanish</td><td>Limited working proficiency</td></tr><tr><td>Tensorflow</td><td>DevOps</td><td>French</td><td>Elementary proficiency</td></tr><tr><td>Linux</td><td>Machine Learning</td><td></td><td></td></tr><tr><td>Blender</td><td>MLOps</td><td></td><td></td></tr><tr><td>OFFICE</td><td>Software Quality</td><td></td><td></td></tr></table>	Software	Fields of Interest	Languages		MATLAB	Plenoptic	Italian	Native	Python	Frame Theory	English	Full working proficiency	Pytorch	Light Field	Spanish	Limited working proficiency	Tensorflow	DevOps	French	Elementary proficiency	Linux	Machine Learning			Blender	MLOps			OFFICE	Software Quality		
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<div>Reference</div>	<div>Prof. Davide Taibi</div> <div>davide.taibi@tuni.fi</div> <div>Group Leader "CloudSea.AI"</div> <div>Tampere University, Finland</div>																																