



# DANIELE SALVATI

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## WORK EXPERIENCE

Assistant Professor, University of Udine, from 1/9/2020  
Research Fellow, University of Udine, 1/5/2015 - 31/5/2020  
Visiting Researcher, Sapienza University of Rome, 1/6/2014 - 30/4/2015  
Consultant, start-up Stretch Tech (New York, USA), field of music technologies, 1/4/2013 - 30/11/2013  
Research Fellow, University of Udine, 1/4/2012 - 31/3/2013  
Ph. D., University of Udine, 1/1/2009 - 31/12/2011,  
System Engineer, OWS SRL, Blu SPA, Serco SPA, Consob, Plancton SRL, Techub SPA, 1/1/2001 - 31/10/2008

## EDUCATION

Ph.D. in Multimedia Communication, University of Udine, 23/4/2012  
Master's Degree in Sound Engineering, University of Rome Tor Vergata, 19/12/2006  
Degree in Environmental Engineering, Sapienza University of Rome, 24/3/2003

## INSTITUTIONAL ROLES

Member of the Faculty of the Ph.D. Program in Computer Science and Artificial Intelligence. Member of committees: *paritetica docenti-studenti DMIF*, *web dipartimentale DMIF*, *accesso alla laurea magistrale CMTI*, *coordinamento esami di profitto ed esami di laurea STM-CMTI*.

## PROFESSIONAL AND EDITORIAL ROLES

IEEE Senior Member  
Associate Editor di IEEE/ACM Transactions on Audio, Speech, and Language Processing  
Handling Editor di Elsevier Signal Processing  
Affiliate Member di IEEE Audio and Acoustic Signal Processing Technical Committee

## RESEARCH ACTIVITIES

My scientific work focuses on the study of sound information representation, management, and processing. Specifically, my research interest lies in Audio and Acoustic Signal Processing and Computer Audition. The goal of my research is to develop models and techniques for audio processing and multichannel processing of acoustic signals acquired by arrays of microphones for sound source localization in noisy and reverberant environments, noise reduction and source separation, audio recognition using artificial intelligence systems, source tracking, and automatic sensor configuration.

## SCIENTIFIC PUBLICATIONS

I have published 17 articles in international journals and 25 articles in conference proceedings in the fields of acoustic source localization, acoustic source tracking, microphone array on drone, signal enhancement beamforming, deep learning methods for acoustic array processing, simultaneous localization and mapping of sources and sensors, binaural hearing, acoustic event detection and classification, speaker identification, and human-machine audio interfaces.

## EDITORIAL ACTIVITIES

Academic Editor of Complexity (2021-2023), Managing Guest Editor for the Special Issue "Deep Learning for Acoustic Sensor Array Processing" on Elsevier Pattern Recognition Letters (2022-2023), and Guest Editor for the Special Issue "Applications of Audio and Acoustic Signal" on MDPI Electronics (2021-2022).

## REVIEWING ACTIVITIES

I regularly carry out scientific review activities for international journals published by IEEE, ASA, Elsevier, Springer Nature, MDPI, Taylor & Francis Group.

I authorize the processing of my personal data in accordance with art. 13 D. Lgs. 30 giugno 2003 n°196 – "Codice in materia di protezione dei dati personali" e dell'art. 13 GDPR 679/16 – "Regolamento europeo sulla protezione dei dati personali".