DANIELE SALVATI

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WORK EXPERIENCE

Associate Professor, University of Udine, from 03/11/2024
Assistant Professor, University of Udine, 01/09/2020 - 02/11/2024
Research Fellow, University of Udine, 1/5/2015 - 31/05/2020
Visiting Researcher, Sapienza University of Rome, 01/06/2014 - 30/04/2015
Consultant, start-up Stretch Tech (New York, USA), field of music technologies, 01/04/2013 - 30/11/2013
Research Fellow, University of Udine, 01/04/2012 - 31/03/2013
Ph. D., University of Udine, 1/1/2009 - 31/12/2011
System Engineer, OWS SRL, Blu SPA, Serco SPA, Consob, Plancton SRL, Techub SPA, 2001 - 2008

EDUCATION

Ph.D. in Multimedia Communication, University of Udine, 23/04/2012
Master's Degree in Sound Engineering, Tor Vergata University of Rome, 19/12/2006
Degree in Environmental Engineering, Sapienza University of Rome, 24/3/2003

INSTITUTIONAL ROLES

Member of the Ph.D. program faculty 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, piani di studio e pratiche studenti STM.*

PROFESSIONAL AND EDITORIAL ROLES

IEEE Senior Member
Associate Editor of IEEE/ACM Transactions on Audio, Speech, and Language Processing
Handling Editor of Elsevier Signal Processing
Affiliate Member of 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), Guest Editor for the Special Issue " Pattern Recognition in Multimodal Information Analysis: Observation, Extraction, Classification, and Interpretation" on Elsevier Pattern Recognition Letters (2024-2025), 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.

4 November 2024