DANIELE SALVATI

Associate Professor, IINF-05/A - Information Processing Systems
Department of Mathematics, Computer Science and Physics - University of Udine
Via delle Scienze 206, 33100 Udine

☎ +390432558459 A2 81 daniele.salvati@uniud.it https://users.dimi.uniud.it/~daniele.salvati/

ACADEMIC AND PROFESSIONAL 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 AFFILIATIONS

IEEE Senior Member
Affiliate Member of IEEE Audio and Acoustic Signal Processing Technical Committee
Member of European Association for Signal Processing

RESEARCH INTERESTS

My research focuses on the representation, analysis, and processing of sound information. Specifically, I am interested in Audio and Acoustic Signal Processing and Computer Audition. My primary goal is to develop models and techniques for multichannel analysis and processing of acoustic signals captured by microphone arrays. This includes acoustic source localization in noisy and reverberant environments, noise reduction, source separation, audio recognition using artificial intelligence, source tracking, and automatic sensor configuration.

PUBLICATIONS

I have published 18 articles in international journals and 25 articles in conference proceedings in the fields of acoustic source localization and tracking, microphone arrays on drones, signal enhancement through 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 AND REVIEWING ACTIVITIES

Associate Editor of IEEE/ACM Transactions on Audio, Speech, and Language Processing (from 2022), Handling Editor of Elsevier Signal Processing (from 2022), 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), Guest Editor for the Special Issue "Applications of Audio and Acoustic Signal" on MDPI Electronics (2021-2022). Reviewer for international journals published by IEEE, Elsevier, Springer Nature.

1 March 2025