

Curriculum Vitae: Yannis Stylianou

CURRICULUM VITAE

PERSONAL INFORMATION	Yannis Stylianou , Professor, IEEE Fellow, ISCA Fellow	
	University of Crete	Apple
	Computer Science Dept.	90 Hills Rd
	Voutes Campus	CB2 1PG Cambridge UK
	GR-70013 Heraklion, Crete, Greece	
Phone	(+30) 2810 393 559	(+44) 7583 063748
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Email	yannis@csd.uoc.gr	
Site Web	http://www.csd.uoc.gr/people-all/Professors/stylianou.html	istylianou@apple.com
Nationality	Hellenic	
Date of birth	11.29.1966	

WORK EXPERIENCE

2010-	Professor, University of Crete, Computer Science Dept., Greece
2019-	Manager of Research, Apple, Cambridge UK
2018- 2019	Senior Research Scientist, Apple, Cambridge UK
2013-2018	Group Leader, Speech Research Group, Toshiba Cambridge Research Lab, Cambridge, UK
2017-	Visiting Professor, Imperial College, Electrical Engineering Dept. London UK
2011- 2012	Visiting Professor, University of the Basque Country, Bilbao, Spain
2002-2010	Associate Professor, University of Crete, Computer Science Dept., Greece
2003-2012	Visiting Researcher, Institute of Computer Science, FORTH, Greece
2000- 2002	Technical Staff Member, Bell-Laboratories, Murray Hill, NJ, USA Language Modeling Research Lab
1996-2000	Senior Technical Staff Member, AT&T-Laboratories, Florham Park, NJ, USA Speech Processing Lab.
1995-1996	Assistant Professor, Ecole Superieure des Ingenieurs en Electronique et Electrotechnique – ESIEE Paris, France

EDUCATION AND TRAINING

1992-1995	PhD, Ecole Nationale Superieure des Telecommunications
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Curriculum Vitae: Yannis Stylianou

Departement Signal, ENST-Telecom Paris, France
*Harmonic plus Noise Models for Speech , Combined with Statistical Methods
for Speech and Speaker Modification*
Scholarship: French Ministry of Education and France Telecom

1991-1992 Master of Science in Signal Processing
Departement Signal, ENST-Telecom Paris, France
Scholarship: ENST-Telecom Paris

1986- 1991 Diploma of Electrical Engineering, National Technical University of Athens.
Scholarship: Maliotis Foundation

MAIN RESEARCH CONTRIBUTION

- HNM: Harmonic plus Noise Model
- Voice Conversion using GMM.
- The Next-Gen TTS system of AT&T
- aQHM: Adaptive Quasi Harmonic Model
- SSDRC: Spectral Shaping and Dynamic Range Compression

COMMITTEES

2007-2010 IEEE Speech and Language Technical Committee
2017-2020

2009-2013 Elected Member of the Board of the International Speech Communication Association - ISCA

2009- IEEE Multimedia Communications Technical Committee

2007-2011 Vice-Chairman, Management Committee of Action 2103: Advanced Voice Function Assessment

2005-2006 Member of the Management Committee of Action 277: Nonlinear Speech Processing

EDITORIAL

2022- Associate Editor, JASA

2014-15 Lead Guest Editor
Speech Communication, Special Issue on *Importance of Phase in Speech Communication*

2012 Guest Editor

Curriculum Vitae: Yannis Stylianou

- Computer Speech and Language, Special Issue on 'The Listening Talker'
- 2010 Guest Editor
Speech Communication Special Issue on Advanced Voice Function Assessment
- 2009 Lead Guest Editor
IEEE Trans. On Speech Audio and Language Processing, Special Issue on Voice Transformation
- 2011-2013 Associate Editor, Elsevier Journal Digital Signal Processing
- 2008- Editorial Board, Journal of Electrical and Computer Engineering
Hindawi, <http://www.hindawi.com/journals/jece/>
- 2007- Co-Editor, Progress in Nonlinear Speech Processing
Springer, ISBN 3540715037, May 3 2007
- 2005-2021 Associate Editor, EURASIP Journal on Speech and Audio Processing
- 2007-2021 Associate Editor, EURASIP Research Letters in Signal Processing
- 1999-2002 Associate Editor, IEEE Signal Processing Letters
- 1995- Regular reviewer in Journals:
- IEEE Trans. On Speech and Audio Processing
 - IEEE Signal Processing Letters
 - Journal of the Acoustical Society of America, JASA
 - Elsevier, Speech Communication Magazine
- 1995- Regular reviewer for international conferences:
- IEEE ICASSP
 - ISCA Eurospeech/Interspeech
 - Eusipco
 - IEEE Workshop on Applications of Signal Processing to Audio and Acoustics

PROJECTS

- 2006-2009 France Telecom , R&D Department, Lannion, France
Basic Research on Speech Analysis
Contract No: 46135648
175kE
- 2007-2009 Dept of Defense, Air Force, USA
Voice Transformation and Detection
AF071-087,
Phase I: 75 kUSD
Phase II: 600 kUSD
- 2003-2007 E.U. IST, Network of Excellence: SIMILAR
150kE (partner's part)

Curriculum Vitae: Yannis Stylianou

2006-2008	Greek Ministry of Development, GSRT: TV++, Multimedia Indexing Systems 65 kE (partner's part)
2006-2008	Greek Ministry of Development, GSRT: AKMON: Analysis of Voice Pathology 150 kE
2006-2010	E.U. ESF, COST OFFICE: VOICE: Advanced Voice Function Assessment > 450kE
2010	Latsis Foundation: Automatic detection of murmurs in Children Phonocardiographic signals 12 kE
2010-2013	EE – FP7 FET-OPEN: LISTA: The Listening Talker: 585 kE (partner's part)
2010-2011	France Telecom , R&D Department, Lannion, France Basic Research on Speech Analysis Contract No: 50012310-A09141 40kE
2010-2013	France Telecom , R&D Department, Lannion, France Basic Research on Speech Analysis Contract No: 30kE
2012-2015	Greek Ministry of Education, THALES Program: <i>ERASITECHNIS Processing, Analysis, Synthesis and Context-Based Retrieval for Multimedia Music-Related Data Bases of Traditional Music and Dancing Recordings</i> 150 kE (partner's part)
2015-2017	Toshiba Cambridge Research Lab, Cambridge UK Contracts for basic research on speech and signal processing
2016-2020	Horizon2020, Marie Skodowska-Curie European Training Network, ENRICH : Enriched communication across the lifespan 485kE (partner's part)

CONFERENCE/SCHOOLS- SPECIAL SESSIONS ORGANIZATION

2023	Co-chair of IEEE SPS Short Courses at ICASSP23
2018	General Chair, IEEE Workshop on Speech Language Technology, SLT2018, Athens, Greece, Dec 18-21, 2018
2018	Tutorial Committee, Interspeech 2018
2017	Co-organizer,

Curriculum Vitae: Yannis Stylianou

- Special Session on: Bird Audio Signal Processing
EUSIPCO 2017, Kos, Greece, 28 Aug - 2 Sept 2017
- 2016 Co-organizer,
Bird Audio Detection, Challenge
- 2015-18 Chairman and Organizer
Summer School, **Advances in Speech Synthesis**, last week of Julys, University of Crete,
Heraklion Crete
- 2014 Chairman and Organizer
1st ISCA Summer School, Speech Processing Courses in Crete, 04/08-08/08, 2014 Heraklion
Crete
- 2014 Co-Chairman and Co-organizer
Special Session on: Phase Importance in Speech Processing Applications,
Interspeech 2014 14-18 Sept. 2014 Singapore
- 2012 Co-Organizer
Listening Talker (LISTA) Workshop
2-3 May 2012, Edinburgh, UK
- 2012-13 Co-Organizer
The Hurricane Challenge I (2012) & II (2013)
- 2012 Co-chairman and Co-organizer
1st IEEE SPS Winter School on Speech and Audio Processing for Immersive Environments and
Future Interfaces, Jan 16-20, 2012 Heraklion Crete
- 2007 Chairman and Organizer
1st Workshop on Advanced Voice Quality Assessment, 27/04-29/04, 2007 Heraklion Crete
- 2007 Co-Chairman and Co-organizer
Special Session on: Objective assessment of voice and speech quality,
Interspeech 27-31 Aug. 2007 Antwerp, Belgium
- 2009 Chairman and Organizer
Special Session on: Voice Conversion,
IEEE ICASSP09, April 19-24, 2009, Taipei, Taiwan
- 2009 Co-Organizer
Thematic Symposium: Immersive Communication
IEEE ICASSP09, April 19-24, 2009, Taipei, Taiwan
- 2009-2017 Area Chair/Coordinator:
1. Automatic Speech/Speaker Characterization and Modification
Interspeech 2009, Brighton, UK
2. Speech & Spoken Language Generation - Speech Synthesis,
Interspeech 2011, Florence, Italy
3. Speech Perception and Synthesis,
Interspeech 2012, Portland Oregon
4. EUSIPCO 2015, 2017-2018

Curriculum Vitae: Yannis Stylianou

- 2002- Session Chair in:
IEEE ICASSP 2002, 2008-2016 (1 or 2 sessions),
Interspeech 2007, 2009-19 (1 or 2 sessions)
- 2005 Chairman and Organizer
Workshop on Nonlinear Speech Processing, WNSP05, 20/09-23/09, Heraklion Crete

SPECIAL ISSUES

- 2009 Lead Guest Editor
IEEE Trans. On Speech Audio and Language Processing, Special Issue on *Voice Transformation*
- 2010 Guest Editor
Speech Communication, Special Issue on *Advanced Voice Function Assessment*
- 2012 Guest Editor
Computer Speech and Language, Special Issue on the *Listening Talker*
- 2014-15 Lead Guest Editor
Speech Communication, Special Issue on *Importance of Phase in Speech Communication*

INVITED TUTORIALS/CHAPTERS

- 2000 Invited Speaker/Tutorial: Signal Processing for Speech Synthesis,
COST 258: The naturalness of synthetic speech, 23-24 Nov. 2000 , Maastricht,
Netherlands
- 2005 Chapter: Text-To-Speech Synthesis,
The Oxford Handbook of Computational Linguistics, Chapter 17, p.323-338,
Oxford University Press
Editor R. Mitkov
- 2012 Chapter: Text-To-Speech Synthesis, 2nd Edition
The Oxford Handbook of Computational Linguistics, Chapter 17, p.323-338,
Oxford University Press
Editor R. Mitkov
- 2018 Chapter: Text-To-Speech Synthesis, 3rd Edition
The Oxford Handbook of Computational Linguistics, Chapter 34,
Oxford University Press
Editor R. Mitkov
- 2005 Chapter: Modeling Speech based on Harmonic plus Noise Models,
Nonlinear Speech Modeling and Applications, Springer-Verlag. 2005, pp 244-260
Eds. G. Chellot, A. Esposito, M. Faundez, M, Marinaro.
- 2007 Tutorial: Voice Transformation,
Interspeech 27-31 Aug. 2007 Antwerp, Belgium

Curriculum Vitae: Yannis Stylianou

- 2007 Invited Speaker/Tutorial: Voice Conversion,
Faculty of Computer Science, Techn. Univ. of Graz, Austria, 26/09/2007
- 2008 Chapter: Voice Transformation,
Springer Handbook of Speech Processing and Speech Communications,
editors-in-chief: Jacob Benesty, Yiteng (Arden) Huang and M. Mohan Sondhi ,
pp. 489-503,
Springer, ISBN 978-3-540-49125-5.
- 2008 Invited Speaker/Tutorial: Speech Modeling and Modifications,
(23 hours) for Master programme in Telecommunications, University of the Basque
Country, July 2008, Bilbao, Spain
- 2008 Invited Speaker/Tutorial: Voice Transformation,
VJTH 2008, 12-14 Nov. 2008, Bilbao, Spain
- 2010 Invited Speaker/Tutorial: Speech Modifications,
7th Language and Technology Conference, Ljubljana, Slovenia
- 2011 Invited Speaker/Tutorial: Advances in Speech Signal Processing for Voice Quality
Assessment,
(5 hours) for the Master programme in Telecommunications, University of the Basque
Country, 29-30 Sept 2011, Bilbao, Spain
- 2011 Invited Speaker: Speech Modifications: State of the art and Perspectives,
IYTE April. 2011, Izmir, Turkey
- 2011 Invited Speaker/Tutorial : Marine Mammals Acoustics with Emphasis on Sperm Whales:
Signal Processing Algorithms,
(3 hours) for the Master programme in Telecommunications, University of the Basque
Country, Nov. 2011, Bilbao, Spain
- 2012 Invited Speaker: Advances in Speech Signal Processing for Voice Quality Assessment,
Polytechnical University of Madrid, April. 2012, Madrid, Spain
- 2012 Tutorial: From Stationary to Adaptive Sinusoidal Modeling of Speech with Applications to
Speech Technologies and Voice Function Assessment,
Interspeech 09-13 Sept. 2012 Portland, Oregon, USA
- 2013 Invited Speaker: Speech Processing and Medical Applications,
Non-Linear Speech Processing (NOLISP) June 19-21 2013, Mons, Belgium.
- 2013 Invited Speaker: Speech in Noise Intelligibility based on Spectral Shaping and Dynamic
Range Compression,
Speech in Noise, SPiN, January 10-11 2013, Vitoria, Spain.
- 2015 Invited Speaker: Adaptive Sinusoidal Models and their applications in speech processing,
3rd Greek Signal Processing Jam, in Honour of Prof. George Carayannis, January 19,
2015, Athens, Greece.

Curriculum Vitae: Yannis Stylianou

- 2016 Invited Speaker: Voice Quality Assessment,
Workshop on Image and Speech Processing 2016,
IIIT Hyderabad, Dec 24 2016
- 2016 GIAN, Invited Speaker: Advanced Sinusoidal Modeling and Applications,
Global Initiatives of Academic Network (GIAN)
Winter School 2016, 6 lectures and 3 labs
IIT Guwahati, Dec 26-30 2016,

SUPERVISOR OF PHD THESES

- 2004-2007 Yannis Agiomyrgiannakis, (now with Google Research, London, UK)
Sinusoidal Coding of Speech for Voice over IP
- 2005-2011 Maria Markaki, (now Research Associate, University of Crete, Greece)
Modulation Spectra and their application on Speech Processing
- 2006-2010 Yannis Pantazis, (now Researcher at FORTH, Greece)
Decomposition of AM-FM signals with Applications in Speech Signal Processing
(with Olivier Rosec, FT Orange Labs, France)
- 2006-2010 Andre Holzapfel, (now Assistant Professor, KTH, Sweden)
Similarity Methods for Computational Ethnomusicology.
- 2010-2014 George Kafentzis (now Research Associate, Univ. of Crete, Greece),
Speech Modifications in a Quasi-Harmonic Environment.
(with Olivier Rosec, FT Orange Labs, France, and Olivier Boeffard, Univ. de Rennes I, France)
- 2011-2015 Maria Koutsoyannaki, (now with BCBL San Sebastian, Spain)
Active Speech Modifications
- 2017-2022 Mohammed Shifas PV,
Speech intelligibility and listening effort in noisy conditions
- 2018- Dipjyoti Paul
Sequence to sequence modeling for speech modifications
- 2021- Eirini Sisamaki
Sequence to sequence modeling for speech synthesis
- 2022- Michalis Raptakis
Robust modeling of speech using explicit and implicit representations

POST DOCTORAL RESEARCH FELLOWS

- 2012-2015 Maria Markaki
Speech decompositions and Vibrato Analysis

Curriculum Vitae: Yannis Stylianou

- 2012-2013 Elizabeth Godoy,
Signal Representations and Lombard Effect
- 2011- Vassilios Tsiaras,
Machine Learning
- 2011-2013 Gilles Degottex
Speech Modifications and Inverse Filtering
- 2010-2011 Chang Heon Lee
Speech Coding for TTS (with Olivier Rosec, FT Orange Labs, France)
- 2010-2013 Yannis Pantazis
2020- *Mathematical Modeling of Speech Signals*
- 2015- George Kafentzis
Adaptive Sinusoidal Models in Speech Technologies

IN PHD THESES COMMITTEE (THE MOST RECENT)

- 2016 Paul Magron
Reconstruction de phase par modèles de signaux : application à la séparation de sources audio
Telecom Paris-Tech (Examiner)
- Maryam Al Dabel
Intelligibility model optimisation approaches for speech pre-enhancement
The University of Sheffield (Examiner)
- 2015 Sidsel Marie Noerholm,
Enhancement of Speech Signals – with a Focus on Voiced Speech Models
Aalborg University, Denmark (Examiner and Opponent)
- Thi Thu Trang Nguyen,
HNM-based Vietnamese Text-to-Speech: Prosodic Phrasing Modeling, Corpus Design, System Design and Evaluation
University de Paris-Sud, France (Examiner and Opponent)
- Stefan Huber,
Voice Conversion by modelling and transformation of extended voice characteristics
University Paris VI, France (Examiner and Opponent)
- 2012 Tuomo Raitio,
Voice Source Modeling Techniques for Statistical Parametric Speech Synthesis, Aalto University, Finland (Examiner)
- Laura Laaksonen,

Curriculum Vitae: Yannis Stylianou

Artificial bandwidth extension of narrowband speech – enhanced speech quality and intelligibility in mobile devices, Aalto University, Finland (Examiner)

Christian Fischer Pedersen,
Z-transform Zeros in Mixed Phase Deconvolution of Speech, Aalborg University, Denmark (Examiner and Opponent)

PATENTS

26. Petko Petkov, Norbert Braunschweiler and Yannis Stylianou:
Automated Pause Insertion for Enhanced Intelligibility in Reverberant Environments
U.K. Patent # PG446745GB, Filed June 17th 2016.
25. Petko Petkov and Yannis Stylianou:
Generalized Steady State Suppression for Enhanced Intelligibility in Reverberant
U.K. Patent #PX214773GB, Filed April 4th 2016.
24. Kayoko Yanagisawa, Ranniery Maia and Yannis Stylianou:
Multi-Stream Spectral Representation for Statistical Parametric Speech Synthesis
U.K. Patent #1604334.1, Filed March 14th 2016.
23. Petko Petkov and Yannis Stylianou:
A speech processing system and speech processing method
U.K. Patent # PN816616GB, 1507486.7, Filed April 30th 2015.
22. V. Tsiaras, Y. Stylianou, R. Maia, V. Digalakis, V. Diakouloukas:
Linear second order task-dynamics for state evolution in linear dynamic models
U.K. Patent # PN817594GB, 1507422.2, Filed April 30th 2015.
21. V. Tsiaras, Y. Stylianou, R. Maia, V. Digalakis, V. Diakouloukas:
Speech synthesis using linear dynamical modelling with global variance
U.K. Patent # PN817613GB, 1507420.6, Filed April 30th 2015.
20. Z.Wang, Y. Stylianou:
Device and method for a spoken dialogue system
U.K. Patent # PN817592GB, 1507403.2, Filed April 30th 2015.
19. M. Koutsogiannaki, Y. Stylianou and P. Petkov:
A speech processing system and method
U.K. Patent # PN817595GB, 1507488.3, Filed April 30th 2015.
18. T. Catalin Zorila and Y. Stylianou:
A speech processing system and a speech processing method
U.K. Patent # PN812632GB, 1505363.0, Filed March 27th 2015.
17. A. Griffin, Y. Stylianou and T.C. Zorila:
A speech processing device
U.K. Patent # PN812632GB, 1505361.4, Filed March 27th 2015.
16. Thomas Drugman and Yannis Stylianou:

Curriculum Vitae: Yannis Stylianou

Spectral Envelope Estimation

U.K. Patent # PN813876GB, Filed May 19th 2014.

15. Yannis Stylianou:

A speech processing system

U.K. Patent # PN812633GB, Filed April 25th 2014.

14. J. Latorre, V. Wan, B. Kolluru, Y. Stylianou:

Factorized Voice Conversion

U.K. Patent # PN811815GB, Filed March 24 2014.

13. B. Kolluru, V. Wan, B. Stenger, R. Cipolla, J. Latorre, L. Chen, R. Maia, K. Yanagisawa, N. Braunschweiler, Y. Stylianou, A. Blokland:

A computer generated emulation of a subject

U.K. Patent # GB2517212, Published February 18 2015.

12. J. Latorre, V. Wan, B. Kolluru, Y. Stylianou, A. Blokland, N. Braunschweiler, K. Yanagisawa, L. Chen, R. Maia, N. Baker, R. Anderson, B. Stenger, R. Cipolla:

Synthetic Audiovisual Storyteller

U.K. Patent # GB2516965, Published February 11 2015.

11. Yannis Stylianou:

A real-time noise dependent speech intelligibility booster

U.K. Patent # 1319694.4, Filed Nov 7th 2013.

10. Yannis Stylianou and Alex Kain:

Stochastic Modeling Of Spectral Adjustment For High Quality Pitch Modification

U.S. Patent # 7478039, January 13th, 2009.

9. Yannis Stylianou and Alex Kain:

Stochastic Modeling Of Spectral Adjustment For High Quality Pitch Modification

U.S. Patent # 6910007, June 21st, 2005.

8. Yannis Stylianou, David Kapilow and Juergen Schroeter:

Automatic detection of non-stationarity in speech signals.

U.S. Patent # 6535843, March 18th, 2003.

7. Yannis Stylianou:

Simple and Fast Way for Generating a Harmonic Signal.

U.S. Patent # 6466903, Oct. 15th 2002.

6. Yannis Stylianou:

Voice Quality Compensation System for Speech Synthesis Based on Unit-Selection Speech Database.

U.S. Patent # 6266638, July 24th 2001.

5. Yannis Stylianou, David Kapilow and Juergen Schroeter:

Signal Dependent Speech Modifications.

U.S. Patent # 6324501, Nov. 27th 2001.

4. M.C. Beutnagel, D.A. Kapilow, Y. Stylianou, A.K. Syrdal:

Employing speech models in concatenative speech synthesis.

U.S. Patent # 6950798, Sep. 27th 2005.

3. Yannis Stylianou:

Center of Gravity in Processing of Speech Signals.

U.S. Patent Append, Filed Nov. 27th 1998.

Curriculum Vitae: Yannis Stylianou

2. Yannis Stylianou:

Speech Frame Synchronization Using Differentiated Phase.

U.S. Patent Append, Filed January 10th 1999.

1. Yannis Stylianou:

A first lag correlative spectrum function for the synchronization of speech frames.

U.S. Patent Append, Filed July 28th 1999.

PUBLICATIONS

CHAPTERS

9. Thierry Dutoit and Yannis Stylianou:
Text-to-Speech Synthesis, 3rd Edition
Invited Chapter in The Oxford Handbook of Computational Linguistics, Editor R. Mitkov, Oxford University Press, 2018 to appear, Chapter 34.
8. Thierry Dutoit and Yannis Stylianou:
Text-to-Speech Synthesis, 2nd Edition
Invited Chapter in The Oxford Handbook of Computational Linguistics, Editor R. Mitkov, Oxford University Press, 2012, Chapter 17.
7. Thierry Dutoit, Varvara Kandia and Yannis Stylianou:
How can marine biologists track sperm whales in the oceans?
Chapter in Applied Signal Processing: A MATLAB-Based Proof of Concept,
Thierry Dutoit and Ferran Marques,
Springer; 1st edition (May 15, 2009), ISBN: 0387745343
6. Yannis Stylianou:
Voice Transformation
Invited Chapter in:
Springer Handbook of Speech Processing and Speech Communications, pp. 489-503, editors-in-chief: Jacob Benesty, Yiteng (Arden) Huang and M. Mohan Sondhi
Springer, ISBN 978-3-540-49125-5, 2008.
5. Yannis Pantazis and Yannis Stylianou:
On the Detection of Discontinuities in Concatenative Speech Synthesis
Springer Lecture Notes in Computer Sciences: Progress in Non Linear Speech Processing ,
Volume Editors: Yannis Stylianou, Marcos Faundez Zanuy and Anna Esposito,
Springer, ISBN 3540715037, May 3 2007
4. Maria Markaki and Yannis Stylianou:
Extraction of Speech-relevant Information from Modulation Spectrograms
Springer Lecture Notes in Computer Science: Progress in Non Linear Speech Processing,
Volume Editors: Yannis Stylianou, Marcos Faundez Zanuy and Anna Esposito,
Springer, ISBN 3540715037, May 3 2007
3. Yannis Stylianou:
Modeling Speech based on Harmonic plus Noise Models.
Invited Chapter in *Nonlinear Speech Modeling and Applications*, Springer-Verlag. 2005, pp 244-260
Eds. G. Chellot, A. Esposito, M. Faundez, M, Marinaro.

2. Yannis Pantazis and Yannis Stylianou:
Non linear approaches to the detection of discontinuities in concatenative speech synthesis
Chapter in *Nonlinear Speech Modeling and Applications*, Springer-Verlag, 2005, pp. 375-383
Eds. G. Chellot, A. Esposito, M. Faundez, M, Marinaro.
1. Thierry Dutoit and Yannis Stylianou :
Text-to-Speech Synthesis.
Invited Chapter in The Oxford Handbook of Computational Linguistics, Editor R. Mitkov, Oxford University Press, 2003, Chapter 17, p.323-338.

JOURNALS

39. D. Stowell, M. D. Wood, H. Pamula, Y. Stylianou and H. Glotin
Automatic acoustic detection of birds through deep learning: The first Bird Audio Detection challenge
British Ecological Society, *Methods in Ecology and Evolution*, DOI: 10.1111/2041-210X.13103, 2019, Vol. 10, pp. 368-380
38. B. Bozkurt, I. Germanakis and Y. Stylianou
A study of time-frequency features for CNN-based automatic heart sound classification for pathology detection
Elsevier, *Computers in Biology and Medicine*, Vol100, Sept 1, 2018, pp. 132-143
37. S. Flanagan, T.C. Zorilă, Y. Stylianou, B.C.J. Moore
Speech processing to improve the perception of speech in background noise for children with auditory processing disorder and typically developing peers, *Trends in Hearing*, vol. 22, pp. 1-8, 2018
36. P. Petkov and Y. Stylianou
Adaptive Gain Control for Enhanced Speech Intelligibility under Reverberation
IEEE Signal Processing Letters, Vol 23(10), Oct 2016, pp. 1434-1438
35. T. C. Zorila, Y. Stylianou, S. Flanagan and B.C.J. Moore
Evaluation of Near-End Speech Enhancement under Equal-Loudness Constraint for Listeners with Normal-Hearing and Mild-to-Moderate Hearing-Loss
The Journal of the Acoustical Society of America, Vol 141(1), Jan 2017 (online)
34. V. Tsiaras, R. Maia, V. Diakouloukas, Y. Stylianou and V. Digalakis
Global Variance in Speech Synthesis with Linear Dynamical Models
IEEE Signal Processing Letters, Vol 23(8), Aug 2016, pp. 1057-1061

33. P. Mowlae, R. Saeidi and Y. Stylianou
Advances in phase-aware signal processing in speech communication
Elsevier Speech Communication, Special Issue: Phase-aware signal processing in Speech Communication, Volume 81, July 2016, pp 1-29
32. T.C. Zorila, Y. Stylianou, T. Ishihara and M. Akamine
Near and far field speech-in-noise intelligibility improvements based on a time-frequency energy reallocation approach
IEEE/ACM, Trans. On Audio, Speech and Language Processing, Vol24(10), Oct2016, pp.1808-1818
31. M. Caetano, G.P. Kafentzis, A. Mouchtaris and Y. Stylianou
Full-Band Quasi-Harmonic Analysis and Synthesis of Musical Instrument Sounds with Adaptive Sinusoids
Applied Sciences, 6(5), 127, May 2016
30. T. C. Zorila, Y. Stylianou, S. Flanagan and B.C.J. Moore
Effectiveness of a loudness model for time-varying sounds in equating the loudness of sentences subjected to different forms of signal processing
The Journal of the Acoustical Society of America, Vol 140(1), July 2016, pp. 1057-1061
29. T. Drugman, Y. Stylianou, Y. Kida and M. Akamine
Voice Activity Detection: Merging Source and Filter-based Information
IEEE Signal Processing Letters, vol.22, Issue 2, pp. 252-256, Feb 2016
28. T. Drugman, and Y. Stylianou
Maximum Voiced Frequency Estimation: Exploiting Amplitude and Phase Spectra
IEEE Signal Processing Letters, vol.21, Issue 10, pp. 1230-1234, 2014
27. T. Drugman, and Y. Stylianou
Fast Inter-Harmonic Reconstruction for Spectral Envelope Estimation in High Pitch Voices
IEEE Signal Processing Letters, vol.21, Issue 11, pp. 1418-1422, 2014
26. D. Erro, T.C. Zorila, and Y. Stylianou
Enhancing the Intelligibility of Statistically Generated Synthetic Speech by means of Noise-Independent Modifications
IEEE Trans. on Audio, Speech and Language Processing, Vol.22, pp 2101-2111, 2014.
25. E. Godoy, M. Koutsogiannaki, and Y. Stylianou
Approaching Speech Intelligibility Enhancement with Inspiration from Lombard and Clear Speaking Styles
Computer Speech and Language, Vol. 28 (2), March 2014, pp 629-647.
24. M. Cooke, Catherine Mayo, Cassia Valentini-Botinhao, Yannis Stylianou, Bastian Sauert, and Yan Tang:

Evaluating the intelligibility benefit of speech modifications in known noise conditions

Speech Communication, Vol. 55(4), May 2013, pp 572-585.

23. Gilles Degottex and Yannis Stylianou:
Analysis and Synthesis of Speech using an Adaptive Full-band Harmonic Model
IEEE Trans. on Audio, Speech and Language Processing, Vol.21, Issue 10, pp 2085-2095, 2013
22. Sevasti-Zoi Karakozoglou, Nathalie Henrich, Christophe d'Alessandro, and Yannis Stylianou:
Automatic glottal segmentation using local-based active contours
Speech Communication, Special Issue on Advanced voice Function Assessment, Vol. 54 (5), pp 641-654, June 2012.
21. Devora Kiagiadaki, Theognosia Chimona, Gregory Chlouverakis, Yannis Stylianou, Efklidis Proimos, Chariton Papadakis, John Bizakis:
Evaluating the outcome of phonosurgery: comparing the role of VHI and VoiSS questionnaires in the Greek language.
Accepted to Journal of Voice, Aug 2011,
[doi:10.1016/j.jvoice.2011.05.002](https://doi.org/10.1016/j.jvoice.2011.05.002)
20. Yannis Pantazis, Olivier Rosec, and Yannis Stylianou:
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IEEE Signal Processing Letters, pp. 1024-1026, Vol.17, No.12, Dec 2010
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