CURRICULUM VITAE

PERSONAL INFORMATION

Yannis Stylianou, Professor, IEEE Fellow

University of Crete
Computer Science Dept.
Voutes Campus
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Nationality	Hellenic	
Date of birth	11.29.1966	

WORK EXPERIENCE

2010-	Professor, University of Crete, Computer Science Dept., Greece
2018-	Senior Research Scientist, Apple, Cambridge UK
2013-2018	Group Leader, Speech Research Group, Toshiba Cambridge Research Lab, Cambridge, UK
2017-2020	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 Superieuere des Ingenieurs en Electronique et Electroteqnique – ESIEE Paris, France

EDUCATION AND TRAINING

1992-1995	PhD, Ecole Nationale Superieure des Telecomunications Departement Signal, ENST-Telecom Paris, France *Harmonic plus Noise Models for Speech , Combined with Statistical Methods*

Curriculum Vitae: Yannis Stylianou

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 2017-2020	IEEE Speech and Language Technical Committee
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

2014-15	Lead Guest Editor
	Speech Communication, Special Issue on *Importance of Phase in Speech Communication*
2012	Guest Editor
	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-	Associate Editor, EURASIP Journal on Speech and Audio Processing
2007-	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)
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: ERASITECHNIS *Processing, Analysis, Synthesis and Context-Based Retrieval for Multimedia Music-Related Data Bases of Traditional Music and Dancing Recordings* 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

2018	General Chair, IEEE Workshop on Speech Language Technology, SLT2018, Athens, Greece, Dec 18-21, 2018
2018	Tutorial Committee, Interspeech 2018
2017	Co-organizer, 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
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, 3nd 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 Aplications, 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

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.
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-	Mohammed Shifas PV, *Speech intelligibility and listening effort in noisy conditions*
2018	Dipjyoti Paul *Sequence to sequence modeling for speech modfications*

POST DOCTORAL RESEARCH FELLOWS

2012-2015	Maria Markaki *Speech decompositions and Vibrato Analysis*
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
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,
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. Diakoloukas:
    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. Diakoloukas:
    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:
    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.

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, 3ⁿᵈ 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

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. Diakoloukas, 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. Mowlaee, 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

20. Yannis Pantazis, Olivier Rosec, and Yannis Stylianou:
    Reply to "Iterative Estimation of Sinusoidal Signal Parameters"
    IEEE Signal Processing Letters, pp. 1024-1026, Vol.17, No.12,
    Dec 2010

19. J.D. Arias-Londono, J.I. Godino-Llorente, M. Markaki, and Y. Stylianou:
    **On combining information from Modulation Spectra and Mel-
    Frequency Cepstral coefficients for Automatic Detection of
    Pathological Voices**
    Logopedics, Phoniatrics, Vocology (LPV) Vol.36, Issue 2, pp.
    60-69, Jul 2011 doi:10.3109/14015439.2010.528788

18. Maria Markaki and Yannis Stylianou:
    **Voice Pathology Detection and Discrimination based on
    Modulation Spectral Features**
    IEEE Trans. on Audio, Speech and Language Processing, Vol.19,
    Issue 7, pp 1938-1948, Sept 2011

17. Maria Markaki and Yannis Stylianou:
    **Discrimination of Speech from Nonspeeech in Broadcast
    News Based on Modulation Frequency Features**
    Speech Communication: Special Issue on Perceptual and
    Statistical Audition, *Speech Communication*, *Volume 53, Issue 5,
    May-June 2011*, *Pages 726-735*

16. Yannis Pantazis, Olivier Rosec, and Yannis Stylianou:
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