

# **Curriculum vitae**

**Dr Theologos Athanaselis**

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**PERSONNAL DATA**

**Full name** Theologos Athanaselis  
**Date of birth** 28 June 1976  
**Place of Birth** Mytilene  
**Nationality** Greek  
**Contact address** Institute for Language and Speech Processing (ILSP / R.C. "Athena"), Epidavrou & Artemidos 6, Marousi 151 25, Athens, Greece  
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**EDUCATIONS**

2001 - 2007 Phd in Electrical and Computer Engineering, National Technical University of Athens (NTUA)  

- ❖ Dissertation title: “Algorithms for application of N-grams in Automatic Spontaneous speech recognition and text processing”, Division Of Signals, Control And Robotics, under supervision Prof. G. Carayannis

1999 - 2000 MSc in Engineering and Physical Science in Medicine  
Department of Biological and Medical systems  
Imperial College of Science, Technology and Medicine  

- ❖ Thesis: “Detection of geometrical shapes in still images using scale-space theory”, Image Processing

1994 - 1999 Democritus University of Thrace, Polytechnical School, Electrical and Computer Engineering, Diploma in Electrical and Computer Engineering  

- ❖ Diploma Thesis: “The effects of Magnetic field in human’s rehabilitation”  
Division of Communications and Satellite

**EMPLOYMENT HISTORY**

11/01-up to date Institute of Language & Speech Processing (ILSP / R.C. "Athena"), Athens, Greece  
Researcher / Electrical and Computer Engineer

01/01 – -07/01 Unisystems, IT company, Athens, Greece  
Electrical and Computer Engineer

## SCIENTIFIC SKILLS

- Digital Signal Processing
  - ❖ Emotional Speech Processing
    - Hidden Markov Models Training (HMMs').
    - Emotional Speech databases.
    - Emotional Feeltrace.
    - Statistical Text Processing.
    - Pattern Matching Techniques (dynamic time warping).
  - ❖ Speech Enhancement/denoising.
  - ❖ Phonetic features extraction
  - ❖ Spectral Analysis
- Digital Image Processing
  - ❖ Image Enhancement for Medical Imaging.
  - ❖ Image Shape Detection.
- Natural Language Processing
  - ❖ Language Modelling
    - Text Corpus Analysis.
    - Semantic Analysis
  - ❖ Language Technology Applications
    - Linguistic and Para-Linguistic Analysis.
    - Human Computer Interaction.

## SCIENTIFIC AND RESEARCH PROJECTS

- 2002-2004 "IST-ERMIS"  
(Emotionally Rich Man-machine Intelligent System)  
Funded by 5th FWP (Fifth Framework Programme)  
Emotional Speech Recognition
- 2007- 2009 "IST-AGENT\_DYSL"  
(Accommodative intelligent educational environments for DYSLexic learners)  
Funded by FP6-IST  
Speech recognition for dyslectic people
- 2004-2009 "IST-HEARCOM" (Hearing in the communication society)  
Funded by FP6-IST  
Client Server Speech recognition Applications for disabled people
- 2007- up to date "IST-SOPRANO"  
(Service Oriented PRogrammable smArT enviroNments for Older Europeans)  
Funded by FP6-IST  
Smart Homes Speech recognition Applications
- 2006-2007 "ΕΗΓ-Αυθόρμητο" (Automatic Spontaneous speech recognition)  
"Image, Sound and Language processing"  
General Secretariat for Research and Technology of the Ministry of Development  
Language Models Design
- 2006-2008 "ΕΗΓ-SUB4ALL": (Automatic Subtitling)  
"Image, Sound and Language processing"  
General Secretariat for Research and Technology of the Ministry of Development  
Radio/TV Speech Indexing

## PROFESSIONAL TRAINING SEMINARS AND CERTIFICATES

- 30/05/2001 Microsoft Approved course "Mastering Microsoft Visual Basic 6 Development"  
ITEC Consultancy  
Microsoft Certified Technical Education Center
- 25/06/2001 Microsoft Approved course "Accelerated training for MS-SQL Server 7.0"  
ITEC Consultancy  
Microsoft Certified Technical Education Center

## TEACHING EXPERIENCE

- Seminars in «EYTEXNOS» Information and Communication technologies for disabled people. "Emotional Speech Recognition tutorial".
- Teaching Assistant – to Professor George Carayannis in "Introduction to Signals and Systems" NTUA 2001-2007

## PROGRAMMING SKILLS

- Programming
  - ❖ Microsoft Visual Studio C/C++, Visual Basic 6.0
  - ❖ Borland C/C++
  - ❖ FORTRAN 2003, MATLAB R2007b
- Audio Processing
  - ❖ Praat 5.1.15, Audacity 1.2.6, Cool Edit 2000, WavePad Sound Editor
- Image Processing
  - ❖ Adobe Photoshop CS3, Adobe Illustrator CS3, Paint.net, Picasa 3, Sound Forge 9
- Video processing
  - ❖ Flash Video Encoder

## MEMBERSHIPS

- Member of National Technical Chamber (T.E.E)
  - ❖ Committee of Information and Communications Technology
- Member of Hellenic Association of Mechanical & Electrical

## FOREIGN LANGUAGES

- ENGLISH
  - ❖ First Certificate in English, MSc in Engineering and Physical Science in Medicine
- FRENCH
  - ❖ Certificat de Langue Francais, D.E.L.F A3,A4