AGHILAS SINI

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Research Interest

Speech and Language Processing, Machine learning.

Education

$A cademic\ background$

2014	Master 2 - Artificial Intelligence, Pattern Recognition and Robotics Université Paul SABATIER- TOULOUSE. France
2013	Master 1 - Real Time Systems Engineering Université Paul SABATIER- TOULOUSE. France
2011	B.Sc - Control System and Automation Université Mouloud MAMMERI- TIZI OUZOU. Algeria

Workshop and Summer School attended

textual corpus

phonetics

Nov	Workshop on "Feedback in Pronunciation Training"
2015	Hofgut Imsbach, Northern Saarland, Germany
Jul	Speech Synthesis: Advancement in Modern Speech Synthesis Engines
2016	University of Crete, Heraklion, Crete, Greece

Professional Experience

As a research engineer

Jan 2016 present	IFCASL Project (Individualized Feedback for Computer-Assisted Spoken Language Learning) LORIA-INRIA Laboratory Nancy. - Automatic pronunciation diagnosis and error detection for Germans learning french - Modification and re-synthesis of learner audio samples using teacher audio samples based on Pitch Synchronous Overlap and Add algorithm - Feedback to correct devoicing of final consonants in French spoken by German learners
Jan 2016 Mar 2016	Lecturer in Web Programming IUT Charlemagne, Université de Lorraine, Nancy - JavaScript, Ajax, JQuery. For second year post baccalaureat students
Nov 2014 Jan 2016	ORTOLANG Project Open Resources and TOols for LANGuage LORIA-INRIA Laboratory Nancy. - Development of syntactic-semantic analyser tool called J-Safran for spoken documents in French language - Contributing to development of JTRANS tool for semi-automatic alignment of speech and

- Contributing to development of JSnoori an Interactive tool for speech signal processing and

Internship (Master Thesis)

Mar 2014 Mapping of a sound environment for a mobile robot

Aug 2014 LORIA-INRIA Laboratory Nancy.

Control of a mobile robot movements to localize a sound source as quickly as possible. The belief about the source position is represented by a discrete grid and a dynamic programming algorithm was introduced to find the optimal robot motion minimizing the entropy of the grid.

Publications

- (1) E. Vincent, A. Sini and F. Charpillet, "Audio source localization by optimal control of a mobile robot," Acoustics, Speech and Signal Processing (ICASSP), 2015 IEEE International Conference on, South Brisbane, QLD, 2015, pp. 5630-5634.
- (2) S. Ghosh, A. Sini, Y. Laprie and C. Fauth, "L1-L2 interference: the case of final devoicing of French voiced fricatives in final position by German learners". To appear in Proceedings of Interspeech 2016, San Francisco.

Activities & Independent Courses

Other Activities

- Data collection for IFCASL Project
- Member of Deep Learning Discussion Group at LORIA-INRIA
- Volunteer for MRI Data Collections
- Hosted the booth for demonstration of tools in "Village des Sciences" at LORIA

Online Certificate Courses

Oct 2015 Digital Signal Processing

Dec 2015 École polytechnique fédérale de Lausanne taught by Prof. Paolo Prandoni & Martin

Vetterli

Jan 2016 Data Science Specialisation

May 2016 Johns-Hopkins University by Jeff Leek, Roger D. Peng & Brian Caffo

Computer Skills

Programming C, C++, Java, Shell script, Jython, Python

Scientific tools Matlab/Octave, TensorFlow, R

Web HTML, CSS, JavaScript, Ajax, JQuery, REST

Data structure XML, JSON

Communication Skills

French Fluent English Fluent

References

Denis Jouvet Research Director, INRIA Multispeech

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Yves Laprie Research Director, CNRS Multispeech

yves.laprie@loria.fr