

Prototyp software „Webový přehrávač audiovizuálních záznamů“, se skládá z:

- navigační stránky, kterou tvoří komponenty:
 - Navigace a globální vyhledávací pole. (viz příloha 1, obrázek 1 - A)
 - Seznam kategorií a jednotlivých záznamů v kategorii. (viz příloha 1, obrázek 1 - B)
- globální vyhledávací stránky, kterou tvoří komponenty:
 - Navigace a globální vyhledávací pole. (viz příloha 1, obrázek 2 - A)
 - Seznam nalezených dokumentů na základě vloženého klíčového slova. (viz příloha 1, obrázek 2 - B)
 - Výskyty vloženého klíčového slova ve zvoleném záznamu. (viz příloha 1, obrázek 2 - C)
 - Přehrávač videa - používá se komerční přehrávač JW Player™ od společnosti LongTail Video. FIT má zakoupenou komerční licenci. (viz příloha 1, obrázek 2 - D)
- stránky přehrávače audiovizuálního záznamu, kterou tvoří komponenty:
 - Navigace a globální vyhledávací pole. (viz příloha 1, obrázek 3 - A)
 - Název audiovizuálního záznamu, jméno autorů a abstrakt. (viz příloha 1, obrázek 3 - B)
 - Přehrávač videa - používá se komerční přehrávač JW Player™ od společnosti LongTail Video. FIT má zakoupenou komerční licenci. (viz příloha 1, obrázek 3 - C)
 - Prohlížeč synchronizovaných slajdů v podobě obrazových náhledů jednotlivých slajdů a seznamu slajdů. (viz příloha 1, obrázek 3 - D)
 - Vyhledávání v daném audiovizuálním záznamu. (viz příloha 1, obrázek 3 - E)
 - Synchronizovaný textový přepis. (viz příloha 1, obrázek 3 - F)
 - Doprovodné informace o audiovizuálním záznamu. (viz příloha 1, obrázek 3 - G)
- vyhledávacího jádra - postaveno na vyhledávacím stroji Apache Lucene™ (dostupný pod Apache licenci, která umožňuje použití softwaru pro komerční účely)
- grafiky a CSS stylů
- návrhu databáze
- z PHP skriptů a JavaScript souborů

1 – Navigační stránky

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ICASSP 2011

The 36th International Conference on Acoustics, Speech and Signal Processing took place at the Prague Congress Centre (PCC), May 22-27, 2011. The ICASSP meeting is the world's largest and most comprehensive technical conference focused on signal processing and its applications.

Website: <http://www.icassp2011.com>

You can browse through the recordings of ICASSP2011 oral presentations for which we were granted permission to make them publicly available. We are sorry that we unfortunately didn't manage to record several presentations due to technical problems. If you have any questions, contact us at info@superlectures.com.

1-B

May 22-27, 2011
Prague
Czech Republic

2011 International Conference
on Acoustics, Speech and Signal Processing

[Acoustic Modeling](#)

Number of Recordings: 3

[Acoustic Source Separation](#)

Number of Recordings: 4

[Adaptation for ASR](#)

Number of Recordings: 4

[Audio/Visual Detection of Non-Linguistic Vocal Outbursts](#)

Number of Recordings: 5

[Beamforming and MIMO](#)

Number of Recordings: 3

[Bio-inspired Information Processing and Networks](#)

Number of Recordings: 4

[Biosignal Estimation and Classification](#)

Number of Recordings: 4

[Biosignal Processing](#)

Number of Recordings: 4

[Classification and Pattern Recognition](#)

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- [Compressed Sensing: Theory and Methods](#) (6)
- [Detection and Estimation](#) (4)
- [Distributed and Collaborative Signal Processing](#) (5)
- [Distributed and Cooperative Processing](#) (2)
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Příloha 2 – Globální vyhledávací stránky

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2-A

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2-B

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MODEL-BASED SPEECH ENHANCEMENT USING SNR DEPENDENT MMSE ESTIMATION ▶

Speech Enhancement
 Thomas Esch, Peter Vary, RWTH Aachen University, Germany; presented by: Thomas Esch
 about 73 results (Speech: 34, Title: 1, Category: 1, Author(s): 0, Abstract: 3, Slides: 34), Video Time: 0:16:47

10 results of 34 (0.0010 seconds)

0:00:20	99 %	▶	...model based speech announcements at first i...
0:01:36	99 %	▶	...enhanced uh speech signal okay a literature...
0:01:46	99 %	▶	...of as speech enhancement among them for...
0:01:58	99 %	▶	...distribution for the speech and the noise...
0:02:09	99 %	▶	...to i estimate the speech signal so...
0:02:28	99 %	▶	...uh model of our speech that so...
0:02:51	99 %	▶	...correlation of speech dft coefficient this is...
0:03:08	99 %	▶	...of the current speech a coefficient for...
0:04:10	99 %	▶	...enhanced a speech but such a a...
0:05:22	99 %	▶	...minus a first speech prediction mine the...

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Abstract Results (≈3 results)

- ...channel speech enhancement...
- ...the current speech and noise DFT...
- ...of the speech prediction...

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Slides Results (≈34 results)

- [MODEL-BASED SPEECH ENHANCEMENT USING SNR DEPENDENT MMSE ESTIMATION](#) [PDF], 9.78 MB

2-D

01:59 / 16:47

Show the speech transcript in playback

a model a

he's techniques usually as you a certain **distribution** for the speech and the noise signal for example a course in

or up pdf

and a light mathematical criteria like mmse embassy maximum likelihood or

AN APPROACH TO SEQUENTIAL GROUPING IN COCHANNEL SPEECH ▶

Speech Enhancement
 Ke Hu, DeLiang Wang, The Ohio State University, United States; presented by: DeLiang Wang
 about 78 results (Speech: 47, Title: 1, Category: 1, Author(s): 0, Abstract: 6, Slides: 23), Video Time: 0:21:31

AN SVM BASED CLASSIFICATION APPROACH TO SPEECH SEPARATION ▶

Speech Enhancement
 Kun Han, DeLiang Wang, The Ohio State University, United States; presented by: Kun Han
 about 55 results (Speech: 39, Title: 1, Category: 1, Author(s): 0, Abstract: 2, Slides: 12), Video Time: 0:20:25

PHONEME SELECTIVE SPEECH ENHANCEMENT USING THE GENERALIZED PARAMETRIC SPECTRAL SUBTRACTION ESTIMATOR ▶

Speech Enhancement
 Amit Das, University of Colorado Boulder / University of Texas at Dallas, United States; John Hansen, The University of Texas at Dallas, United States; presented by: John Hansen
 about 45 results (Speech: 23, Title: 1, Category: 1, Author(s): 0, Abstract: 4, Slides: 16), Video Time: 0:21:47

ANALYSIS-SYNTHESIS BASED SPEECH ENHANCEMENT WITH IMPROVED SPECTRUM ENVELOPE ESTIMATION BY TRACKING SPEECH DYNAMICS ▶

Speech Enhancement
 Ruofei Chen, Cheung-Fat Chan, City University of Hong Kong, Hong Kong SAR of China; presented by: Ruofei chen
 about 42 results (Speech: 34, Title: 2, Category: 1, Author(s): 0, Abstract: 5, Slides: 0), Video Time: 0:18:18

AN EVALUATION OF NOISE POWER SPECTRAL DENSITY ESTIMATION ALGORITHMS IN ADVERSE ACOUSTIC ENVIRONMENTS ▶

Speech Enhancement
 Jalal Taghia, Ruhr-Universität Bochum, Germany; Jallil Taghia, Nasser Mohammadiha, KTH - Royal Institute of Technology, Sweden; Jinju Sang, University of Southampton, United Kingdom; Vaclav Bouse, Siemens Audiological Engineering Group, Germany; Rainer Martin, Ruhr-Universität Bochum, Germany; presented by: Jalal Taghia
 about 22 results (Speech: 19, Title: 0, Category: 1, Author(s): 0, Abstract: 2, Slides: 0), Video Time: 0:19:54

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Příloha 3 – Stránky přehrávače audiovizuálního záznamu

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MODEL-BASED SPEECH ENHANCEMENT USING SNR DEPENDENT MMSE ESTIMATION **3-B**

Speech Enhancement

Full Paper at IEEE Xplore

Presented by: Thomas Esch, Author(s): Thomas Esch, Peter Vary, RWTH Aachen University, Germany

This contribution presents a modified Kalman filter approach for single channel speech enhancement which is operating in the frequency domain. In the first step, temporal correlation of successive frames is exploited yielding estimates of the current speech and noise DFT coefficients. This first prediction is updated in the second step applying an SNR dependent MMSE estimator which is adapted to the (measured) statistics of the speech prediction error signal. Objective measurements show consistent improvements compared to estimators which do not take into account the temporal correlation or the influence of the input SNR on the statistics of the prediction error signal.

3-C

Evaluation, Test Results, and Demonstration

09:54 16:47

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3-D

Evaluation, Test Results, and Demonstration

Objective measurements (f16, babble, car, factory, WGN)

Further objective measurements can be found in the paper.

Thomas Esch - Model-Based Speech Enhancement 11 RWTH AACHEN

Enlarge the slide | Show all slides in a pop-up window

0:01:00	2. slide
0:01:42	3. slide
0:03:26	4. slide
0:04:31	5. slide
0:05:11	6. slide
0:06:20	7. slide
0:07:26	8. slide
0:08:13	9. slide
0:09:25	10. slide
0:09:51	11. slide
0:13:04	12. slide
0:13:56	13. slide
0:14:33	14. slide

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3-E

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0:00:20	99 %	...a model based speech announcements at first i would...
0:01:36	99 %	...we enhanced uh speech signal okay a literature uh...
0:01:46	99 %	...purpose of as speech enhancement among them for example...
0:01:57	99 %	...certain distribution for the speech and the noise signal...
0:02:09	99 %	...order to i estimate the speech signal so the...
0:02:27	99 %	...specific uh model of our speech that so here...
0:02:50	99 %	...temporal correlation of speech dft coefficient this is illustrated...
0:03:08	99 %	...predict of the current speech a coefficient for this...
0:04:10	99 %	...the enhanced a speech but such a come...
0:05:22	99 %	...and minus a first speech prediction mine the first...

Show 10 more results (all)

3-F

Speech Transcript

... a previous names ... and is names ... and the up step to pull out ...

0:09:46 uh the noise power ... a would can we cheap with ... such a system at first ... uh objective measurements averaged over ... different uh noise signals ...

0:09:57 is see that segment of speech as an hour ... lot of over the noise attenuation with the input as an R ... um bearing your from mine ... a ten to thirty five ... E ...

0:10:09 objective here is to achieve a high noise attenuation and a high ... a segment speech as an are so the more these curves of place in the upper right corner ... the better performance ... in ... a blue and red to see the results of two purely statistical estimators ...

0:10:25 the wiener filter and a low plus mse the estimator ... which assumes a low class distribution for the a speech signal ... and the green and ... um like to

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3-G

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