

Audio- / Videosignalverarbeitung

Advanced Digital Signal Processing

Digital Signal Processing 2

Additional Task ADSP

WS 2012/2013

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1. Task

- **Write a scientific report/summary about one of the following topics:**
 1. Quantization (consider quantisation error, quantisation SNR,...)
 2. Companding
 3. Max-Lloyd Quantizer
 4. Vector-Quantizer
 5. Sampling
 6. FIR- and IIR-Filter
 7. Noble Identities
 8. Polyphase Filter
 9. Allpass Filter
 10. Frequenz Warping
 11. Minimum Phase Filter
 12. Hilbert Transformation
 13. Wiener Filter
 14. Matched Filter

2. Rules

1. choose one topic for yourself (groupwork is not allowed)
2. write at least 2 DIN A4-pages (font size 12pt.)
3. follow the scientific citation rules (wikipedia is not a proper source to cite)
4. write in english
5. upload your report as PDF until the deadline
6. name your file like this: NumberTopic_Lastname_Firstname
7. if there are several identical reports, only the first uploaded one will be graded

Uploading-Deadline:

Wednesday, 23rd January 2013, 9am