Chair of Media Technology
Prof. Dr.-Ing. Eckehard Steinbach

Technische Universität München

Multidimensional Digital Signal Processing WS19/20

MATLAB Homework Introduction

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Organization

- **6** Homework throughout the semester
- **2-3 weeks** time for completion
- Introduction of problems in class
- Discussion of solutions in class

- **For questions:**
  - Post in the forum "Matlab Questions" on Moodle
  - E-mail Basak Gülecyüz (basak.guelecyuez@tum.de)
  - **Lab sessions:** Monday and Friday, 14:00-18:00, Room 0943

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Organization

- Each homework includes:
    - **A Questions:** Quiz on Moodle
    - **C Questions:** Coding Assignments on **MATLAB Grader**

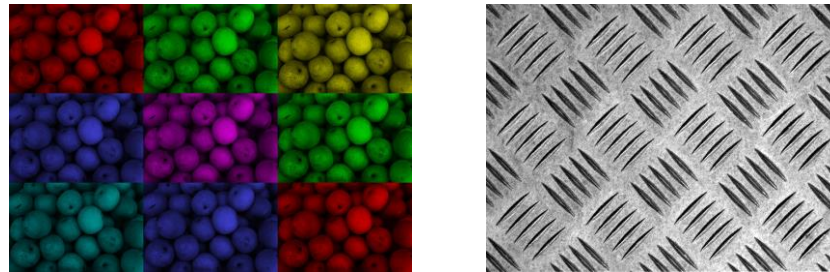- Unlimited number of submissions, last submission counts!

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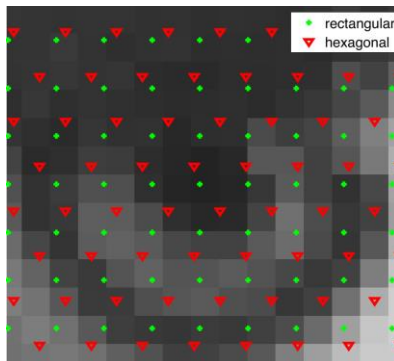
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Organization

- **Bonus:** If you achieve overall 65% of the points you get a bonus of 0.3 in your grade, assuming you passed the exam

- Please register to the course to have access to:
  - **MATLAB Grader**
  - **Room 0943**

- **MATLAB Introduction:** Friday 18/10 14:00-18:00 and Monday 21/10 14:00-18:00

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Homework Content

- **HW1:** Image Manipulation and Periodic Sequences

- **HW2:** Image Sampling and Filtering

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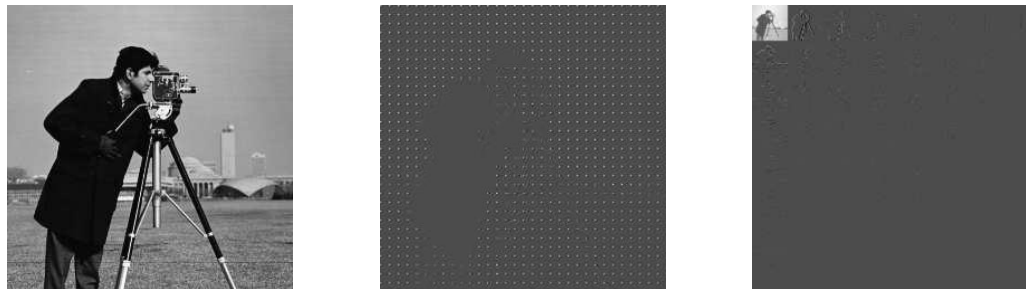Prof. Dr.-Ing. Eckehard Steinbach

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Homework Content

- **HW3:** DFT and Block Transform
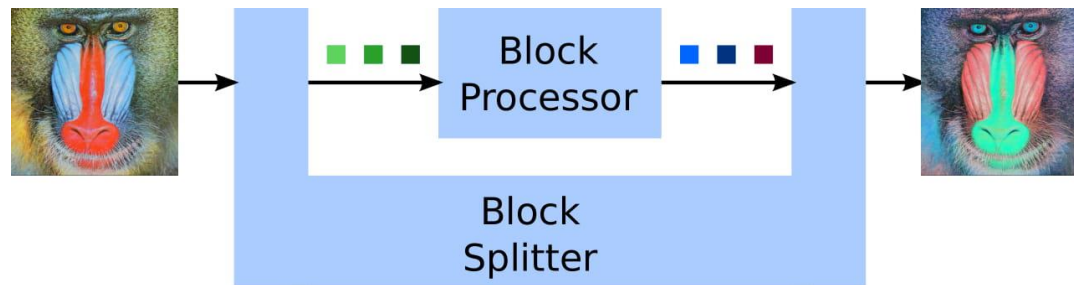
- **HW4:** DCT and KLT Transformations

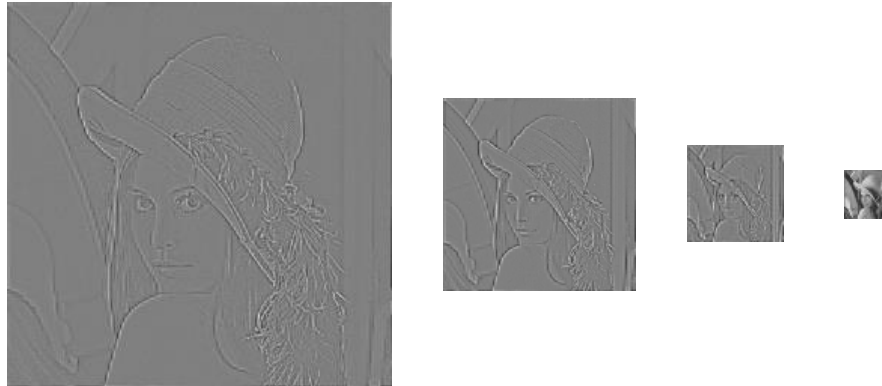Chair of Media Technology
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Homework Content

- **HW5:** Autoregressive Models and Pyramids

- **HW6:** Subband Decomposition and Lifting