

Modern High Dynamic Range Imaging at the Time of Deep Learning

Syllabus

Francesco Banterle and Alessandro Artusi

Who We Are



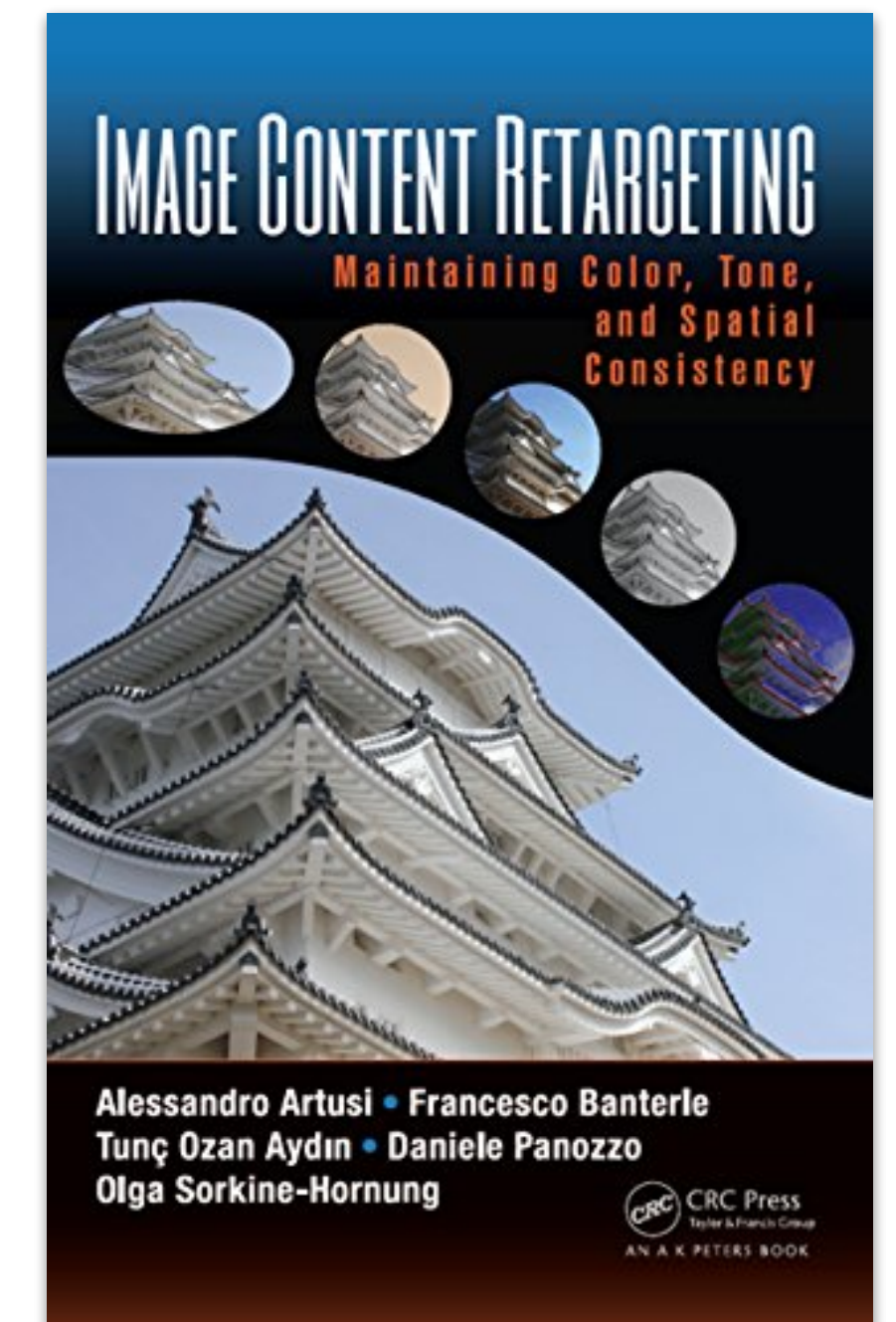
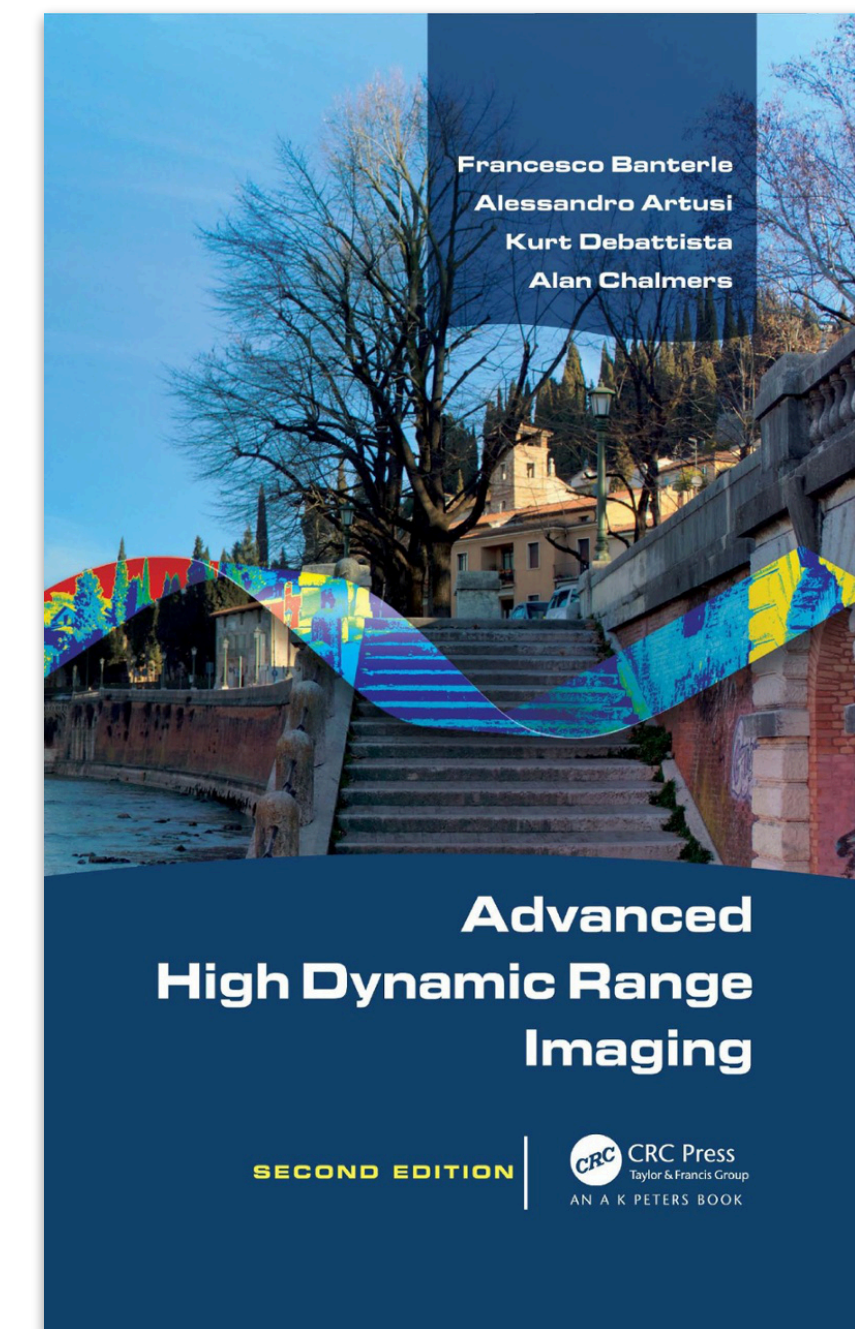
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HDR Experience

- More than 17 years of experience on HDR imaging on different topics:
 - Tone Mapping
 - Inverse Tone Mapping
 - Texture/Video Compression
 - Image-Based Lighting



HDR Experience

- Open source projects:
- The HDR Toolbox for MATLAB/Octave:
 - https://github.com/banterle/HDR_Toolbox
- Piccante, a C++ library for HDR imaging:
 - <https://github.com/cnr-isti-vclab/piccante>
- HDR Metrics
 - <https://github.com/banterle/NoR-VDPNet>

Schedule

- HDR Imaging introduction
- Main Deep Learning Architecture
- Multiple Exposure Reconstruction
- 16:00-16:30 — COFFEE BREAK
- Visualization
- Single Exposure Reconstruction or Inverse Tone Mapping
- Deep HDR Metrics