Learning to see in the Data Age

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Recent spectacular advances in machine learning techniques allow solving complex computer vision tasks -- all the way down to vision-based decision making. However, the input image itself is still produced by imaging systems that were built to produce human-intelligible pictures that are not necessarily optimal for the end task. In this talk, we will try to entertain ourselves with the idea of including the camera hardware among the learnable degrees of freedom. I will show examples from optical, acoustic, magnetic resonance, and radar imaging demonstrating that simultaneously learning the "software" and the "hardware" parts of an imaging system is beneficial for the end task.

Monday, October 2, 2023 11:30am - 12:30pm

Raiffeisen Lecture Hall

This invitation is valid as a ticket for the ISTA Shuttle from and to Heiligenstadt Station. Please find a schedule of the ISTA Shuttle on our webpage: https://ista.ac.at/en/campus/how-to-get-here/ The ISTA Shuttle bus is marked ISTA Shuttle (#142) and has the Institute Logo printed on the side.

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