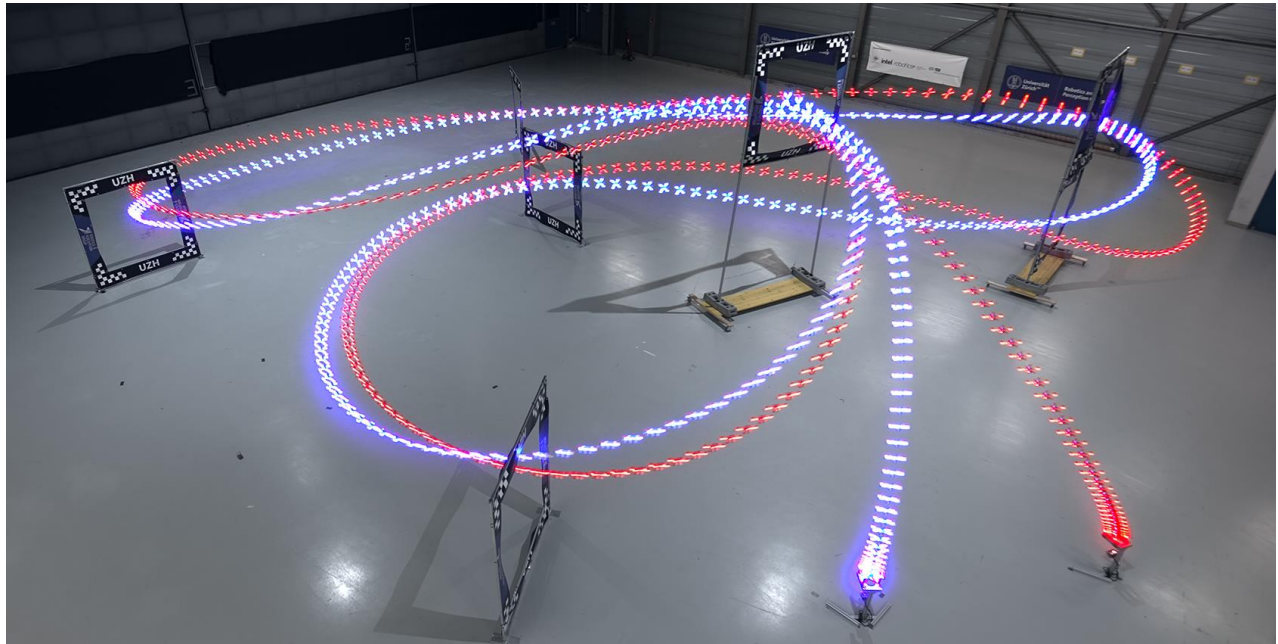


Einladung zum Vortrag

Human-Level Performance with Autonomous Vision-based Drones

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Datum: Donnerstag, 2. November 2023

Zeit: 17.30 Uhr

Ort: ETH Zürich Hörsaal Maschinenlabor ML D 28

Autonomous drones play a crucial role in search-and-rescue, delivery, and inspection missions, and promise to increase productivity by a factor of 10. However, they are still far from human pilots regarding speed, versatility, and robustness. What does it take to fly autonomous drones as agile as or even better than human pilots? Autonomous, agile navigation through unknown, GPS-denied environments poses several challenges for robotics research in terms of perception, learning, planning, and control. In this talk, I will show how the combination of both model-based and machine learning methods united with the power of new, low-latency sensors, such as event cameras, can allow drones to achieve unprecedented speed and robustness by relying solely on onboard computing. This can result in better productivity and safety of future autonomous aircraft.

Wir freuen uns auf Ihre Teilnahme. Gäste sind herzlich willkommen.

Mit freundlichen Grüßen
Dr. Jürg Wildi, Präsident