



Vortrag im Gästeprogramm des GRK 2075

Prof. Dr. Joachim Denzler

Lehrstuhl für Digitale Bildverarbeitung
Friedrich-Schiller-Universität Jena, 07737 Jena, Germany

Life-Long and Incremental Learning

Donnerstag, 13. Juli 2017, 11:00 - 12:30 Uhr
Institut für Statik, Seminarraum
Beethovenstrasse 51, 38106 Braunschweig

Life-long learning systems are system that are equipped with the capability to improve their performance continuously over time by observing data, detecting unexpected objects or events, adapting to shifts in the underlying distribution of the data, and by feedback by the human. This tutorial introduced some of the basic elements of such system from a machine learning perspective. I will introduce methods for novelty and anomaly detection, incremental updating classifiers, as well as active learning, i.e. the selection of the most promising unlabeled samples with respect to expected gain by annotating them by the human expert. A first version of such life-long learning system, called WALL, is introduced that implements already key elements and shows its performance in visual monitoring of biodiversity.

joachim.denzler@uni-jena.de
<http://www.inf-cv.uni-jena.de/denzler>

Kontakt

Institut für Statik
Technische Universität Braunschweig
Beethovenstraße 51
38106 Braunschweig
0531 - 391-3668
grk-2075@tu-bs.de
www.tu-braunschweig.de/grk-2075