Norbert Kruger, University of Southern Denmark

Professor, Ph.D., Maersk Mc-Kinney Moller Institute for Production Technology, Technical Faculty at the University of Southern Denmark. e-mail: norbert@mmmi.sdu.dk.

Norbert Kruger has been employed at the University of Southern Denmark since 2006 (first as an Associate Professor and then as a full Professor (MSO) since 2008). He is one of the two leaders of the Cognitive and Applied Robotics Group (CARO, caro.sdu.dk) in which currently 12 PhD students, two Assistant and two Associate Professor as well as 8 master students are working. Norbert Krüger's research focuses on Cognitive Vision, in particular vision based manipulation and learning. He has published 45 papers in journals and more than 80 papers at conferences covering the topics computer vision, robotics, neuroscience as well as cognitive systems. His H-index is 24. His group has developed the C++-software CoViS (Cognitive Vision Software) which is now used by a number of groups in national as well as European projects. He is currently involved in 2 European projects as well as 4 Danish projects.

Main activities:
2006 -   Professor at the University of Southern Denmark (until 2008 Associate Professor).
2003 - 2006 Associate Professor at Aalborg University in 2003
2001 - 2003 Postdoctoral position at the University of Stirling (Scotland)
1998 - 2001 Postdoctoral position at the Christian Albrechts University in Kiel (Germany).
1993 - 1998 PhD student at the Institute for Neural Computation at the Ruhr University of Bochum
                where he was supervised by Prof. von der Malsburg. During this time he also stayed for 3
                months at the University of Southern California in Los Angeles (USA).

The main achievements and activities:

- MSc in Mathematics (1993), University of Bochum, Germany
- Ph.D. Visual Learning with a prior Constraints (1998), University of Bielefeld, Germany
- Member of the program committee in a number of international conferences (e.g., ACCV, ICRA) in the area of computer vision, machine learning and robotics
- Patent on a Face Finding Algorithm (1998)
- Leader of the Cognitive Vision Lab (CoViL) since July 2006 at the University of Southern Denmark
- Generating external funding of approx. 5.000.000 Euros
- Published 45 papers in journals and more than 80 papers at conferences

European Projects:

- STREP project ACAT (2013-2016) focusing on teaching robots by means of human compatible information sources (e.g., instruction sheets)
- STREP project IntellAct (2011-2014) focusing on semantic scene understanding for learning by demonstration (coordinator)
- ECHORD project LearnBiP (2011-2012) focusing on grasp learning in bin picking (coordinator).
- IP project Xperience (2011-2015) focusing on structural bootstrapping in cognitive systems.
- Interreg project IRFO (2009-2012) concerned with the modeling of manipulation of flexible objects (scientific coordinator)
- IP-project PACO+ (2006-2010) focusing on the modeling of cognitive processes in the area of humanoid robotics
- STREP-project Drivsco (2006-2009) concerned with learning in the driver assistance domain.

Danish national projects: MADE (2014-2018), SAFE (2014-2017), CARMEN (2013-2017), patient@home (2012-2017), DiagnoseBot (2010-2013), SenseBot (2010-2013), BinPicker (2009 – 2012), Robo-Packman (2008 – 2010), Handyman (2007 - 2011), MoveBot (2007 - 2011), NISA (2006 – 2009).