University of Pavia

Ph.D. School of Electrical and Electronics Engineering and Computer Science

SEMINAR ANNOUNCEMENT

Normalizing Flows for Anomaly Detection and Probabilistic Human Pose Estimation

Prof. Bodo Rosenhahn
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Hannover, Germany

Tuesday 26th July, 2022, 2:30 pm (CET)
Aula Magenta (floor D) and Zoom (https://us02web.zoom.us/j/84431159622)
Dept. of Electrical, Computer and Biomedical Eng., University of Pavia – Via Ferrata, 5 – Pavia

Abstract: the seminar will focus on Invertible Neural Networks (also known as Normalizing Flows) and their applications. The presentation will start with a brief overview about the Institute for Information Processing (*tnt*) in Hannover and its recent research challenges and projects. It will then continue with the core concepts of Invertible Neural Networks (INNs) and their usage for representation learning. Due to the inherent property of invertibility of INNs, the seminar will show their potential in applications of defect detection and probabilistic 3D human pose lifting from 2D image data.

Bio: Marco Bodo Rosenhahn studied Computer Science (minor subject Medicine) at the University of Kiel. He received the Dipl.-Inf. and Dr.-Ing. degrees from the University of Kiel in 1999 and 2003, respectively. From 10/2003 till 10/2005, he worked as post doc at the University of Auckland (New Zealand), funded with a scholarship from the German Research Foundation (DFG). In 11/2005-08/2008 he worked as senior researcher at the Max-Planck Institute for Informatics in Saarbruecken. Since 09/2008 he is Full Professor at the Leibniz University Hannover, heading a group on automated image interpretation.

Organizer	**Ph.D. Coordinator**
Prof. Marco Porta	Prof. Ilaria Cristiani