

SEMINAR ANNOUNCEMENT

DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

College of Design & Engineering

Website: <https://cde.nus.edu.sg/ece/>

Area: Singal Analysis and Machine Intelligence

Host: Assistant Professor Xinchao Wang

Jointly organized with Learning and Vision Lab

TOPIC	:	Smart Adaptative Models
SPEAKER	:	Professor Pascal Fua
DATE	:	10 February 2025 (Monday)
TIME	:	10:00AM to 11:00AM
WEBINAR	:	E4-04-04

ABSTRACT

We live in a world full of manufactured objects of ever-increasing complexity that require clever engineering to be functional. Today, individual parts that composite objects are made of are optimized separately, control is not fully accounted for at design time, and much manual tinkering is required. As a result, our machines are not as efficient as they could be. We aim to change this by developing end-to-end trainable pipelines that incorporate all these elements. In this talk I will present our approach to composite design and co-design for shape and control.

BIOGRAPHY

Pascal Fua received an engineering degree from Ecole Polytechnique, Paris, in 1984 and a Ph.D. in Computer Science from the University of Orsay in 1989. He joined EPFL (Swiss Federal Institute of Technology) in 1996 where he is a Professor in the School of Computer and Communication Science and head of the Computer Vision Lab. Before that, he worked at SRI International and at INRIA Sophia-Antipolis as a Computer Scientist.

His research interests include shape modeling and motion recovery from images, analysis of microscopy images, and machine learning. He has (co)authored over 400 publications in refereed journals and conferences. He has received several ERC grants. He is an IEEE Fellow and has been an Associate Editor of IEEE journal Transactions for Pattern Analysis and Machine Intelligence. He often serves as program committee member, area chair, and program chair of major vision conferences and has cofounded three spinoff companies.

Google Scholar Id: <https://scholar.google.ch/citations?user=fua>