

**Author's Biographical Statement**

**Petra Perner** is the director of the Institute of Computer Vision and Applied Computer Sciences IBAI. She received her Diploma degree in electrical engineering in 1981 and her PhD degree in computer science in 1985. She has been the principal investigator of various national and international research projects. She received several research awards for her research work and has been recently awarded with 3 business awards for her work on bringing intelligent image interpretation methods into business. Her research interest is image analysis and interpretation, machine learning, data mining, machine learning, image mining and case-based reasoning. Recently, she is working on various medical, chemical and biomedical applications, information management applications, technical diagnosis and e-commerce applications. Most of the developments are protected by legal patent rights and can be licensed to qualified industrial companies. She has published numerous scientific publications and patents and is often invited as a plenary speaker in distinct research fields as well as across disciplines. Her vision is to build intelligent flexible and robust data-interpreting systems that are inspired by the human case-based reasoning process.