

Biometric Consortium 2005 Conference

Natalia A. Schmid
Assistant Professor
West Virginia University

Department of Computer Science and Electrical Engineering
West Virginia University, P.O. Box 6109
Morgantown, WV 26506-6109
Phone: 304.293.0405 x 2557 E-mail: natalias@csee.wvu.edu

Topic: A Model Based, Anatomy Based Method for Synthesizing Iris Images

Biography: Dr. Natalia A. Schmid is an Assistant Professor in the Lane Department of Computer Science and Electrical Engineering at West Virginia University. Her primary research interests are modern estimation and detection, stochastic pattern recognition, learning theory, biometrics, statistical image and signal processing, and information theory. She is currently leading two major projects at WVU related to biometrics and funded by the Center for Identification Technologies and Research, a joint NSF - industry sponsored program. Both projects are related to the iris biometric. The major goal of the first project is to synthesize a large scale database of iris images. The second project focuses on iris quality evaluation, segmentation of non-ideal irises, and designing non-ideal iris recognition systems.

She is also working on designing Automatic Target Recognition algorithms using the data collected by swarmed mini-UAVs sponsored by Navy. Her primary focus in this project is on stochastic modeling, optimal design of recognition and detection systems from finite amount of data, performance evaluation and analysis.

During her doctoral years at Washington University N. A. Schmid worked in the fields of Automatic Target Recognition (ATR) and general authentication. During her postdoctoral years at the University of Illinois in Urbana Champaign she was involved in work on Passive Radar Imaging.

Dr. Schmid publishes her work in recognized journals and conference proceedings.