

Technical information

- ▶ Feature selection, PCA, LDA, kernels, spectral band extraction, prototype similarities (SAM)
- ▶ Linear discriminants, Gaussian mixtures, Parzen, k-NN, k-means, Decision trees, Random Forests, Neural networks, Support Vector Machines, naïve Bayes and more
- ▶ **Deep learning** for local image classification, support for multi-band images
- ▶ Detection, Classification, Rejection, Classifier fusion, Classifier cascades
- ▶ Two- and multi-class ROC analysis, rejection curves, cost-optimization
- ▶ Cross-validation, leave-one-object out, Cluster analysis
- ▶ Local image and object-level features
- ▶ Real-time classifier deployment via runtime DLL

System requirements

- ▶ Supported operating systems: Windows 32/64 bit, Linux 32/64 bit, macOS 64 bit
- ▶ **Classifier design:** Matlab® 2010b or higher
- ▶ **Production deployment:** Any environment that can call a DLL
 - ▶ Execution runtime is ready for customized embedded deployment (DSP, real-time OS)

Training and consulting services

- ▶ **Regular training courses:** Five-day course providing practical methodology to R&D specialists
 - ▶ Overview of the state-of-the-art machine learning methods and practices
 - ▶ Intensive hands-on exercises on many industrial use-cases
 - ▶ From raw data to real-time embedding in a machine
 - ▶ Participants are welcome to bring their own data
- ▶ **In-house training courses**
- ▶ **Consulting services:**
 - ▶ Feasibility studies
 - ▶ Custom algorithm development



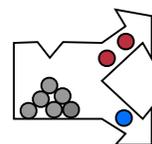
About perClass BV



perClass BV is a spin-off of Delft University of Technology in The Netherlands, founded (as PR Sys Design) to bring state-of-the-art pattern recognition to industrial practitioners. Initial focus on consulting services led to a powerful suite of in-house software tools. The result of this continuous effort is perClass software package, available on the market since 2008. Today, perClass is adopted by a range of innovative companies in their high-tech products and by number of academic and research institutes. Fully privately funded, perClass BV provides consulting and training services centered around perClass.

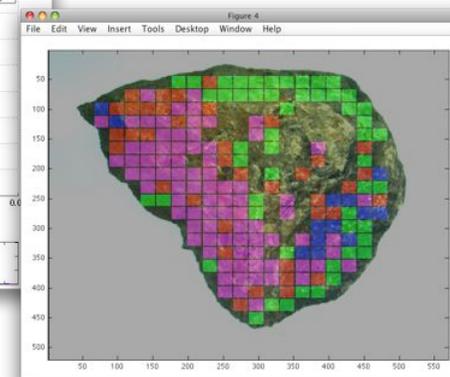
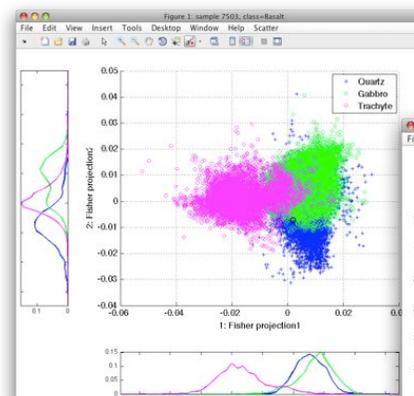


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perClass

The complete software solution for industrial machine learning



“ I found the course very informative. I think you have done an excellent job in developing a logical framework, with powerful tools, for tackling pattern recognition problems.

Dr. Garry Morrison, Senior Scientist, De Beers ”

“ perClass development environment is easy-to-use, powerful and extensive. Deploying the created algorithms is simple and reliable.

Jorick Naber, Type22 BV ”



