About us

The Fraunhofer Institute for Industrial Mathematics ITWM supports companies in the
development and optimization of products, services, communication processes and work
flows.

Based on innovative mathematical models and algorithms, the department Image Processing
offers customized all-in-one solutions, suitable for the needs of on-line production and
laboratory.

Our products are dedicated to the detection of defects in materials surfaces and a deeper un-
derstanding of the underlying structures inside of materials. We are also working on the
field of material characterization as is expanded in our flyer MAVI – Modular Algorithms
for Volume Images.

Technical Details

ToolIP currently is available for Windows 7. If you want to run ToolIP on other operating
systems (e.g. Linux), do not hesitate to contact us. In any cases we recommend at least
4GB RAM and up-to-date graphics.

We offer single user floating licenses and contracts for updates and service. We also give
on-site trainings and consulting.

You can download a free demo version of ToolIP on
www.itwm.fraunhofer.de/toolip
ToolIP is a software tool for the graphical design of complex image processing algorithms developed especially for the automatic online inspection of surfaces. ToolIP comes with an image processing library. Together, they are well suited to develop algorithmic solutions to detect irregularities and defects on the surfaces of your products. ToolIP is easy to use. Its graphical user interface (GUI) allows fast progress, also for the non-expert user.

ToolIP focuses on visual clarity. It supports the user in developing image processing solutions via a complex but at the same time clearly arranged algorithm graphs. ToolIP can easily be extended, e.g., you are able to work with your own algorithms by using ToolIP’s GUI and features through a simple SDK with a C/C++-interface. ToolIP can be customized to meet your own special requirements. If your applicational needs lie beyond ToolIP’s standard or extended functionality, do not hesitate to contact us.