



Thematic Network on Silicon on Insulator Technology, Devices and Circuits.
[IST-1-506653-CA]

EUROSIO "Who is Who" Guide

Name of the organisation

<i>Organization Legal name:</i>	TU Wien – Institut fuer Mikroelektronik
<i>Organization short name:</i>	TUW-IME
<i>Internet homepage:</i>	http://www.iue.tuwien.ac.at

Contact person

<i>Name:</i>	<i>Kosina</i>	<i>Title:</i>	<i>Prof.</i>
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Other Senior Researchers: (up to 10 names, please include e-mail address)

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Experience and expertise fields: (50 words)

Semiconductor device and process modeling, development of TCAD tools (MINIMOS, MINIMOS-NT, PROMIS, SAP, SIMON, VMC) and a TCAD framework (SIESTA), classical transport (drift-diffusion, energy transport, six-moments of the Boltzmann equation, full-band Monte Carlo simulation) and quantum transport (Wigner equation, tunnelling models, carbon nanotube simulation).

Facilities and Equipment:

The heart of the Institute's computing infrastructure is an IBM server cluster block. The cluster consists of four IBM p655 server nodes based on the 64 Bit Power 4+ Processor architecture. The cluster provides 192 GB total amount of RAM and 2 TB total disk space. The server nodes and storage system are linked by a Gigabit Ethernet. In addition, shared computing is performed the Institute's network. Each personal workstation is integrated in a Linux cluster and can be controlled remotely for performing compilation and simulation tasks.

Three last international research projects:

IST-NANOTCAD
IST-MAGIC_FEAT
IST-MULSIC