



Leiden University Research & Innovation Services

Novel Software Architecture for Interruption Free Updating

Keywords: Software architecture, software flexibility, mobile devices

Type of Opportunity: License and/or co-development opportunity

Description

Updating software from a first to a second version (e.g. to add functionality) is needed ever more frequently. Ideally this should be done without interrupting the normal operation of the (software) system, so without restarting a program or worse, rebooting the whole system.

Researchers at Leiden University have developed a software architecture that indeed allows the system to be updated and functionality to be added without stopping its normal operation. The old and the new functionality could even operate alongside each other. New processes functioning in the new way can be started while old processes can continue functioning in the old way until they have completely finished.

The technology is e.g. very useful for mobile devices. These need to keep operating while the outside environment changes and possibly asks for different or additional functionality of the software system.

Computer systems that operate 24/7 can also specifically benefit from this new technology.

Stage of Development: A simple environment is available for testing.

Key Benefits:

- Increased software and system flexibility
- Continuing operation of software and system when updating (no restart or reboot)
- Platform technology

Applications:

- Mobile devices
- 24/7 (always up) systems

Patent Status: A European patent application has been filed



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