

Parallelizing dynamic sequential programs using polyhedral process networks

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Propositions (Stellingen)

by Dmitry Nadezhkin, author of

Parallelizing Dynamic Sequential Programs using Polyhedral Process Networks

- 1. Techniques and methods used in deriving Polyhedral Process Networks from static programs cannot be used for the derivation of Polyhedral Process Networks from dynamic programs. New techniques should be developed. (*This dissertation*)
- 2. Uncertainties inherent to a dynamic program can be overcome by approximation and parameterization. (*This dissertation*)
- 3. Similar to static programs, it is possible to automatically reveal all available tasklevel parallelism in dynamic affine nested loop programs. (*This dissertation*)
- 4. In contrast to Polyhedral Process Networks derived from static programs, in Polyhedral Process Networks derived from dynamic programs some overhead is introduced due to control FIFO channels. (*This dissertation*)
- 5. Converting a nested loop program, the behavior of which is not precisely known at compile time due to the presence of data-dependent constructs, to an inputoutput equivalent Polyhedral Process Network can be accomplished in a systematic and automated way. (*This dissertation*)
- 6. A Ph.D. studentship is a perfect therapy to learn how to reflect on your own true values in life.
- 7. Do not try to change other people. It is impossible. The only thing one can change is himself.
- 8. Be optimistic in setting your goals, be pessimistic in planning activities.
- 9. The ultimate goal of writing or presenting your work is to ease the comprehension for the reader to the maximum.
- 10. Do not start to convey an idea until it is completely clear to yourself.