



Invitation **General Purpose GPU Symposium**

Date: Wednesday, 1st of September 2010
Location: Auditorium, room AUD-2 TU Eindhoven
Organization: TU/e Electrical Engineering + Océ Technologies R&D
Questions: J. van Dalen, j.v.dalen@tue.nl, tel. 040 247 4718, 06 33 655 320

Welcome

9.30 **Welcome with coffee**

General Purpose GPU technology

9.45	Opening and introduction GP-GPU Technology	Henk Corporaal (Electronic Systems, TU/e)
10.00	Introducing massively parallel processing using GPUs	Gert-Jan van den Braak (Electronic Systems, TU/e) Cedric Nugteren (Electronic Systems, TU/e) Wouter Caarls (Biorobotics Lab, TUDelft)
10.30	GPU programming paradigms	
11.00	Coffee Break	
11.30	Cross platform GP-GPU with OpenCL	George van Venrooij (Organic Vector)
12.00	Automatic parallelization of C-code	Jos van Eindhoven (VectorFabrics)

Lunch

12.30 **Lunch Break**

Applications

13.20	Challenges for the use of GPUs in embedded systems	Bart Mesman (Electronic Systems TU/e)
13.30	Application of GPUs at Thales Nederland	Marijn van Gaalen (Thales)
13.55	GPU processing within Philips Healthcare	Danny Ruijters (Philips Healthcare/iXR)
14.20	Applying GPUs for massive calculations	Ton Kostelijk (Philips Applied technologies)
14.45	Accelerating computer simulations on modern GPUs	Andrei Jalba (Computer Science, TU/e)
15.10	Coffee break	
15.40	Developing a video simulation platform using multiple GPUs	Freek Nossin (Task24)
16.05	Using GPU's processing power in high-end printers	Maurice Lutmer (Océ Technologies)
16.30	Many Core processing for the LOFAR Software Telescope	Rob van Nieuwpoort (Astron + VU Amsterdam)
16.55	Easily accessing the power of GPUs with MATLAB	Giorgia Zucchelli (Mathworks)

Follow up

17.15 Ideas and support for R&D cooperation on GPGPU technology Ramon Rentmeester (EZ, AgentschapNL)

Closure and drinks

17.30 **Closure and drinks** Henk Corporaal (Electronic Systems, TU/e)

For presentation handouts, see:

<http://www.es.ele.tue.nl/gpu>