Workshop Program

10:00 - 10:30 Welcome with coffee
10:30 - 10:45 Workshop Introduction by Ben van Werkhoven

10:45 - 12:30 Presentations
- 10:45 - 11:15 Trevor McDonell - A Functional Programming Language for GPUs
- 11:15 - 12:00 Valeriu Codreanu - Design and Performance Evaluation of a Commodity GPU Cluster for HPC and Deep Learning Workloads
- 12:00 - 12:30 Henk Dreuning - A Beginner's Guide to Estimating and Improving Performance Portability

12:30 - 13:30 Lunch

13:30 - 16:00 Presentations
- 13:30 - 14:00 Pieter Hijma - Optimization Effectiveness: A Case-Study in Relating Performance to Programming Effort
- 14:00 - 14:30 Sagar Dolas - Exploring the Potential of the ROCm Software Stack for High Performance Computing and Deep Learning on AMD GPUs
- 14:30 - 15:00 Maxwell Cai - GPU-accelerated Research in Astrophysics
- 15:00 - 15:30 Ehsan Sharifi Esfahani - A survey on Energy Efficiency in GPUs
- 15:30 - 16:00 Merijn Verstraaten - Mix-and-Match: A Model-driven Runtime Optimisation Strategy for BFS on GPUs

16:00 - 17:00 Drinks, Snacks & Networking

netherlands eScience center

5th NIRICT GPU Workshop

December 4, 2018
Utrecht, the Netherlands

Started in December 2015 as the *NIRICT GPGPU Reconnaissance project*
Goal is to understand the breadth and depth of GPU Research in the Netherlands
Brings together researchers in GPU Computing and software developers of GPU applications to exchange experience and ideas, and foster new collaborations

December 2015: Kick-off meeting
October 2016: 1st Workshop, theme “Support systems for GPGPU programming”
June 2017: 2nd Workshop, theme “GPU Applications”
November 2017: 3rd Workshop, theme “GPUs and program analysis”

March 2018: acquired funding for 3 more workshops and one tutorial
May 2018: 4th Workshop
December 2018: 5th Workshop

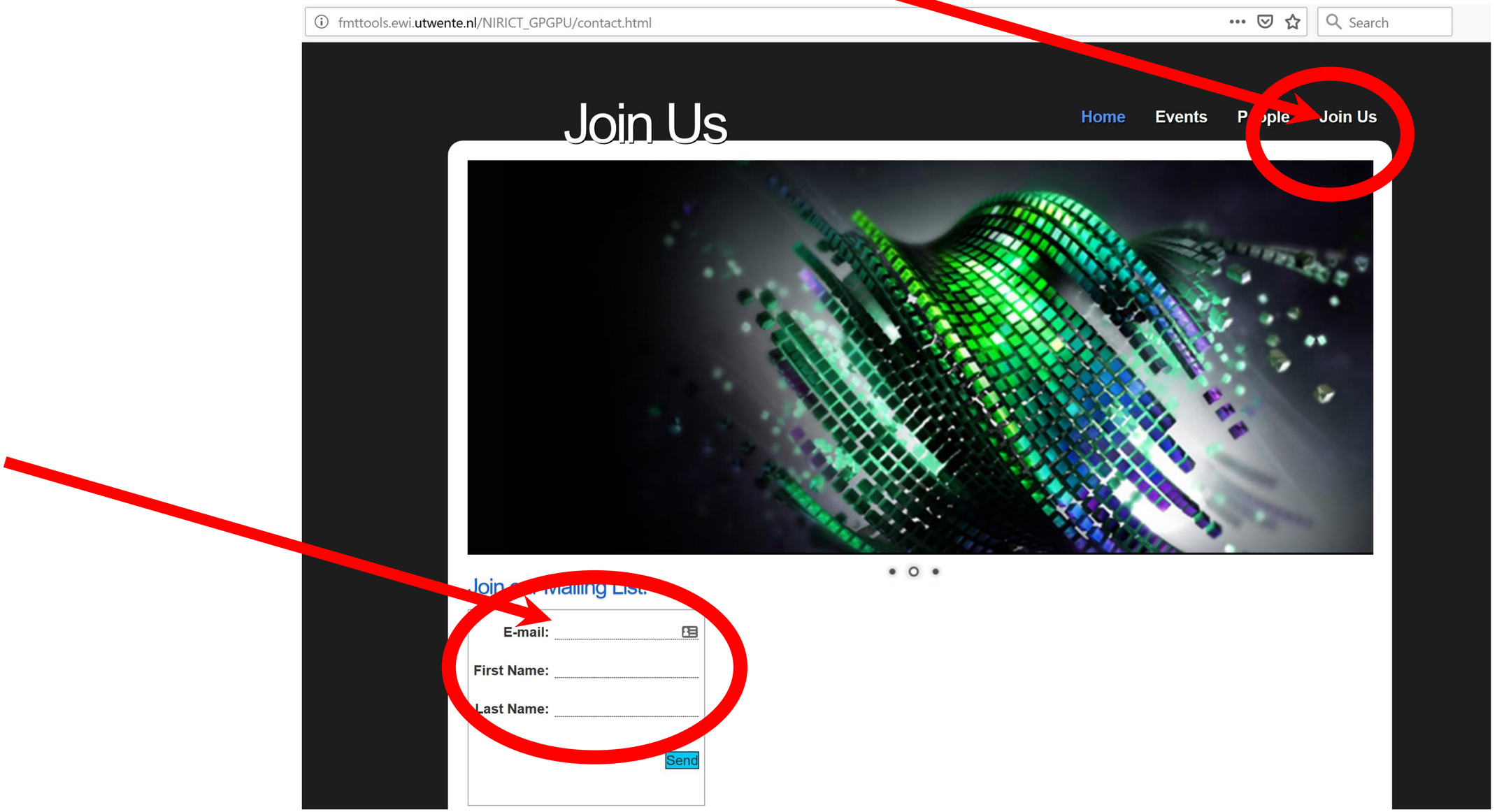
5th Workshop organizers

- Marieke Huisman (University of Twente)
- Anton Wijs (Eindhoven University of Technology)
- Ana Varbanescu (University of Amsterdam)
- Sven Warris (Wageningen University)
- Ben van Werkhoven (Netherlands eScience Center)

Supported by

- Mohsen Safari (website and mailinglist)
- Ida den Hamer (venue and financial matters)

Stay informed on future events!



Workshop Program

10:00 - 10:30 Welcome with coffee
10:30 - 10:45 Workshop Introduction by Ben van Werkhoven

10:45 - 12:30 Presentations
- 10:45 - 11:15 Trevor McDonell - A Functional Programming Language for GPUs
- 11:15 - 12:00 Valeriu Codreanu - Design and Performance Evaluation of a Commodity GPU Cluster for HPC and Deep Learning Workloads
- 12:00 - 12:30 Henk Dreuning - A Beginner's Guide to Estimating and Improving Performance Portability

12:30 - 13:30 Lunch

13:30 - 16:00 Presentations
- 13:30 - 14:00 Pieter Hijma - Optimization Effectiveness: A Case-Study in Relating Performance to Programming Effort
- 14:00 - 14:30 Sagar Dolas - Exploring the Potential of the ROCm Software Stack for High Performance Computing and Deep Learning on AMD GPUs
- 14:30 - 15:00 Maxwell Cai - GPU-accelerated Research in Astrophysics
- 15:00 - 15:30 Ehsan Sharifi Esfahani - A survey on Energy Efficiency in GPUs
- 15:30 - 16:00 Merijn Verstraaten - Mix-and-Match: A Model-driven Runtime Optimisation Strategy for BFS on GPUs

16:00 - 17:00 Drinks, Snacks & Networking