

Invitation Conference and Training Event on Computational Methods and Technologies for Finance May 13-15, 2013, Sokos Hotel Ilves and May 16-17, Tampere University of Technology Tampere, Finland http://www.hpcfinance.eu/networking-and-training-event-tampere

HPCFinance has the pleasure to invite you to the Conference and Training Event on Computational Methods and Technologies for Finance. In addition to the HPCFinance partners and fellows, a select number of key industry leaders and academic scholars are joining us to share their insights and up-to-date technology and product developments. The event consists of a mini-conference taking place in the Sokos Hotel Ilves in Tampere between Mon 13th and Wed 15th of May 2013, followed by lectures and exercises between Thu 16th and Fri 17th at the Tampere University of Technology. You can choose to attend one or both of the components. To avoid disappointment, please RSVP as attendance is limited.

HPCFinance – a Marie Curie Initial Training Network of the European Union – hereby invites you to attend the *Networking and Training Event on High-Performance Computing in Finance*. The event will focus on computationally intensive financial problems solved by means of acceleration on novel high-performance computing platforms. This will be a valuable opportunity to network and expand your knowledge-base together with other experienced business leaders, scholars, as well as the HPCFinance network consisting of 7 universities and 8 companies, including investment and insurance companies, banks, consultants, software vendors and high-performance computing solution providers. There will be more than 20 leading speakers from the European computing and financial industry and academia including Microsoft Azure, Wayne Luk (Imperial College), Marc Vlitos (FiNCAD), John Ashley (nVidia), Uwe Naumann (RWTH Aachen), Michael Dempster (Cambridge University), Mark Parsons (EPCC), Jacques du Toit (Numerical Algorithms Group), Terry Spitz (Citi) and many others.

The event, supported by the European Commission, is hosted by the Tampere University of Technology and Techila Technologies Ltd. Microsoft Corporation is kindly sponsoring the conference dinner. The event is free of charge for HPCFinance fellows and partners, as well as for the organizations speaking at the event. The cost of participation for external participants is 500 EUR for the conference (Mon-Wed) and 200 EUR for the lectures (Thu-Fri).

Registration

Participation is limited and we therefore accept registrations on a first-come, first-served basis. Please register no later than April 10, 2013: <u>http://www.hpcfinance.eu/registration-tampere-may-2013</u>.

For more information about HPCFinance network, please visit <u>www.hpcfinance.eu</u> or contact Prof. Juho Kanniainen (HPCFinance Project Coordinator) through <u>juho.kanniainen@tut.fi</u>. To see possible updates to the programme, please visit <u>http://www.hpcfinance.eu/networking-and-training-event-tampere</u>

Kind regards,

Juho Kanniainen (TUT), Rainer Wehkamp (Techila Technologies Ltd) and Erik Vynckier (SWIP)







PROGRAM

Will be updated, please visit <u>http://www.hpcfinance.eu/networking-and-training-event-tampere</u>

Location	Sokos Hotel Ilves	Sokos Hotel IIves	SokosHotel Ilves
	Monday, May 13	Tuesday, May 14	Wednesday, May 15
09:00-9:45		TITLE	PDE solution for Stochastic Local
		N N	Volatility Models
		N.N.	Zaid Haddou
		Calypso Optimising Risk Management	University of Manchester To be confirmed
9:45-10:30			To be continued
		Terry Spitz Citi	
Coffee	Coffee and Registration	Citi	
COILEE	Welcome, Juho Kanniainen, TUT		
11:00-11:45	Finance & Risk - Why HPC? - Why now?	Why the future is hybrid?	Dynamic stochastic optimization with HPC
	Erik Vynckier	Hicham Lahlou	Michael Dempster
	Scottish Widows Investment Partnership		
	- SWIP	Xcelerit	Cambridge University & CSA
11:45-12:30	Accelerating financial computation	Distributed Cloud Computing in Finance	NAG for finance engineering
	Wayne Luk	Rainer Wehkamp	John Holden
	Imperial College	Techila Technologies	Numerical Algorithms Group
Lunch			
Larion	Windows Azure Cloud Platform &	GPUs and Parallelism in Computational	Adjoint Methods in Computational
13:30-14:15	Financial HPC	Finance	Finance
13:30-14:15	N.N.	John Ashley	Uwe Naumann
	Microsoft	nVidia	RWTH Aachen
		Variable Annuity Semi-Static Hedging	Interval Arithmatic and Automatic
	Dataflow Computing for Finance	Strategy Testing with HPC	Differentiation in Optimisation and
14:15-15:00			Model Calibration
	Craig Davies	Peter M. Phillips	Grzegorz Kozikowski
	Maxeler	AonBenfield	University of Manchester
Coffee		ODU Commuting for Device the Delair a	American Manta Carla fan Dartfalla
	Speeding up natural catastrophe models with HPC	GPU Computing for Derivative Pricing - Experience from a Vendor	American Monte-Carlo for Portfolio CVA/PFE
15:30-16:15	Hélène Galy	Thomas Weber	Alexandre Moralli
	Willis	SciComp	Murex
	WIIIIS	Scicomp	
	Petascale to Exascale: the hardware and	Scaling Financial Analytics from the	Least-Squares Monte Carlo vs. Stochastic
	software challenge	Desktop to the Cloud	on Stochastic for Variable Annuities and
16:15-17:00	sortware endronge		Exotic Options with BS/Heston-CIR
	Mark Parsons	Marc Vlitos	Georgios Dimitrakopoulos
	EPCC	FINCAD	University of Manchester
	Coffee	Coffee	
	Cloud Supercomputing - from 0 to 100	Computational Finance with MATLAB	
17:15-18:00	TFLOPS in one click		
	Yuriy Guts	Sofia Mosesson	
	Eleks	MathWorks	
19:00	Event Dinner - Näsineula Tower		
	Sponsored by Microsoft		

Cont.









PROGRAM Cont.

Will be updated, please visit <u>http://www.hpcfinance.eu/networking-and-training-event-tampere</u>

Location	Tampere University of Technology		Tampere University of Technology		
	Thursday, May 16		Friday, May 17		
09:00-9:45	HPCFinance EU Project internal: Management and supervisory board meeting	Complementary training: negotiation skills Pentti Vanha-Aho TUT	HPC in the Cloud made easy: live demos and examples in Windows Azure Marko Koskinen Techila Technologies		
9:45-10:30	HPCF inance EU Project internal: Management and supervisory board meeting	Complementary training: Tomi Nokelainen TUT	HPC in the Cloud made easy: Marko Koskinen Techila Technologies		
Coffee					
11:00-11:45	HPCFinance EU Project internal: Management and supervisory board meeting	Introduction to OpenMP	Accelerate Financial Computations in MATLAB		
		Jussi Heikonen CSC - IT Center for Science	Daniel Armyr MathWorks		
11:45-12:30	HPCF inance EU Project internal: Management and supervisory board meeting	Introduction to OpenMP Jussi Heikonen CSC - IT Center for Science	Accelerate Financial Computations in MATLAB Daniel Armyr MathWorks		
Lunch					
13:30-14:15	Dataflow Computing, Hands-on Exercise Craig Davies Maxeler		Code optimization: principles and examples Mats Aspnäs Åbo Academi		
14:15-15:00	Dataflow Computing, Hands-on Exercise Craig Davies Maxeler		Code optimization: principles and examples Mats Aspnäs Åbo Academi		
Coffee					
15:30-16:15	GPU computing in finance - Local Volatility (Monte Carlo Jacques du Toit Numerical Algorithms Group				
16:15-17:00	Algorithmic Differentiation Software and application to Uwe Naumann RWTH Aachen				









HOW TO GET THERE

How to get there (Tampere)

By Plane

The Tampere-Pirkkala airport connects Tampere with direct flights to/from Copenhagen (Blue1), Helsinki (Finnair), Riga (Air Baltic), and Stockholm-Arlanda (Blue1).

By Train

There are train connections between Helsinki and Tampere every half an hour during peak-hours, and every hour during the rest of the day. Travel time is between 1 hour and 30 minutes and 2 hours.

For more information: <u>http://www.vr.fi/en/index.html</u>

By Bus

There are convenient bus connections between the Helsinki Airport and Tampere. Buses leave directly in front of Terminal 2. Travel time is between 2 hours and 20 minutes and 4 hours.

For more information: http://www.matkahuolto.fi/en/

How to get there (Sokos Hotel Ilves)

Sokos Hotel IIves is situated at the center of Tampere on walking distance from the train and bus main stations.

Address: Hatanpään valtatie 1 Tel. +358 20 1234 631 <u>ilves.tampere@sokoshotels.fi</u> <u>http://www.sokoshotels.fi/en/hotels/tampere/ilves/</u>

How to get there (Tampere University of Technology)

The Tampere University of Technology (TUT) is situated 10km from the center of Tampere. City buses number 13, 20, 24, and 30 provide transport between the center of Tampere and TUT (around 30min).

Address: Korkeakoulunkatu 10 Tel. +358 3 3115 11 http://www.tut.fi/en/visitors/index.htm









ACCOMODATION

The Sokos Hotel IIves has agreed to provide a discount for the event-participants (102€/day for single standard room and 122€/day for double standard room). Special prices are valid until April 16th. You would simply need to mention "HPCFinance" when making the reservation.

Sokos Hotel Ilves Address: Hatanpään valtatie 1 Tel. +358 20 1234 631 <u>ilves.tampere@sokoshotels.fi</u> <u>http://www.sokoshotels.fi/en/hotels/tampere/ilves/</u>

The following hotels also provide accommodation in the center of Tampere (in alphabetical order):

Cumulus Koskikatu Address: Koskikatu 5 Tel. +358 3 242 4111 <u>koskikatu.cumulus@restel.fi</u> <u>http://www.cumulus.fi/cumulus!/en_GB/</u>

Holiday Inn Tampere Address: Yliopistonkatu 44 Tel. +358 03 245 5111 <u>tampere.holidayinn@restel.fi</u> <u>http://www.finland.holidayinn.com/en_GB/</u>

Hotel Victoria Address: Itsenäisyydenkatu 1 Tel. +358 3 2425 111 <u>sales@hotellivictoria.fi</u> <u>http://www.hotellivictoria.fi/english/index.html</u>

Scandic Tampere City Address: Hämeenkatu 1 Tel. +358 3 244 6111 tamperecity@scandichotels.com http://www.scandichotels.com/Hotels/Countries/Finland/Tampere/Hotels/Scandic-Tampere-City/#.USOLo3cZ4kU

Sokos Hotel Tammer Address: Satakunnankatu 13 Tel. +358 20 1234 632 <u>tammer.tampere@sokoshotels.fi</u> <u>http://www.sokoshotels.fi/en/hotels/tampere/tammer/</u>





