

# ExtremeGreen 2013

Delft, 13<sup>th</sup> May 2013

Marcos Dias de Assuncao (IBM Brazil)

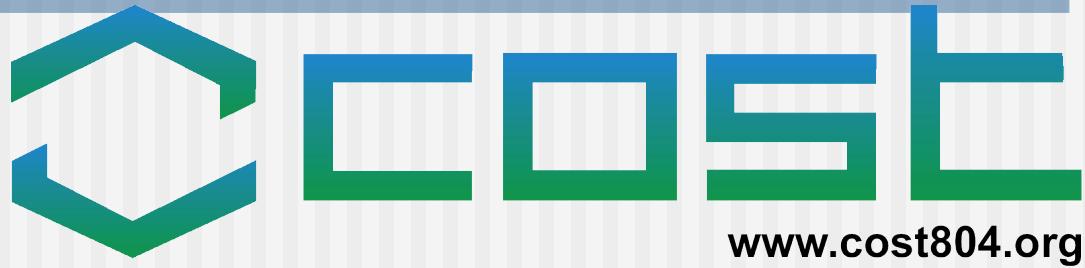
Laurent Lefèvre (INRIA)

Anne-Cécile Orgerie (CNRS)



# Support

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**Action IC0804**

# Thanks to all PC members !

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Cosimo Anglano, Università del Piemonte Orientale, Italy

Silvia Bianchi, IBM Research, Brazil

George Bosilca, Innovative Computing Laboratory - University of Tennessee, USA

Pascal Bouvry, University of Luxembourg, Luxembourg

Georges Da Costa, IRIT/Toulouse III, France

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Wu Feng, Virginia Tech, USA

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Olivier Gluck, Université de Lyon, France

Zhiyi Huang, Univ of Otago, NEw Zealand

Thomas Ludwig, University of Hamburg, Germany

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Manish Parashar, Rutgers University, USA

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Enrique S. Quintana-Orti, Universidad Jaume I, Spain

Ivan Rodero, Rutgers University / CAC, USA

Domenico Talia, University of Calabria, Italy

Jordi Torres, Barcelona Supercomputing Center (BSC)  
- Technical University of Catalonia (UPC), Spain

Xavier Vigouroux, BULL, France

Albert Zomaya, University of Sydney, Australia

# Program session

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13:30-14:30 : **Keynote speaker** : Manish Parashar (Rutgers University, USA) : "*Staying Green at the Extreme : Exploring Energy Challenges and Tradeoffs for Science Workflows at Extreme Scales*" (chaired by Laurent Lefevre)

14:30-15:00 : **Extreme Energy Efficiency in HPC Session** (chaired by Anne-Cécile Orgerie)

14:30-15:00 : Georges Da Costa. *Heterogeneity : the key to achieve Power-Proportional Computing*

15:00-15:30 : Break

15:30-17:00 : **Extreme Energy Efficiency in Clouds Session** (chaired by Marcos Dias de Assuncao)

15:30-16:00 : Dapeng Dong and John Herbert. *Energy Efficient VM Placement Supported by Data Analytic Service*

16:00-16:30 : Cesar Diaz, Harold Castro, Mario Villamizar, Johnatan E. Pecero and Pascal Bouvry. *Energy-aware VM Allocation on An Opportunistic Cloud Infrastructure*

16:30-17:00 : Chaima Ghribi, Makhlouf Hadji and Djamel Zeghlache. *Energy Efficient VM Scheduling for Cloud Data Centers: Exact allocation and migration algorithms*