

Nguyen Kim Thang

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Areas Design and Analysis of Algorithms, Algorithmic Game Theory, Approximation and Online Algorithms.

Positions **Aarhus University** Postdoctoral researcher 2009-2010

Education **Ecole Polytechnique** Ph.D in Computer Science 2006-2009

- Subject: *Pure Nash Equilibria: Existence and Inefficiency & Online Auctions*

Advisor: Christoph Dürr.

Committee: Evripidis Bampis, Olivier Bournez, Claire Mathieu, Peter Bro Miltersen, Jérôme Renault, Michel de Rougemont.

LRI, Paris 11 MSc in Computer Science 2005-2006

- Subject: *Quantum computation and complexity*

Advisor: Julia Kempe

Ecole Polytechnique Engineer Diploma 2002-2005

- Major: *Computer Science and Mathematics*

Honors **Ecole Polytechnique Fellowship** Graduate/Undergraduate Studies 2002-2009

Hanoi University of Science's Scholarship Honors Programs 2000-2002

National Competition of Mathematics First prize 2001

Publications

- Marek Chrobak, Christoph Dürr, Flavio Guíñez, Antoni Lozano, Nguyen Kim Thang. Tile Packing Tomography is NP-hard. *Proc. of the 16th Annual International Computing and Combinatorics Conference (COCOON), 2010*
- Dürr Christoph, Łukasz Jeż, Nguyen Kim Thang. Auctions with perishable items. *Proc. of the 7th Workshop on Approximation and Online Algorithms (WAOA), 2009*
- Dürr Christoph, Nguyen Kim Thang. Non-clairvoyant Scheduling Games. *Proc. of the 2nd International Symposium on Algorithmic Game Theory (SAGT), 2009.*
- Nguyen Kim Thang. NP-hardness of pure Nash equilibrium for Scheduling and Connections Games. *Proc. of the 35th Int. Conf. on Current Trends in Theory and Practice of Computer Science (SOFSEM), 2009.*
- Dürr Christoph, Nguyen Kim Thang. Nash equilibria in Voronoi Games on graphs. *Proc. of the 15th Annual European Symposium on Algorithms (ESA), 2007.*

Working and Submitted Papers

- Nguyen Kim Thang, Orestis A. Telelis. Mechanism without Payment is Expensive.
- Thomas Dueholm Hansen, Nguyen Kim Thang, Orestis A. Telelis. Facility Location Games with Fair Cost Allocation.

- Nguyen Kim Thang. Improved Algorithms for Maximizing Throughput in Online Scheduling of Equal Length Jobs.
- Nguyen Kim Thang. Faithful Nash dynamics.

Selected Invited Talks

- Scheduling Games in the Dark. *Dept. of Computer Science, University of Aarhus, 2009.*
- Algorithmic Game Theory. *Workshop on Game Theory and Computer Science, LIAFA, University of Paris 7, 2009.*
- Voronoi Games on Graphs. *Workshop on Game Theory and Computer Science, IBISC, University of Evry, 2007.*

Teaching Experience *Lecturer, Department of Computer Science, University of Aarhus*

- Approximation Algorithms (Graduate course) Spring 2010

Teaching Assistant, Department of Computer Science, Paris 11 (64 hours/year).

- Algorithms and Complexity, Algorithms on Graph (Graduate course) 2008-2009
- Algorithms and Complexity, Internet Programming, Networks 2007-2008
- Architecture of Computer, Programming in C, Compilation 2006-2007

Work Experience

- Department of Computer Science, University of Pennsylvania 04 - 08 /2005
Subject: *Harmony: An optimistic data synchronizer*
- Haiphong Tourism Company, Vietnam 07 - 08 /2004
- Department of Applied Mathematics, Ecole Polytechnique 02 - 04 /2003

Relevance

Computer Skills C, C++, Java, OCaml
Languages English (negotiate), French (negotiate), Vietnamese (native)
Sport Soccer (captain of Polytechnique team), Swimming
Activities Association "Dong Hanh"
 (helps poor but talented Vietnamese students)

References

- **Evripidis Bampis**
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University of Evry, 523 Place des Terrasses, Tour Evry 2, 91000 Evry, France.
Phone: +33 1 60 87 39 22. Email: bampis@ibisc.univ-evry.fr
- **Nikhil Bansal**
Researcher of Computer Science
IBM Research, Watson Research Center
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- **Christoph Dürr**
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