

**1. Personal information**

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Last name: Bampas  
 First name: Evangelos  
 Date of birth: 18/04/1981  
 Place of birth: Cholargos, Athens, Greece  
 Nationality: Greek  
 Contact:  
   telephone: +33 7 82 43 62 93 (mobile)  
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   web: <http://www.corelab.ntua.gr/~ebamp>

**2. Education**

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OCTOBER 2004 – OCTOBER 2009    **Philosophiæ Doctor**

University: School of Electrical and Computer Engineering, National Technical University of Athens, Greece  
 Date of defense: 12/10/2009  
 Thesis title: Routing and wavelength assignment in optical networks  
 Advisor: Efsthios ZACHOS  
 Committee: Timoleon SELLIS, Georgios KOLETOSOS, Aristeidis PAGOURTZIS, Elias KOUTSOUPIAS, Ioannis MILIS, Dimitrios FOTAKIS

SEPTEMBER 1999 – OCTOBER 2004    **Engineering Diplom**

University: School of Electrical and Computer Engineering, National Technical University of Athens, Greece  
 Diploma thesis: Algorithmic techniques in complexity theory (in Greek)  
 Supervisor: Efsthios ZACHOS

**3. Research interests**

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Distributed algorithms                    mobile agents, rendezvous, exploration, fault tolerance, limited energy, self-stabilization  
 Communication networks                optical networks, WDM, routing, wavelength assignment, decentralized and non-cooperative models  
 Computability and complexity         counting complexity, computability and complexity models for mobile agents

**4. Summary of publications**

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International journals	6	(Algorithmica, JCSS, IEEE/ACM ToN, Networks, ...)
International conferences	17	(DISC, LATIN, CIAC, ISAAC, SIROCCO, ...)
National conferences	3	
Theses	2	

## 5. Professional positions

- OCTOBER 2015 – JULY 2017 **Postdoctoral researcher**  
 Laboratoire d'Informatique Fondamentale de Marseille (LIF), Aix-Marseille Université, France  
 funded by a LabEx Archimède postdoctoral fellowship and ANR ANCOR project
- APRIL 2014 – SEPTEMBER 2015 **Postdoctoral researcher**  
 Laboratoire Bordelais de Recherche en Informatique (LaBRI), Université de Bordeaux, France  
 funded by ANR DISPLEXITY: *Distributed Computing: computability and complexity*
- AUGUST 2012 – MARCH 2014 **Postdoctoral researcher**  
 School of Electrical and Computer Engineering, National Technical University of Athens, Greece  
 funded by THALES ALGONOW: *Algorithms of today: Social networks, data streaming, resource allocation and power management in communication and computing systems*
- JANUARY 2012 – JULY 2012 **Postdoctoral researcher**  
 Laboratoire d'Informatique de Paris 6, Université Pierre et Marie Curie (Paris 6), France  
 funded by ANR SPADES: *Servicing Petascale Architectures and Distributed Systems*
- MARCH 2011 – NOVEMBER 2011 **Software engineer**  
 IT Support Center for the Greek Army, Athens, Greece  
 note: part of mandatory military service for Greek citizens
- NOVEMBER 2009 – OCTOBER 2010 **Postdoctoral researcher**  
 Laboratoire Bordelais de Recherche en Informatique, Université de Bordeaux, France  
 funded by the CEPAGE team-project, INRIA Bordeaux–Sud–Ouest
- APRIL 2009 – JUNE 2009 **Research intern**  
 Laboratoire Bordelais de Recherche en Informatique, Université de Bordeaux, France  
 funded by the CEPAGE team-project, INRIA Bordeaux–Sud–Ouest

## 6. Teaching experience

Year	Course	Lecture (hours)	Teaching Assistant (hours)	Audience (students)	Level	University*
2016–2017	Distributed algorithms	–	14	15	Master-1	AMU
	Programming	–	40	27	1 <sup>st</sup> year	AMU
	Introduction to computer science and programming	–	20	31	1 <sup>st</sup> year	AMU
2014–2015	Communication and routing	3	–	21	Master-2	ENSEIRB
2006–2007	Computer programming	–	26	20	1 <sup>st</sup> year	ECE, NTUA
2005–2006	Computer programming	–	26	20	1 <sup>st</sup> year	ECE, NTUA
	Programming techniques	–	26	20	1 <sup>st</sup> year	ECE, NTUA
	Algorithms and complexity	13	–	≈100	Master-1	AMPS, NTUA
2004–2005	Computer programming	–	26	20	1 <sup>st</sup> year	ECE, NTUA
	Programming techniques	–	26	20	1 <sup>st</sup> year	ECE, NTUA
2003–2004	Computer programming	–	26	20	1 <sup>st</sup> year	ECE, NTUA
	Programming techniques	–	26	20	1 <sup>st</sup> year	ECE, NTUA

\* *Explanation of abbreviations:*

ECE, NTUA: School of electrical and computer engineering, National Technical University of Athens, Greece

AMPS, NTUA: School of applied mathematics and physical sciences, National Technical University of Athens, Greece

ENSEIRB: École nationale supérieure d'électronique, informatique, télécommunications, mathématique et mécanique de Bordeaux, France (ENSEIRB-MATMECA)

AMU: Aix-Marseille Université

## 7. Research projects

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2012 – 2015 **DISPLEXITY**

*Distributed Computing: computability and complexity*

Agence Nationale de la Recherche (ANR), France

Participants: LaBRI, LIAFA, IRISA

2012 – 2015 **ALGONOW**

*Algorithms of today: Social networks, data streaming, resource allocation and power management in communication and computing systems*

European Social Fund and Greek national resources

Participants: National Technical University of Athens, National and Kapodistrian University of Athens, Athens University of Economics and Business

2008 – 2011 **SPADES**

*Servicing Petascale Architectures and Distributed Systems*

Agence Nationale de la Recherche (ANR), France

Participants: LIP-INRIA, CERFACS, CNRS-IN2P3 LAL, INRIA Saclay, LIG, CC-IN2P3, MIS-UPJV, MYRIADS-INRIA Rennes

2007 – 2011 **ALADDIN**

*Algorithm Design and Analysis for Implicitly and Incompletely Defined Interaction Networks*

Agence Nationale de la Recherche (ANR), France

Participants: LIAFA, LaBRI, CEPAGE-INRIA Bordeaux, GANG-INRIA Rocquencourt

2006 – 2008 **Optimization problems in computer and communication networks**

*Theoretical foundations, design of efficient algorithms and development of experimental software*

General Secretariat of Research and Technology, Greece

Participants: National Technical University of Athens, National and Kapodistrian University of Athens, Athens University of Economics and Business

## 8. Scientific activities

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**International journal referee:** Theory of Computing Systems, Ad Hoc Networks, Internet Mathematics, Theoretical Computer Science, Optical Switching and Networking, Distributed Computing, Information Processing Letters, Discrete Applied Mathematics, Journal of Computer and System Sciences, Fundamenta Informaticae.

**International conference referee:** Computability in Europe (CiE), Workshop on Approximation and Online Algorithms (WAOA), International Workshop on Graph-Theoretic Concepts in Computer Science (WG), Balkan Conference in Informatics (BCI), International Symposium on Mathematical Foundations of Computer Science (MFCS), ACM SIGACT/SIGMOBILE International Workshop on Foundations of Mobile Computing (DIALM-POMC), International Symposium on Theoretical Aspects of Computer Science (STACS), International Conference on Fun with Algorithms (FUN), International Colloquium on Structural Information and Communication Complexity (SIROCCO), Latin American Theoretical Informatics Symposium (LATIN), International Conference on Algorithms and Complexity (CIAC), ACM Symposium on Principles of Distributed Computing (PODC), International Symposium on Distributed Computing (DISC), International Workshop on Combinatorial Algorithms (IWOCA), International Symposium on Algorithms and Experiments for Wireless Sensor Networks (ALGOSENSORS), International Conference on Principles of Distributed Systems (OPODIS), International Conference on Distributed Computing and Networking (ICDCN), International Colloquium on Automata, Languages, and Programming (ICALP), European Symposium on Algorithms (ESA), International Symposium on Fundamentals of Computation Theory (FCT).

**National conference referee:** Rencontres Francophones sur les Aspects Algorithmiques de Télécommunications (AlgoTel).

**Program Committee member:** 14<sup>th</sup> International Conference on Ad Hoc Networks and Wireless—special track on Distributed Computing with Mobile Agents (ADHOC-NOW 2015, Athens, Greece), 15<sup>th</sup> International Conference on Ad Hoc Networks and Wireless (ADHOC-NOW 2016, Lille, France), 14<sup>th</sup> International Symposium on Pervasive Systems, Algorithms, and Networks (I-SPAN 2017, Exeter, UK), 13<sup>th</sup> International Symposium on Algorithms and Experiments for Wireless Networks (ALGOSENSORS 2017, Vienna, Austria).

**Involvement in conference organization:** 1<sup>st</sup> and 2<sup>nd</sup> Athens Colloquium on Algorithms and Complexity (ACAC 2006–2007, Athens, Greece), 37<sup>th</sup> International Colloquium on Automata, Languages and Programming (ICALP 2010, Bordeaux, France), ANR DISPLEXITY project meeting (2014, Cognac, France), 24<sup>th</sup> International Colloquium on Structural Information and Communication Complexity (SIROCCO 2017, Porquerolles, France – member of organizing committee).

## 9. Languages

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Greek	<i>Native speaker.</i>
English	<i>Full professional proficiency</i> – 1997: Cambridge Certificate of Proficiency in English (CPE), grade A
French	<i>Professional working proficiency</i> – 1995: Diplôme d'Études en Langue Française: DELF 1 <sup>er</sup> degré (DELF B2), mention assez bien

OCTOBER 2014 – SEPTEMBER 2015: Formation “Français Langue Étrangère”, organized by INSERM Bordeaux and offered to the staff members of the University of Bordeaux.

## 10. Publications

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### International journals

- [J6] Evangelos Bampas, Leszek Gąsieniec, Nicolas Hanusse, David Ilcinkas, Ralf Klasing, Adrian Kosowski, and Tomasz Radzik: *Robustness of the rotor-router mechanism*. *Algorithmica* 78(3), 869–895 (2017).
- [J5] Evangelos Bampas, Andreas-Nikolas Göbel, Aris Pagourtzis, and Aris Tentes: *On the connection between interval size functions and path counting*. *Computational Complexity* 26(2), 421–467 (2017).
- [J4] Evangelos Bampas, Nikos Leonardos, Euripides Markou, Aris Pagourtzis, and Matoula Petrolia: *Improved Periodic Data Retrieval in asynchronous rings with a faulty host*. *Theoretical Computer Science* 608, 231–254 (2015).
- [J3] Evangelos Bampas, Davide Bilò, Guido Drovandi, Luciano Gualà, Ralf Klasing, and Guido Proietti: *Network verification via routing table queries*. *Journal of Computer and System Sciences* 81(1), 234–248 (2015).
- [J2] Evangelos Bampas, Aris Pagourtzis, George Pierrakos, and Katerina Potika: *On a noncooperative model for wavelength assignment in multifiber optical networks*. *IEEE/ACM Transactions on Networking* 20(4), 1125–1137 (2012).
- [J1] Evangelos Bampas, Aris Pagourtzis, and Katerina Potika: *An experimental study of maximum profit wavelength assignment in WDM rings*. *Networks* 57(3), 285–293 (2011).

## International conferences

- [C17] Evangelos Bampas, Shantanu Das, Dariusz Dereniowski, and Christina Karousatou: *Collaborative delivery by energy-sharing low-power mobile robots*. In Proceedings of ALGOSENSORS 2017–13<sup>th</sup> International Symposium on Algorithms and Experiments for Wireless Sensor Networks, Lecture Notes in Computer Science, Springer (to appear).
- [C16] Evangelos Bampas, Jurek Czyzowicz, Leszek Gąsieniec, David Ilcinkas, Ralf Klasing, Tomasz Kociumaka, and Dominik Pająk: *Linear search by a pair of distinct-speed robots*. In Proceedings of SIROCCO 2016–23<sup>rd</sup> International Colloquium on Structural Information and Communication Complexity (Jukka Suomela, ed.), Lecture Notes in Computer Science, vol. 9988, Springer, 2016, pp. 195–211.
- [C15] Evangelos Bampas and David Ilcinkas: *On mobile agent verifiable problems*. In Proceedings of LATIN 2016–12<sup>th</sup> Latin American Theoretical Informatics Symposium (Evangelos Kranakis, Gonzalo Navarro, and Edgar Chavez, eds.), Lecture Notes in Computer Science, vol. 9644, Springer, 2016, pp. 123–137.
- [C14] Evangelos Bampas, Jurek Czyzowicz, David Ilcinkas, and Ralf Klasing: *Beachcombing on strips and islands*. In Proceedings of ALGOSENSORS 2015–11<sup>th</sup> International Symposium on Algorithms and Experiments for Wireless Sensor Networks (Prosenjit Bose, Leszek Gąsieniec, Kay Römer, and Roger Wattenhofer, eds.), Lecture Notes in Computer Science, vol. 9536, Springer, 2015, pp. 155–168.<sup>1</sup>
- [C13] Evangelos Bampas, Christina Karousatou, Aris Pagourtzis, and Katerina Potika: *Scheduling connections via path and edge multicoloring*. In Proceedings of ADHOC-NOW 2015–14<sup>th</sup> International Conference on Ad-Hoc Networks and Wireless (Symeon Papavassiliou and Stefan Ruehrup, eds.), Lecture Notes in Computer Science, vol. 9143, Springer, 2015, pp. 33–47.
- [C12] Evangelos Bampas, Nikos Leonardos, Euripides Markou, Aris Pagourtzis, and Matoula Petrolia: *Improved Periodic Data Retrieval in asynchronous rings with a faulty host*. In Proceedings of SIROCCO 2014–21<sup>st</sup> International Colloquium on Structural Information and Communication Complexity (Magnus Halldórsson, ed.), Lecture Notes in Computer Science, vol. 8576, Springer, 2014, pp. 355–370.<sup>2</sup>
- [C11] Evangelos Bampas, Anissa Lamani, Franck Petit, and Mathieu Valero: *Self-stabilizing balancing algorithm for containment-based trees*. In Proceedings of SSS 2013–15<sup>th</sup> International Symposium on Stabilization, Safety, and Security of Distributed Systems (Teruo Higashino, Yoshiaki Katayama, Toshimitsu Masuzawa, Maria Potop-Butucaru, and Masafumi Yamashita, eds.), Lecture Notes in Computer Science, vol. 8255, Springer, 2013, pp. 191–205.
- [C10] Evangelos Bampas, Aris Pagourtzis, George Pierrakos, and Vasilis Syrgkanis: *Selfish resource allocation in optical networks*. In Proceedings of CIAC 2013–8<sup>th</sup> International Conference on Algorithms and Complexity (Paul G. Spirakis and Maria Serna, eds.), Lecture Notes in Computer Science, vol. 7878, Springer, 2013, pp. 25–36.
- [C9] Evangelos Bampas, Davide Bilò, Guido Drovandi, Luciano Gualà, Ralf Klasing, and Guido Proietti: *Network verification via routing table queries*. In Proceedings of SIROCCO 2011–18<sup>th</sup> International Colloquium on Structural Information and Communication Complexity (Adrian Kosowski and Masafumi Yamashita, eds.), Lecture Notes in Computer Science, vol. 6796, Springer, 2011, pp. 270–281.
- [C8] Evangelos Bampas, Jurek Czyzowicz, Leszek Gąsieniec, David Ilcinkas, and Arnaud Labourel: *Almost optimal asynchronous rendezvous in infinite multidimensional grids*. In Proceedings of DISC 2010–24<sup>th</sup> International Symposium on Distributed Computing (Nancy Lynch and Alexander Shvartsman, eds.), Lecture Notes in Computer Science, vol. 6343, Springer, 2010, pp. 297–311.

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<sup>1</sup>[C14] was invited to the special issue of *Theoretical Computer Science* with the best papers from ALGOSENSORS 2015 and ALGOSENSORS 2016.

<sup>2</sup>[C12] was invited to the special issue of *Theoretical Computer Science* with the best papers from SIROCCO 2014 (see [J4]).

- [C7] Evangelos Bampas, Leszek Gąsieniec, Ralf Klasing, Adrian Kosowski, and Tomasz Radzik: *Robustness of the rotor-router mechanism*. In Proceedings of OPODIS 2009–13<sup>th</sup> International Conference on Principles of Distributed Systems (Tarek Abdelzaher, Michel Raynal, and Nicola Santoro, eds.), Lecture Notes in Computer Science, vol. 5923, Springer, 2009, pp. 345–358.
- [C6] Evangelos Bampas, Leszek Gąsieniec, Nicolas Hanusse, David Ilcinkas, Ralf Klasing, and Adrian Kosowski: *Euler tour lock-in problem in the rotor-router model (I choose pointers and you choose port numbers)*. In Proceedings of DISC 2009–23<sup>rd</sup> International Symposium on Distributed Computing (Idit Keidar, ed.), Lecture Notes in Computer Science, vol. 5805, Springer, 2009, pp. 421–433.
- [C5] Evangelos Bampas, Aris Pagourtzis, George Pierrakos, and Vasileios Syrgkanis: *Colored resource allocation games (extended abstract)*. In Proceedings of CTW 2009–8<sup>th</sup> Cologne–Twente Workshop on Graphs and Combinatorial Optimization (Sonia Cafieri, Antonio Mucherino, Giacomo Nannicini, Fabien Tarissan, and Leo Liberti, eds.), École Polytechnique and CNAM, 2009, pp. 68–72.
- [C4] Evangelos Bampas, Andreas-Nikolas Göbel, Aris Pagourtzis, and Aris Tentis: *On the connection between interval size functions and path counting*. In Proceedings of TAMC 2009–6<sup>th</sup> Annual Conference on Theory and Applications of Models of Computation (Jianer Chen and S. Barry Cooper, eds.), Lecture Notes in Computer Science, vol. 5532, Springer, 2009, pp. 108–117.
- [C3] Evangelos Bampas, Aris Pagourtzis, George Pierrakos, and Katerina Potika: *On a non-cooperative model for wavelength assignment in multifiber optical networks*. In Proceedings of ISAAC 2008–19<sup>th</sup> International Symposium on Algorithms and Computation (Seok-Hee Hong, Hiroshi Nagamochi, and Takuro Fukunaga, eds.), Lecture Notes in Computer Science, vol. 5369, Springer, 2008, pp. 159–170.
- [C2] Evangelos Bampas, Aris Pagourtzis, and Katerina Potika: *Maximum profit wavelength assignment in WDM rings (extended abstract)*. In Proceedings of CTW 2008–7<sup>th</sup> Cologne–Twente Workshop on Graphs and Combinatorial Optimization (Giovanni Righini, ed.), University of Milan, 2008, pp. 35–38.
- [C1] Evangelos Bampas, Georgia Kaouri, Michael Lampis, and Aris Pagourtzis: *Periodic metro scheduling*. In Proceedings of ATMOS 2006–6<sup>th</sup> Workshop on Algorithmic Methods and Models for Optimization of Railways (Riko Jacob and Matthias Müller-Hannemann, eds.), OpenAccess Series in Informatics, vol. 5, Schloss Dagstuhl, 2006.

### National conferences

- [N1] Evangelos Bampas, Aris Pagourtzis, and Katerina Potika: *Maximum request satisfaction in WDM rings: Algorithms and experiments*. In Proceedings of PCI 2007–11<sup>th</sup> Panhellenic Conference on Informatics (Theodore S. Papatheodorou, Dimitris N. Christodoulakis, and Nikitas N. Karanikolas, eds.), Current Trends in Informatics, vol. A, New Technologies Publications, 2007, pp. 627–642.

### National conferences (abstract)

- [B2] Evangelos Bampas, Jérémie Chalopin, Shantanu Das, Jan Hackfeld, and Christina Karousatou: *Comment explorer un arbre inconnu avec des agents à énergie limitée ? (Maximal exploration of trees with energy-constrained agents)*. In Proceedings of AlgoTel 2017–19<sup>es</sup> Rencontres Francophones sur les Aspects Algorithmiques de Télécommunications, hal-01523302, HAL, 2017.
- [B1] Evangelos Bampas and David Ilcinkas: *Problèmes vérifiables par agents mobiles*. In Proceedings of AlgoTel 2015–17<sup>es</sup> Rencontres Francophones pour les Aspects Algorithmiques des Télécommunications, hal-01148475, HAL, 2015.

## Theses

- [T2] Evangelos Bampas: *Routing and wavelength assignment in optical networks*. Ph.D. dissertation PD2009–0055, School of Electrical and Computer Engineering, National Technical University of Athens, Greece, 2009.
- [T1] Evangelos Bampas: *Algorithmic techniques in complexity theory*. Diploma thesis DT2004–0171, School of Electrical and Computer Engineering, National Technical University of Athens, Greece, 2004 (in Greek).

## Oral communications without proceedings

- [O12] *Collaborative delivery by robots that can share energy*. ACAC 2017–Athens Colloquium on Algorithms and Complexity, Athens University of Economics and Business, Greece (August 2017). Joint work with Shantanu Das, Dariusz Dereniowski, and Christina Karousatou.
- [O11] *Collaborative delivery by robots that can share energy*. MAC 2017–Moving and Computing: Research meeting and school on distributed computing by mobile robots, La Maddalena, Italy (June 2017). Joint work with Shantanu Das, Dariusz Dereniowski, and Christina Karousatou.
- [O10] *Distributed decision and verification by mobile agents*. EURO 2016–28<sup>th</sup> European Conference on Operational Research, Poznań University of Technology, Poland (July 2016). Invited talk for the Graph Searching stream. Joint work with David Ilcinkas.
- [O9] *Beachcombing on strips and islands*. JSL 2016–Journées Scientifiques du LIF, L'Isle-sur-la-Sorgue, France (June 2016). Joint work with Jurek Czyzowicz, David Ilcinkas, and Ralf Klasing.
- [O8] *Mobile agents: Evacuation, beachcombing, and computability classes*. ANR DISPLEXITY project meeting, Arcachon, France (September 2015). Based on joint work with Jurek Czyzowicz, Leszek Gąsieniec, David Ilcinkas, Ralf Klasing, Tomasz Kociumaka, and Dominik Pająk.
- [O7] *On mobile agent verifiable problems*. ACAC 2015–10<sup>th</sup> Athens Colloquium on Algorithms and Complexity, National Technical University of Athens, Greece (August 2015). Joint work with David Ilcinkas.
- [O6] *Periodic data retrieval in asynchronous rings with a faulty host*. ANR DISPLEXITY project meeting, Cognac, France (September 2014). Joint work with Nikos Leonardos, Euripides Markou, Aris Pagourtzis, and Matoula Petrolia.
- [O5] *Improved periodic data retrieval in asynchronous rings with a faulty host*. Troisièmes journées du GT Complexité et Algorithmes (GDR-IM): Algorithmes naturels, LIAFA, Université Paris-Diderot, Paris, France (September 2014). Joint work with Nikos Leonardos, Euripides Markou, Aris Pagourtzis, and Matoula Petrolia.
- [O4] *Progress on periodic data retrieval in asynchronous ring networks with a faulty host*. MAC 2013–Moving and Computing: Research meeting on Distributed Computing by Mobile Robots, Ischia, Italy (July 2013). Joint work with Nikos Leonardos, Euripides Markou, Aris Pagourtzis, and Matoula Petrolia.
- [O3] *Robustness of the rotor-router mechanism*. 4<sup>e</sup> ANR ALADDIN project meeting, LaBRI, Université de Bordeaux, France (November 2009). Joint work with Leszek Gąsieniec, Ralf Klasing, Adrian Kosowski, and Tomasz Radzik.
- [O2] *On a non-cooperative model for wavelength assignment in optical networks*. ACAC 2008–3<sup>rd</sup> Athens Colloquium on Algorithms and Complexity, University of Athens, Greece (August 2008). Joint work with Aris Pagourtzis, George Pierrakos, and Katerina Potika.

- [O1] *Selfish wavelength assignment in multifiber optical networks*. AAAC 2008–1<sup>st</sup> Annual Meeting of the Asian Association for Algorithms and Computation, University of Hong Kong, Pokfulam, Hong Kong (April 2008). Joint work with Aris Pagourtzis, George Pierrakos, and Katerina Potika.