

Giordano Fusco

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RESEARCH INTERESTS

Cellular networks, wireless networks, ad-hoc networks, computer networks, green computing.

EDUCATION

- 2012 *Ph.D.* in Computer Science (expected May 2012), **Stony Brook University**,
Advisor Prof. Himanshu Gupta.
- 2005 *M.S.* in Computer Science, **University of Wisconsin-Madison**,
Advisor Prof. Eric Bach.
- 2002 *Laurea (M.S. equiv.)* in Computer Science (Magna cum Laude), **Università di Pisa, Italy**,
Advisor Prof. Marco Pellegrini.

Specialization Schools

- 2000 *Spring School on Combinatorics, DIMATIA*, **Charles University, Czech Republic.**

WORK, TEACHING and RESEARCH POSITIONS

- 2008–present **Stony Brook University**,
Research Assistant, Computer Science Department.
- 2010, 2011 **Alcatel-Lucent Bell Labs**,
Summer Intern, Networking and Network Management Research Center.
- 2007–2008 **Stony Brook University**,
Teaching Assistant, Computer Science Department.
- 2006–2007 **Oracle USA, Inc.**,
Member of Technical Staff, System and Stress Testing Group.
- 2003–2006 **University of Wisconsin-Madison**,
Teaching Assistant, Computer Science Department.
- 2002–2003 **Istituto di Informatica e Telematica del CNR, Pisa, Italy**,
(Institute for Informatics and Telematics of the National Research Council),
Research Assistant.

PUBLICATIONS

Journal Papers

1. **G. Fusco and H. Gupta**, *ε -Net Approach to Sensor k -Coverage*, in EURASIP Journal on Wireless Communications and Networking, volume 2010, article ID 192752, 2010.
2. **G. Fusco and E. Bach**, *Phase Transition of Multivariate Polynomial Systems*, in Mathematical Structures in Computer Science, volume 19, pages 9–23, 2009.
3. **M. Pellegrini and G. Fusco**, *Efficient IP Table Lookup via Adaptive Stratified Trees with Selective Reconstructions*, in ACM Journal of Experimental Algorithmics, volume 12, article 1.4, 2007.

Conference Papers

4. **G. Fusco, M. Buddhikot, H. Gupta, and S. Venkatesan**, *Finding Green Spots and Turning the Spectrum Dial: Novel Techniques for Green Mobile Wireless Networks*, in proceedings of the IEEE Symposium on Dynamic Spectrum Access Network (DySPAN), pages 613–617, 2011.
5. **G. Fusco and H. Gupta**, *Placement and Orientation of Rotating Directional Sensors*, in proceedings of the IEEE Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON), pages 332–340, 2010.
6. **G. Fusco and H. Gupta**, *ε -Net Approach to Sensor k -Coverage*, in proceedings of Wireless Algorithms, Systems, and Applications (WASA), LNCS, volume 5682, pages 104–114, 2009.
7. **G. Fusco and H. Gupta**, *Selection and Orientation of Directional Sensors for Coverage Maximization*, in proceedings of IEEE Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON), 2009.
8. **G. Fusco and E. Bach**, *Phase Transition of Multivariate Polynomial Systems*, in proceedings of Theory and Applications of Models of Computation (TAMC), LNCS, volume 4484, pages 632–645, 2007.
9. **M. Pellegrini and G. Fusco**, *Efficient IP Table Lookup via Adaptive Stratified Trees with Selective Reconstructions*, in proceedings of the European Symposium on Algorithms (ESA), LNCS, volume 3221, pages 772–783, 2004.

Technical Reports

10. **G. Fusco**, *A Comparison Among Different Strategies for Hierarchical Radiosity*, TR IMC-B4-02-2, Istituto di Matematica Computazionale del CNR, Pisa, Italy, 2002.

HONORS and AWARDS

- 2011 IEEE DySPAN 2011 travel grant, National Science Foundation, USA.
- 2008 Best TA award, Department of Computer Science, Stony Brook University.
- 2004 Computer Science Department Summer Research Assistantship, University of Wisconsin-Madison.
- 2002 Honorary prize for graduating with Magna cum Laude, University of Pisa, Italy.

SERVICE and AFFILIATIONS

Conference Reviewing: MobiCom09, SECON09, PODC10, SECON10, ICDCN11, MobiCom11, SECON11.

Journal Reviewing: Computer Networks, Transactions on Sensor Networks, Transactions on Parallel and Distributed Systems.

Affiliations: IEEE, IEEE ComSoc.

SELECTED TALKS

- 2010 *Placement and Orientation of Rotating Directional Sensors*, SECON '10.
- 2009 *ε -Net Approach to Sensor k -Coverage*, WASA '09.
- 2009 *Selection and Orientation of Directional Sensors for Coverage Maximization*, SECON '09.
- 2007 *Phase Transition of Multivariate Polynomial Systems*, TAMC '07.
- 2004 *Efficient IP Table Lookup via Adaptive Stratified Trees with Selective Reconstructions*, ESA '04.
- 2003 *Adaptive Stratified Trees for IP Table Lookup*, Mini-workshop on IP Lookup and Packet Filtering, IIT-CNR, Italy.