

WORKSHOP ALGO-NEXT

Algorithms for the Next Generation Internet and Web: Methodologies, Design, and Applications

<http://www.algonet.uniroma2.it/algonext/indexHome.html>

February 17-18, 2006

Bertinoro International Center for Informatics

<http://www.cs.unibo.it/bici/>

Friday, February 17

- 10:45-11:20 **Registration/Coffee** (Frangipane Room - Rocca)
- 11:20-11:30 **Opening** (Fresco Room - Rocca)
- 11:30-11:45 Report on the First Year of ALGO-NEXT
Giuseppe Italiano (University of Roma, "Tor Vergata")
- WorkPart 1: Advanced Methodologies for Internet and the Web**
- 11:45-12:00 First Year Results and Second Year Planning
Roberto Grossi (University of Pisa)
- 12:00-12:20 An Optimal Control Approach to Page I/O for Virtual Memory
Gianfranco Bilardi (University of Padova)
- 12:20-12:40 Cache-Oblivious Simulation of Parallel Programs
Francesco Silvestri (University of Padova)
- 12:40-13:00 Measure and Conquer: A Simple $O(2^{0.288n})$ Independent Set Algorithm
Fabrizio Grandoni (University of Roma "La Sapienza")
- 13:00-14:15 **Lunch** (Center Canteen)
- WorkPart 2: Internet Algorithmics: Design and Experiments**
- 14:15-14:30 First Year Results and Second Year Planning
Maurizio Patrignani (University of Roma Tre)
- 14:30-14:50 Distributed Protocols for Computing Optimal Swap Edges
Giuseppe Prencipe (University of Pisa)
- 14:50-15:10 Small Stretch Spanners on Dynamic Graphs
Paolo Franciosa (University of Roma "La Sapienza")
- 15:10-15:30 Active BGP-Probing
Giuseppe Di Battista (University of Roma Tre)

WorkPart 3: Web Algorithmics: Design and Experiments

- 15:30-15:45 First Year Results and Second Year Planning
Stefano Leonardi (University of Roma "La Sapienza")
- 15:45-16:05 XML Compression and Indexing
Paolo Ferragina (University of Pisa)
- 16:05-16:25 Data Stream Algorithms for Monitoring Large Webgraphs
Debora Donato (University of Roma "La Sapienza")
- 16:25-16:45 Using Graph Drawing to Search the Web
Walter Didimo (University of Perugia)
- 16:45-17:15 **Coffee** (Frangipane Room - Rocca)
- 17:15-19:00 **Open Problems and Possible Cooperations**
- 20:00-22:00 **Dinner**, *Ristorante Belvedere*, Via Mazzini 7, Bertinoro (0543 445127).

Saturday, February 18

- 07:00-08:30 **Breakfast** (Center Canteen)
- 08:30-11:00 **Future Directions** (Fresco Room - Rocca)
Chair: *Giorgio Ausiello* (University of Roma "La Sapienza")
- 11:00-11:30 **Coffee** (Frangipane Room - Rocca)
- 11:30-13:10 **Planning for Next Proposal**
Chair: *Giorgio Ausiello* (University of Roma "La Sapienza")
- 13:10-14:30 **Lunch** (Center Canteen)
- 14:30-16:00 **Summary and Conclusions**
Chair: *Giuseppe Italiano* (University of Roma "Torvergata")
- 16:00 **Adjourn**

General Information

Organizing Committee

Gianfranco Bilardi (University of Padova) and *Giuseppe Italiano* (University of Roma, "Torvergata").

Secretariat

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Workshop Site

University Residential Centre of Bertinoro Via Frangipane 6 Bertinoro (FC), ITALY

More specifically, the following buildings are involved in the activities:

- “Rocca” (Via Frangipane 6): Fresco room (talks), Frangipane room (coffee), computer room (24/7), office, guest rooms.
- “Cafeteria” (Via Frangipane 2): Center canteen (breakfast and lunch).

Directions

Please, consult the web page

http://www.centrocongressibertinoro.it/en/dove_siamo/index.htm

Parking is available, if you come by car.

If you arrive by train, the recommended stations are Forlì (coming from North) and Cesena (coming from South), both about 13 kilometers from the Centre. From either station, one can take a taxi to Bertinoro (approx. 25 Euro). A third station, Forlimpopoli, is closer but (a) most trains do not stop there and (b) taxis are not available near the station.

Accommodations & Meals

Registration includes accommodations at the workshop site for the night of February 17 as well as all meals, from the lunch of February 17 to the lunch of February 18. Special meal requirements (*e.g.*, vegetarian) for the dinner of the 17th should be made known to the secretariat at registration.

Registration

Registration will be on site. The registration fee is Euro 120 for single room accommodation and Euro 105 for double room accommodation. Major credit cards, cash, and checks in euros drawn on Italian banks are acceptable forms of payment.