

GABRIELA GOUVEIA GUEDES LOUREIRO RUBERG

D.Sc. student

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On leave from Central Bank of Brazil (gabriela.ruberg@bcbr.gov.br).

RESEARCH INTERESTS

Semi-structured databases, and XML; data integration, mediated systems, and Web services; query processing in data integration systems; XML query languages; XML query translation and decomposition; cost-based query optimization; acquisition and publication of database statistics in distributed, heterogeneous systems; distributed evaluation of path expressions; and XML storage techniques.

EDUCATION

- ❖ M.Sc. in Computer Science and Systems Engineering at the Federal University of Rio de Janeiro - UFRJ/COPPE, Brazil, with emphasis in Database Systems (1999-2001). Master thesis: "A Cost Model for Query Processing in Distributed Object Databases ", advised by Marta Mattoso.
- ❖ B.Sc. in Computer Science at the Federal University of Paraíba - UFPB, Brazil (1992-1997). Graduation project: "An Object-based Warehouse of Cellular Communications Data", advised by Gustavo Motta.
- ❖ Technician in Electronics at the Federal Technical School of Paraíba - ETEFPb, Brazil (1989-1993).

PUBLICATIONS

- ❖ Nicolaas Ruberg, Gabriela Ruberg, and Marta Mattoso: "DIG: Providing Costs and Statistics for Distributed Query Processing", Proceedings of XVII Brazilian Symposium on Databases, in Portuguese, Brazil, October 2002.
- ❖ Humberto Vieira, Gabriela Ruberg, and Marta Mattoso: "XVerter: XML Storage and Query Processing in DBMSs", Proceedings of XVII Brazilian Symposium on Databases, in Portuguese, Brazil, October 2002.
- ❖ Gabriela Ruberg, Fernanda Baião, and Marta Mattoso: "Estimating Costs of Path Expression Processing in Distributed Databases", 13th International Conference on Database and Expert Systems Applications (DEXA 2002), LNCS 2453, Springer LINK, France, September 2002.

- ❖ Gabriela Ruberg, José T. Leite, Silvestre Ferreira, and Fábio Silva: "Managing Access Restrictions in Hospital Environments", Proceedings of the II Brazilian Forum on Biomedical Science and Technology, in Portuguese, Brazil, September 1996.

TECHNICAL REPORTS

- ❖ Gabriela Ruberg, Marta Mattoso, and Marco A. Casanova: "A Cost-based Strategy for Optimization of Path Expressions in Distributed Semistructured Databases", D.Sc. thesis proposal (in Portuguese), COPPE/UFRJ, Brazil, February 2003.
- ❖ Marta Mattoso, Gabriela Ruberg, André Victor, and Fernanda Baião: "Object-Oriented Query Processing", Technical Report ES-547/01 (in Portuguese), COPPE/UFRJ, Brazil, April 2001.

PROFESSIONAL ACTIVITIES

- ❖ System analyst, and database administrator at the Department of Open-Market Operations of the Central Bank of Brazil (fall 2000- present). Main project participation: "The Restructuring Project of the Brazilian Payment System".
- ❖ Database administrator, and support analyst at the Information and Technology Solutions of Brazilian Social Insurance - Dataprev (1998-2000).
- ❖ System analyst, and telecommunication technician at the Telecommunications of Paraíba S/A (1996-1997).
- ❖ Undergraduate scholarship in the Biomedical Engineering Unit (NETEB) at the Federal University of Paraíba, project: "Smart Cards in Medical Applications" (1993-1996).
- ❖ External referee: SBBD 2002, and CLEI 2002.

DISTINCTIONS

- ❖ Prize "Young Researcher 1996", category "Undergraduated Studies of Engineering", at the IV Workshop of Undergraduated Research of the Federal University of Paraíba, with the paper "Controlling Access Authorization in Hospital Environments" (1996).

LINGUISTIC ABILITIES

- ❖ English, French, and Portuguese (native).

SKILLS

- ❖ Oracle (DBMS administration, Designer, and Application Server), Unix administration (SCO, AT&T, and AIX), Linux, PL/SQL, C, C++, Perl, Java, shell script, Delphi Pascal, XML, XQuery, XPath, XLink/XPointer, OpenSSL, Apache, and Sambar.