



Number 5

Universidade do Minho, Braga

March 28, 2007

## Interview with Don Batory



Yesterday's CC invited talk by Don Batory was on "Program Refactoring, Program Synthesis, and Model-Driven Development". Don proposed a new, uniform way of looking at metaprogramming technologies, using tools from Algebra and Category theory.

**ETAPS daily** Can you tell us the story of how you became interested in the intersection of these three areas?

**D.B.** I used to work on databases, in particular on extensible databases. I realized how you could build databases from components, long before anyone was looking at architectures. Unfortunately, the database community was not interested in this at all; they thought of it as Software Engineering, and in fact that was how I became interested in Software Engineering, to see if my ideas could be applied. If you look at a problem long enough and you represent programs mathematically, you start to realize that transformations are related to lots of other things. So there has to be something happening at an underlying level.

**ETAPS daily** Many mathematically-oriented people are applying algebraic tools in the context of component-based software architectures, but most of them do not have the insights from Software Engineering that you have. Since you seem to be coming in the opposite direction, would it be interesting to join forces and try to find out where both worlds meet?

**D.B.** Yes, that's precisely what I expect from events like this, to reach out to those people. There must be so many results that can be applied!

**ETAPS daily** You were introduced as someone with an interest in cactuses. Can you tell us a little bit about that?

**D.B.** It's a hobby of mine. I grow cactuses in my backyard, I have several hundreds of species.

## Day Programme

### 09:00 - 10:10 SESSION 1

- **Unifying Invited Talk**

(Chair: Perdita Stevens, room: Enabler-Wipro)

There and Back Again: Lessons Learned on the Way to the Market

Rance Cleaveland (University of Maryland/Fraunhofer USA Center for Experimental Software Engineering and Reactive Systems Inc., USA)

### 10:10 - 10:30 Coffee

### 10:30 - 12:30 SESSION 2

- **ESOP** - Models and Languages for Web Services

(Chair: Matthew Hennessy, room: Multicert)

- **FASE** - Model Driven Development

(Chair: Maura Cerioli, room: Unicre)

- **FOSSACS** - Automata

(Chair: Markus Mueller-Olm, room: Cisco)

- **TACAS** - Abstraction Refinement

(Chair: Shmuel Katz, room: Enabler-Wipro)

### 12:30 - 14:30 Lunch

### 14:30 - 15:40 SESSION 3A

- **TACAS** - Invited Talk

(Chair: Rance Cleaveland, room: Enabler-Wipro)

Verifying Object-oriented Software: Lessons and Challenges

K. Rustan M. Leino (Microsoft Research, USA)

### 15:40 - 15:50 Break

### 15:50 - 16:50 SESSION 3B

- **ESOP** - Verification

(Chair: Pierpaolo Degano, room: Multicert)

- **ESOP** - Term Rewriting

(Chair: Don Sannella, room: Unicre)

- **FASE** - Tool Demonstrations

(Chair: José Nuno Oliveira, room: Cisco)

- **TACAS** - Message Sequence Charts

(Chair: Nina Amla, room: Enabler-Wipro)

### 16:50 - 17:15 Coffee

### 17:15 - 18:45 SESSION 4

- **ESOP** - Language Based Security

(Chair: Joshua Guttman, room: Multicert)

- **ESOP** - Logics and Correctness Proofs

(Chair: Walid Taha, room: Unicre)

- **FASE** - Distributed Systems

(Chair: Holger Giese, room: Cisco)

- **TACAS** - Automata-Based Model Checking

(Chair: Daniel Kroening, room: Enabler-Wipro)

## Social Programme

### Banquet at Paço dos Duques (tickets required)

19:00 Departure From Theatro Circo to Guimarães

### Paço dos Duques and the Castle of Guimarães

The Palace of the Dukes of Braganza (*Paço dos Duques de Bragança*) in Guimarães, was built around 1420 for a bastard son of king John I of Portugal, the future Duke of Bragança. The construction of the palace coincided with the consecration of his marriage, when he came to live in Guimarães.



The 16c marked the beginning of the palace's ruin, which went worse and worse during the 19c, when the palace served as a quarry for the neighboring population. Re-building (started in 1937) gave the palace the European look that it has today.

The *Paço dos Duques* is classified as National Heritage since 1910. Many tapestries and porcelains are among the various articles of workmanship on display in the palace. Among other 17c paintings, visitors will find a portrait of Catarina de Bragança, daughter of the eighth duke of Bragança and Queen consort of King Charles II of England.

### The Castle of Guimarães

The Castle of Guimarães was ordered to be built by Dona Mumadona Dias in the 10c, in order to defend her monastery from Muslim and Norman attacks. Count Dom

Henrique (to whom the Portuguese county of Portucale had been granted) chose Guimarães to establish his court. The fortress, then over a century old, needed urgent renovation. The nobleman chose to destroy what remained of Mumadona's construction, while extending the area of the castle and adding two new doors. The castle continued to be the official royal residence until the 12c, when the royal family moved to Coimbra and then to Lisbon.



In 1881 the *Diário do Governo* (Government Official Journal) listed the Castle of Guimarães as the most unique historic monument in the whole region of Minho. However, the castle had to wait until 1910 to be formally classified as National Heritage, and until 1937 for its restoration to start. It was reopened on the symbolic date of June 4, 1940, when Portugal's 800 years were celebrated.

### Shuttle Information

| Day     | Time          | From                       | To                       |
|---------|---------------|----------------------------|--------------------------|
| Wed, 28 | 8:15<br>19:00 | Bom Jesus<br>Theatro Circo | Theatro Circo<br>Banquet |

### Walk Around the City Centre

Tomorrow at 18:30. Meeting point: Theatro Circo

### Weather

Showers / wind, 13°/7° C.

## Sponsor of the Day: Multicert

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The company has its headquarters in Lisbon, and a branch office in Porto. For more information visit the website [www.multicert.com](http://www.multicert.com) or contact [info@multicert.com](mailto:info@multicert.com).