



The 1st IFATIS Workshop

Bologna, October 28-29, 2002

EC-Project IFATIS (*Intelligent Fault Tolerant Control in Integrated Systems*) is partly funded by the European Commission in the IST programme 2001 of the 5th EC framework programme. The IFATIS consortium consists of six universities and four enterprises from six countries. The main objective of IFATIS is the development of advanced fault diagnosis and fault tolerant control technologies, tools and their applications in different industrial sectors.

The aim of the 1st IFATIS workshop is to present and to evaluate the results achieved in IFATIS since its start in January, 2002. It will provide a platform for the discussion on the current development and trends in the field of FDI/FTC and its possible influence on the further progress of IFATIS.

The 1st IFATIS workshop offers a two-days programme:

- the IFATIS workshop on the 1st day, which is open for all participants
- IFATIS-day on the second day, which is an internal meeting of IFATIS consortium.

The 1st IFATIS workshop is organised by the IFATIS project management board and University of Bologna. The local organiser:

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For further information, please visit <http://ifatis.uni-duisburg.de/>

Final program

IFATIS Workshop - Monday 28

10.30 – 10.45	Welcome to the participants Prof. Claudio Bonivento, DEIS Director
10.45 – 11.30	“Handling Modelling Uncertainty in FDI systems” Prof. Paul Frank, University of Duisburg
11.30-12.15	“The Geometric Approach in FDI of nonlinear systems” Prof. Alberto Isidori, Università di Roma “La Sapienza”
12.15-13.00	“Fault Detection, Isolation and Accomodation for Nonlinear Uncertain Dynamic Systems: an On-line Neural Approximation Approach” M.M. Polycarpou and Thomas Parisini Prof. Thomas Parisini, Università di Trieste
13.00-14.30	Lunch
14.30-15.10	“An Overview of Fault Tolerant Solutions for Railway Control Systems” Ing. Diego Marino, Alstom Transport Italia
15.10-15.50	“The Measure of Automatic Protection Switching (APS) in a SONET/SDH Network Advanced Telecom Systems,” Dott. Massimo Bruni, Advanced Telecom System
15.50-16.20	Coffee Break
16.20-16.50	“The Intelligent Sensor Platform, the Central Sensor Monitoring Unit of Integrated Automotive Systems” Dr. Dietmar Arndt, Robert Bosch GmbH
16.50-17.20	“Development of an Open R&D Platform for Fault Tolerant Robot Control Systems” Dr. Kuntze, H.-B., Fraunhofer Institute
17.20-17.50	“Applications of FTC to Water Treatment Processes” Dr. Issy Caffor, YorkShire Water
17.50-18.20	“IFATIS Tool, the case tool for Fault Tolerant System Design” Ing. Reine Gros, TNI

IFATIS Day - Tuesday 29 (Only for IFATIS members and reviewers)

09.00-09.20	Project progress report, Steven Ding
09.20-09.40	Presentation of WP2, Michel Kinnaert
09.40-10.00	Presentation of WP3, Dominique Sauter
10.00-10.20	Presentation of WP4, Matjaz Colnaric
10.20-10.40	Presentation of WP5, Uwe Maier
10.40-11.00	Presentation of WP6, Lorenzo Marconi
11.00 – 11.15	Coffee Break
11.15-11.30	Presentation of WP8 (Achieved Results), Arndt Dietmar
11.30-11.40	Presentation of WP10/WP11, Steven Ding
11.40-12.00	“Fault Detection and Isolation in Dynamic Systems using Principal Component Analysis -Application to the IFATIS three-tank system” Stéphane Léger, University of Nancy (WP3)
12.00-12.20	“Issues in loop monitoring” Lhoussain El Bahir, University of Brussels (WP3)
12.20-12.40	“Fault detection and isolation in robot manipulators” Raffaella Mattone, University of Rome “La Sapienza” (WP3)
12.40-13.00	“Performance-based Switching for Fault Tolerant Control” Joseph J. Yamé, University of Brussels (WP3)
13.00-14.30	Lunch
14.30-14.50	“Implicit Fault Tolerant Control for Induction Machines” Lorenzo Marconi, University of Bologna (WP3)
14.50-15.10	“Design of a data base for the resource management and application to a benchmark system” I. C. Chihai, University of Duisburg (WP5)
15.10-15.30	“Fault tolerant estimation of vehicle lateral dynamics” H.-G. Schulz, University of Duisburg (WP8)
15.30-15.50	“Some solutions in the implementation of the fault-tolerant hardware platform” Domen Verber, University of Maribor (WP4)
15.50-16.10	“Design of FTC Systems with Reliability Specifications” A. Paoli, University of Bologna (WP6)
16.10-16.30	Coffee Break
16.30-17.30	In parallel: Reviewer Meeting and Project Coordination Meeting
17.30	Concluding remark: EC project officer: Dr. Konstantellos

Workshop information

Workshop location:

The workshop will be held in Aula Prodi, San Giovanni in Monte. Presentation room is Aula Prodi, while lunches and coffee breaks will be located in the cloister next to Aula Prodi (see pictures attached).

Registration fee:

The attendance to the workshop is free. For the logistical reason, a registration is needed. Please follow the registration procedure mentioned below.

Registration:

Information about the workshop registration is available on the web site

<http://ifatis.uni-duisburg.de/> in the section “News and Events”.

You can also send an email to

lmarconi@deis.unibo.it

and mention:

- Name-Surname:
- Affiliation:
- IFATIS member: YES or NOT
- If IFATIS Member: Attendance to the Social Dinner
- Attendance: First Day, Second Day, Both Day

Local Accommodation:

Please find below a list of possible hotels for your stay in Bologna. If you need assistance please refer to the local contact.

Local Information:

Information about Bologna and the transportations can be found at

www.comunebologna.it (General information about Bologna)

<http://unknown:guest@www.urp.unibo.it:591/strade/ricerca.htm> (Interactive map)

<http://www2.unibo.it/avl/student/bomappa.pdf> (Pdf file)

<http://www.bologna-airport.it> (Bologna airport)

Local Contact:

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List of Hotels

- 1) Hotel Al Cappello Rosso, Via de' Fusari, 9 - Tel.0039 051 261891 (****)
Single Room Euro 115.00, Double Room Euro 160.00
<http://www.alcappellorosso.it/>
- 2) Best Western - Hotel S.Donato, Via Zamboni, 16 - Tel 0039 051 235395 (****)
Single Room Euro 104.00, Double Room Euro 148.00
http://www.bestwestern.it/sandonato_bo/
- 3) Hotel Internazionale, Via Indipendenza, 60 - Tel.0039 051 245544/245417 (****)
Single Room Euro 105.00, Double Room Euro 150.00
<http://www.book-a-hotel-in-bologna.com/it/hotel/hotels/internazionale/>
- 4) Corona D'Oro, Via Oberdan, 12 - Tel. 0039 051 236456 (****)
Single Room Euro 129.00, Double Room Euro 181.00
<http://corona.hotel-bologna.net/>
- 5) Grand Hotel Elite, Via a. Saffi, 36 – Tel. 0039 051 645 9011 (****)
Single Room Euro 91.00, Double Room Euro 125.00
<http://www.hotelelite.it/>
- 6) Hotel Touring, Via De' Mattuiani 1/2 - Tel. 0039 051 584305 (***)
Single Room Euro 88.00, Double Room Euro 148.00
http://www.venere.it/emilia_romagna/bologna/touring/
- 7) Hotel Commercianti , Via de' Pignattari, 11 - Tel.0039 051 233052 (***)
Single Room Euro 114.00, Double Room Euro 165.00
<http://commercianti.hotel-bologna.net/>
- 8) Residence Galaxy, Via M. Fantin, 15 – Tel. 0030 051 4165911
Single Room Euro 62.00, Double Room Euro 83.00
<http://www.galaxybo.it>
- 9) Residenza San Giovanni in Monte, Via De Chiari, 8 - Tel. 0030 051 238972
Single Room Euro 42.00, Double Room Euro 47.00
<http://www.ceur.it/collegio-erasmus/index.htm>

Pictures Gallery

Aula Prodi



Cloister



Workshop location map

