

CV of Pascal Berruet

Pascal Berruet is an Associate Professor at the UBS, where he is in charge of studies of a Master in Production Management. Born in Orléans (France) in 1970, he obtained in 1994 the Engineer Diploma from the Ecole Centrale de Lille (French "Grande Ecole") and the Master Degree in Automatic Control and Industrial Computer Sciences from the University of Lille. He obtained a PhD degree from the University of Lille in 1998. Dr. Berruet's belongs to the SYSREC team of the LESTER laboratory. His research areas are Supervision, Analysis, Simulation and Automatic Control Generation of Reconfigurable Flexible Manufacturing Systems. Within the framework of the manufacturing and transport systems' reconfiguration, he is currently working on system and control analysis, reconfiguration algorithms and automatic partitioning of control on Programmable Logic Controllers.

Current position:

Associate Professor at the LESTER laboratory (CNRS FRE 2734)
Head of project team Reconfigurable Discrete Event Systems

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Scientific Activities

Reconfigurable Systems

Present works address:

1. Description and analysis of a reconfigurable system
2. Safe control code generation in the conception process to face disturbances online, using supervision and control techniques.

Targeted systems: reconfigurable manufacturing systems (RMS) and assistance systems for disabled people.

SimSED, software for modeling and simulating RMS, has been conjointly developed with the Sydel company.

Conference Committees

IEEE SMC (since 2005)

ISC (since 2005)

ESM (since 2005)

CESA 2003 (Chairman)

Sessions organization

"Reconfiguration for Complex Discrete Event Systems" CESA 2006

"Reconfiguration of flexible manufacturing systems" IMACS world congress 2005

"Monitoring and supervision of flexible manufacturing systems" IEEE SMC 2002

Grant Projects

"Reconfigurable Discrete Event Systems", 2007 (principal investigator)

"Piloting of safe embedded systems", 2006-2009 (principal investigator)

"Smart technical assistance", 2006-2007

"Design of reactive systems", 1999-2002

Others

CNRS specific action member (AS INTICA)

CNRS French workgroup member (GDR MACS)

Reviewer for Journal of Intelligent Manufacturing, IEEE Transactions on Robotics and Automation, Mathematics and Computers in Simulation, International Journal of Flexible Manufacturing Systems, International Journal of Manufacturing Technology and Management