

Ing. Květoslav Belda, Ph.D.

EDUCATION

- 2006** **Ph.D. - Dissertation:** Control of Parallel Robotic Structures Driven by Electromotors
- 2002-** Second postgraduate education:
2005 Academy of Sciences of the Czech Republic (AS CR),
Institute of Information Theory and Automation (UTIA),
Department of Adaptive Systems;
The Czech Technical University in Prague (CTU),
Faculty of Electrical Engineering (FEE),
Department of Mechanics and Materials;
Faculty of Mechanical Engineering (FME),
Department of Mechanics, Division of Mechanics of Bodies
Theme: Control of Robotic Systems Driven by Electromotors
- 2003** **Ph.D. - Dissertation:** Control of Redundant Parallel Structures of Robotic Systems.
- 1999-** Postgraduate education:
2002 Academy of Sciences of the Czech Republic (AS CR),
Institute of Information Theory and Automation (UTIA),
Department of Adaptive Systems;
The Czech Technical University in Prague (CTU),
Faculty of Mechanical Engineering (FME),
Department of Instrumentation and Control Engineering,
Division of Automatic Control and Engineering Informatics;
Department of Mechanics, Division of Mechanics of Bodies
Theme: Control of Systems with More Inputs than Outputs
- 1999** **Ing. (M.Sc.) - Diploma work:** Cautions Strategy in LQ Adaptive Controllers
- 1994-** Undergraduate education:
1999 The Czech Technical University in Prague (CTU),
Faculty of Mechanical Engineering (FME),
Department of Instrumentation and Control Engineering,
Division of Automatic Control and Engineering Informatics
- 1994** **School-leaving exam**
(distinction; subjects: Mathematics, Czech, Engineering Technology, Operation and Structure of Machines)
- 1990-** High technical school BETLÉMSKÁ (Betlémská, Praha 1)
1994

PROFESSION

Professional interests: Model-based Control Design, Parallel Robotic Structures for Machine Tools, Industrial Robotics.

1999-now Researcher
Academy of Sciences of the Czech Republic (AS CR),
Institute of Information Theory and Automation (UTIA),
Department of Adaptive Systems

Teaching activities: At Czech Technical University in Prague, Faculties [FEE](#) and [FME](#).
and at The College of Polytechnics Jihlava [CPJ](#).

Proposals for possible semestral projects, theses, dissertations: [click here!](#)

List of the activities:

2021- Mechatronic Systems and Robotics (CPJ)
2018- Basics of Mechatronics (CPJ)
2018-2021 Basics of Robotics (CPJ)
2007-2008 Technical Documentation (FEE)
2006 Robots in Practice (FEE)
2002-2004 Technical Documentation (FEE)
2000-2002 Mechanics - Statics, Kinematics and Dynamics (FME)
1999-2000 Computer Use Fundamentals (FME)

PROJECTS

- 2006-2008** Model-based Control of Mechatronic Systems for Robotics (GA ČR 102/06/P275)
project leader: K. Belda
- 2005-2007** Methods of Predictive Control, Algorithms and Implementation (GA ČR 102/05/0271)
project leader: J. Böhm
- 2004** Implementation of Control in Redundant Parallel Robotic Structures (CTU IG 0406413)
- 2003-2005** Redundant Drives and Measurement for Hybrid Machine Tools (GAČR 101/03/0620)
project leaders: M. Valášek, J. Böhm
- 2002** The Study of Properties of Independent (Decentralized) and Centralized Control of Redundant Parallel Robots (CTU IG 0204512)
- 2001** The Direct Kinematics for Parallel Robots (CTU IG 300104412)
- 1999-2001** Redundant Parallel Robots and Their Control (GAČR 101/99/0729)
project leaders: M. Valášek, J. Böhm