



SOFTWARE PARA SISTEMAS CIBERFÍSICOS

A NEW MODEL OF SUPPORT FOR **INNOVATION**

Research, development and innovation funding

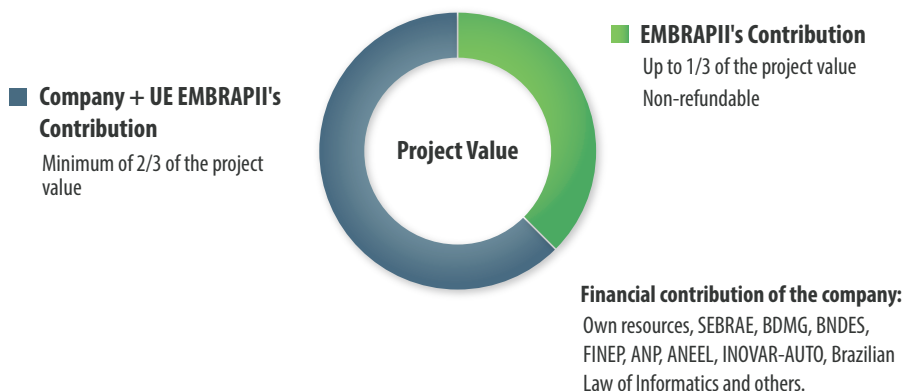
Shared risks and costs

Greater agility and flexibility in operations

Strong technological competence and business competitiveness

EMBRAPII - Brazilian Company of Research and Industrial Innovation

The EMBRAPII Organization leverages on the competence of established research, science and technology institutions to fund research and development (R&D) projects, to substantially reduce costs, risk and time demanded by innovation processes, improving the success rate. Total project cost is shared with both EMBRAPII and the EMBRAPII Unit, whose leading technological and scientific expertise may significantly shorten the path connecting ideas to successful realizations of novel processes and products.



BENEFITS FOR COMPANIES

- ✓ Reduced cost and risk
- ✓ Agile contracting and fast project roll out
- ✓ Custom development of innovative products and/or processes
- ✓ Financial disbursement of EMBRAPII Unit contribution without bureaucracy
- ✓ Intellectual Property negotiated directly with the EMBRAPII Unit
- ✓ Sound technological competence
- ✓ Professional project management practices
- ✓ Confidentiality assured
- ✓ Flexibility in supporting innovation

EMBRAPII UNIT DCC / UFMG

Cyber-Physical Systems is the main area of competence of the EMBRAPII Unit (UE) of the Computer Science Department of the Federal University of Minas Gerais. We have a long term, solid experience in developing computing platforms to tackle physical, virtual and social components at different scales and supported by diverse, state-of-the-art technologies in all human activities. For over 40 years we have successfully developed systems for several sectors / segments such as ICT and Electronics, Telecom, Steel and Metallurgy, Mining, Automotive and Transportation, Logistics, Health, Agribusiness, Energy, Oil and Gas.

LINES OF ACTIVITY

- Prospecting and Monitoring of Data
- Information Management
- Mechanisms for Decision Making and Actuation

DATA

Aggregation, acquisition, characterization, collection, filtering and data fusion

INFORMATION

Spatial analysis, exploratory analysis, visual analysis, storage, geocoding, management, integration, treatment and transformation

KNOWLEDGE

Descriptive modeling, predictive modeling, prescriptive modeling, optimization and simulation

INNOVATIVE PRODUCTS AND SOLUTIONS

DIFFERENTIALS OF THE COMPUTER SCIENCE DEPARTMENT – UFMG

- Reference in research and projects related to Cyber-Physical Systems
- Top ranked graduate program – Level 7 (highest) in CAPES
- Team of renowned researchers with high level of scientific and technological productivity (42 CNPq researchers)
- Well trained technical and administrative staff
- Agile system development process based on the best practices in the market
- Laboratories equipped with state-of-the-art and advanced technology
- Professionals certified by PMI (Project Management Institute)
- Consolidated track record in university-industry collaboration by the delivery of outstanding results
- Aggregation of technological value to existing solutions and products
- Creation of innovative solutions and products

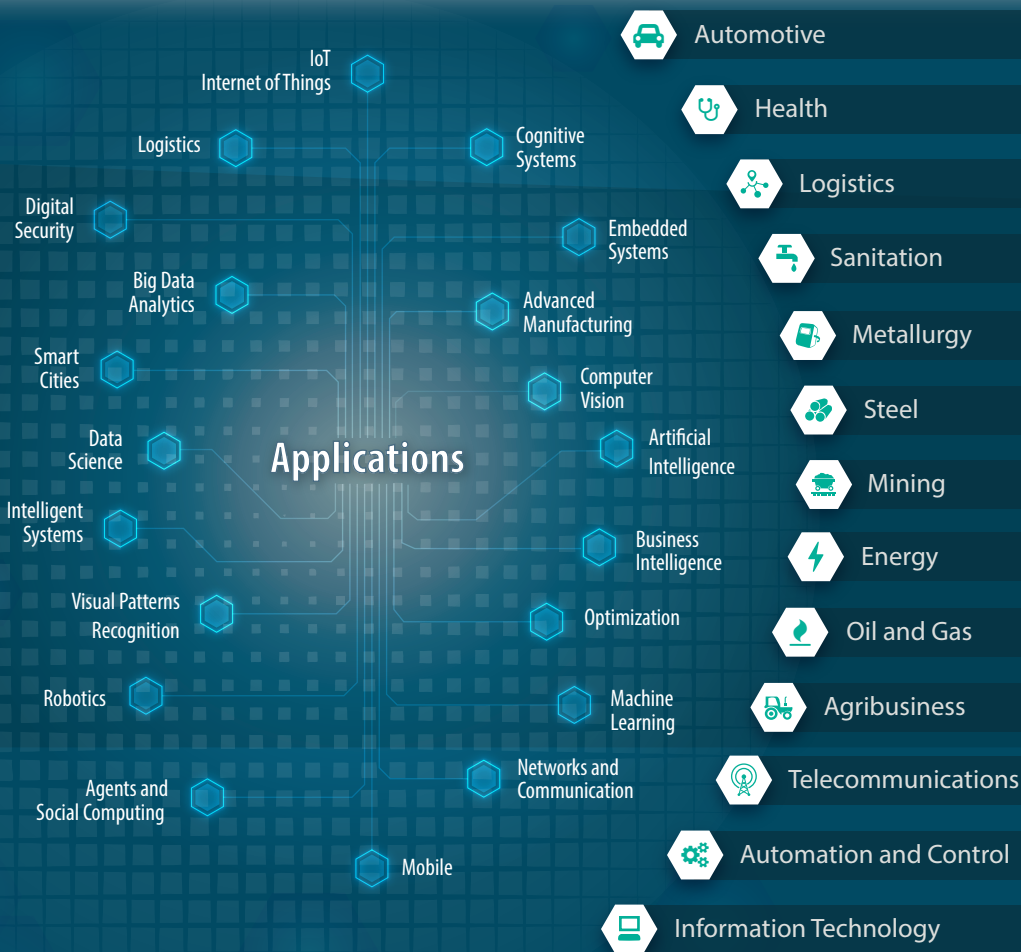
COMPUTER SCIENCE DEPARTMENT
DCC-UFMG

Since its foundation in 1976, the Computer Science Department – DCC-UFMG has focused on the training of human resources inextricably linked with R&D activities. Graduates and other professionals have thus been exposed to real world problems of the Information and Communication Technology (ICT) industry and other industrial areas through the cooperative execution of R&D projects.

Previous partnership with companies include Aperam, Gerdau Açominas, Cemig, Cenibra, Fiat, IBM, Vallourec, Mendes Júnior, Serpro, Telebras, Telemig, Usiminas, LG, Samsung, HP, Intel, Microsoft, Petrobras, among others, which are part of our portfolio of R&D projects with the industry.

The DCC-UFMG is accredited by CATI / MCTI to execute projects with resources from the Information Technology Art.

The UE-DCC/UFMG works in the area of Software for Cyber-Physical Systems with applications in several industrial segments.





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Please contact us to discuss partnerships that
will foster the development of innovative
solutions and products for your company.

EMBRAPII UNIT DCC/UFMG
Software for Cyber-Physical Systems

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