



University of Hradec Králové
Faculty of Informatics and Management

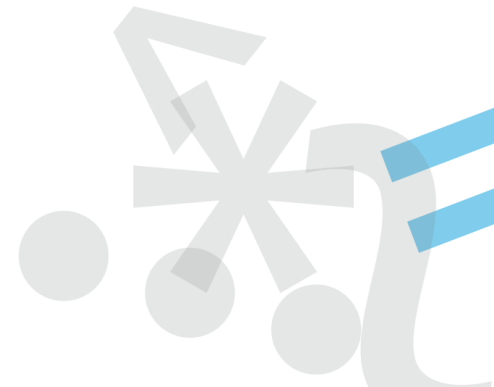
FIM - Professional and Research Profile

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vice-dean



Contents

- = Where are we from?
- = ICT study programmes
- = Research activities
- = Faculty & IQRF



Hradec Králové

- = Regional city of East Bohemia
- = University town
- = Three public universities
- = More than 10k students
- = City of Biomedical Research

FIM UHK

- = Founded in 1993
- = Approx. 2000 students



Applied Informatics Information (and Knowledge) Management

- = Both programmes offer B.Sc. M.Sc. and Ph.D. degrees
- = They follow main research areas of faculty



1. Intelligent Systems and Approaches for Managerial and Other Human Activities Support (ISYS)
2. Smart Solutions in Ubiquitous Computing (SMART)
3. Cognitive Processes and their Advanced ICT Support (COGN)



- = Ambient Assisted Living
- = Ambient Intelligence and Smart Environments
- = Artificial Intelligence and Knowledge-Based Systems
- = Autonomous Systems for Decision Support
- = Computer Networks and Security
- = Decision Support Systems
- = Information Management
- = Intelligent Autonomous Systems
- = Knowledge Management
- = Mathematical Methods for Decision Support and Optimization
- = Multi-Agent Systems, Agent-Based Models, and Applications
- = Smart Offices and Other Workplaces
- = Social, Economic, and Ethical Implications of Advanced Technologies
- = Systems Theory, Systems Engineering, and Systems Dynamics
- = Wireless Sensor Networks Applications



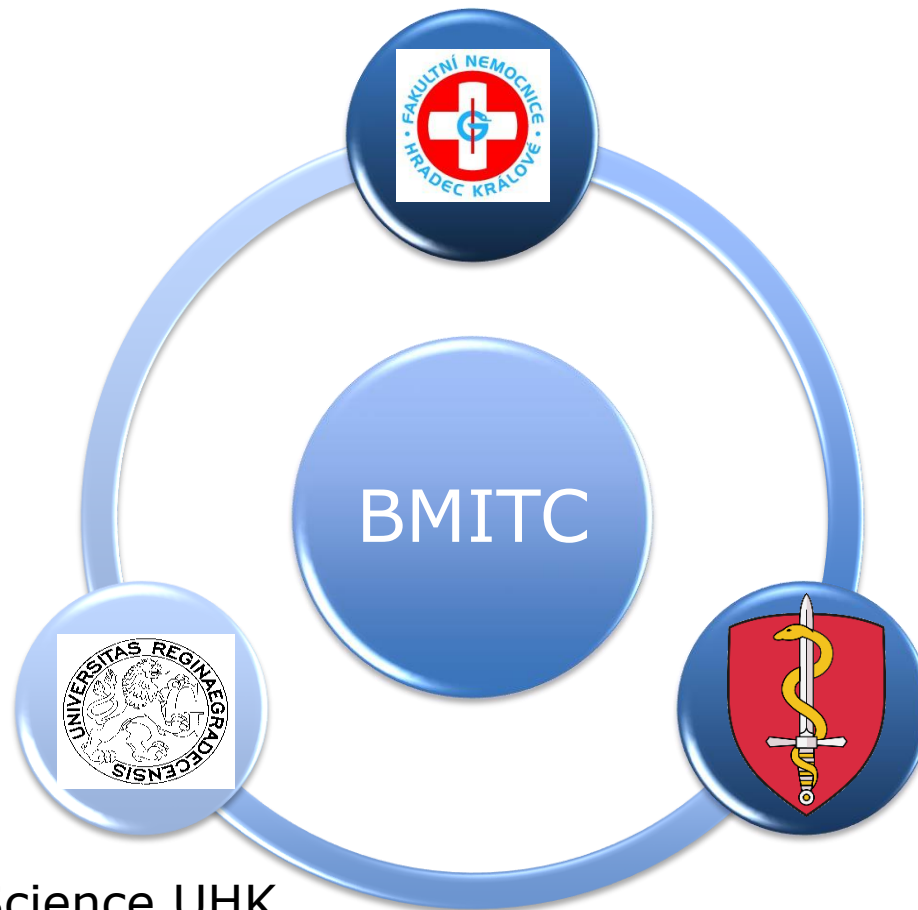
- = Processing of data from Smart Sensors as part of an Smart Environment
- = User centric adaptivity in Mobile Intelligent Information Systems
- = Innovative architectures and infrastructures of Smart Systems
- = Supportive modeling methodologies and notations for Smart environments
- = Advanced Computational Techniques of Smart Systems
- = Smart e-health and Bio-Telemetry solutions for Mobile Intelligent Information Systems
- = Smart Solutions using Geographic Information Systems (GIS) in Mobile Information Systems
- = Location based services supporting Smart Solutions
- = Smart cloud



- = eLearning
- = Cognitive maps
- = ICT-Supported Cognitive Training
- = Persuasive Learning Objects and Technologies
- = Social Networks
- = Role of Games in the Process of Knowledge Transfer
- = Using ICT Support for Individualization of Educational Process
- = Use of Artificial Intelligence Approaches in Human Behaviour Modelling



University Hospital HK

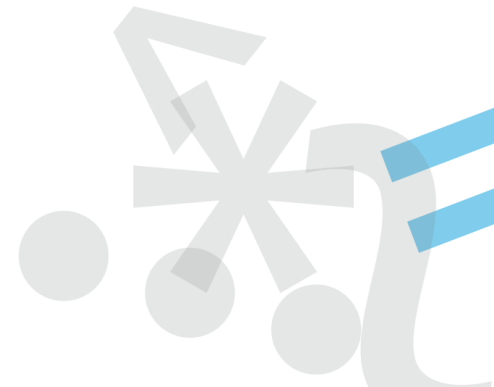


Faculty of Science UHK
Faculty of Informatics and
Management UHK

Faculty of Military Health
Sciences

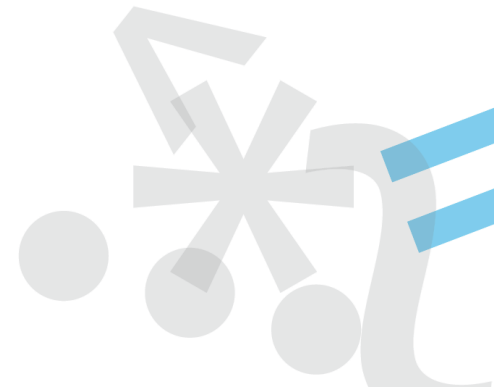
Research topics

- = Artificial Neural Networks
- = Cloud Medicine
- = Medical Databases
- = Medical devices
- = Smart solutions in Medicine
- = Economy of BioMedicine
- = Image recognition
- = Sensors and Biosensors
- = IT for hospitals, etc.



Module Smart Solutions

- = Master level subject
- = Introduction to IQRF
- = Individual student projects
- = Smart wireless sensors
- = Prototype design and implementation





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Thanks for your attention

We are open to any kind of cooperation
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