

RESEARCH HIGHLIGHTS

of the Czech Technical University in Prague

Professor Petr Konvalinka, Rector

Czech Technical University in Prague



CTU in Prague

- = technical university established in baroque time (1707)
- best ranking technical university in the country
- 8 faculties
- 110 (in Czech) and 70 (in other languages) study programmes
- 23 000+ students (2 966 international students)
- 1 900 academic staff
- 1 500 non-academic

QS World University Rankings 2014: rank 411–420

- Engineering and Technology rank 173
- Natural Sciences rank 135





Did you know that in 2013...

- we made 48 applications for inventions, 2 European applications, 1 japanese patent?
- we made 122 applications for utility models and one application for a trademark?
- we supported a total of 372 grants with funding from the Student Grant Competition (including 53 student scientific conferences), and that the total amount of funding awarded was in excess of 120,8 million Czech crowns?
- more than 700 scientific and research projects are in progress at CTU?

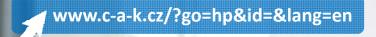






3. Centre for Applied Cybernetics (CAK)

is aimed at basic, applied, and industrial research in the field of cybernetics, and the subsequent industrial realisations.





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4. Center for Large Scale Multi-modal Data Interpretation

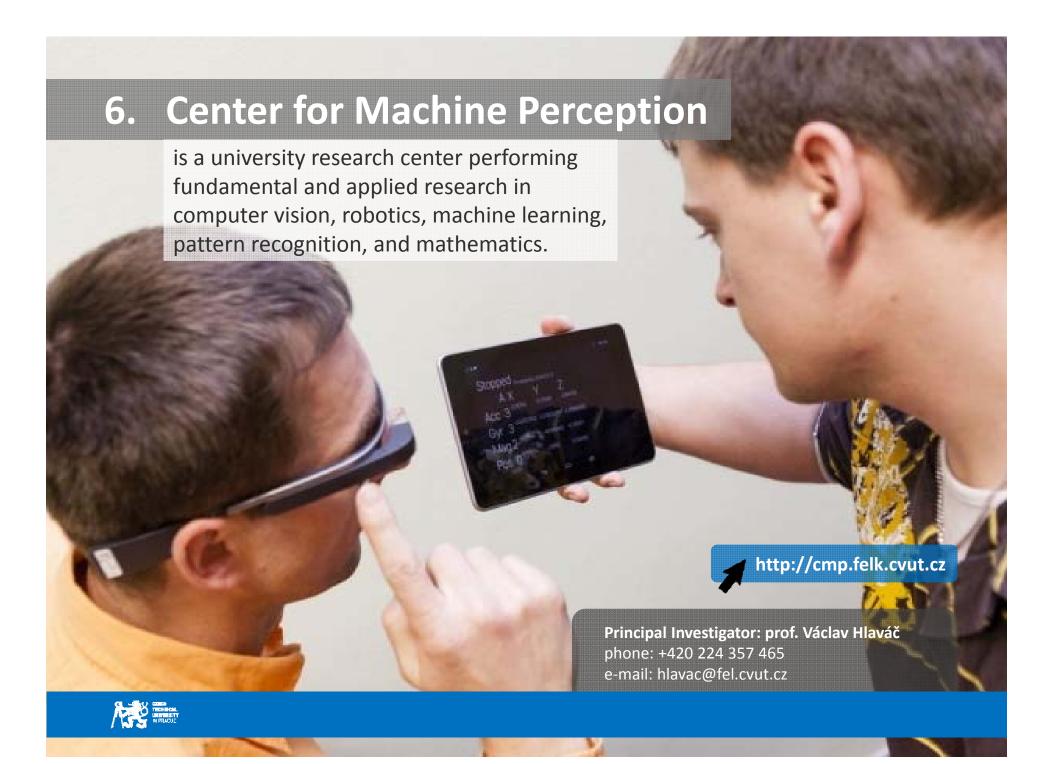
comprises internationallyrecognized groups possessing cutting edge expertise in exploiting large collections of unlabeled multi-modal data, mainly video footage, further stateof-the-art in video, audio and natural language understanding, interpretation, annotation and retrieval by combining unsupervised and semisupervised learning.

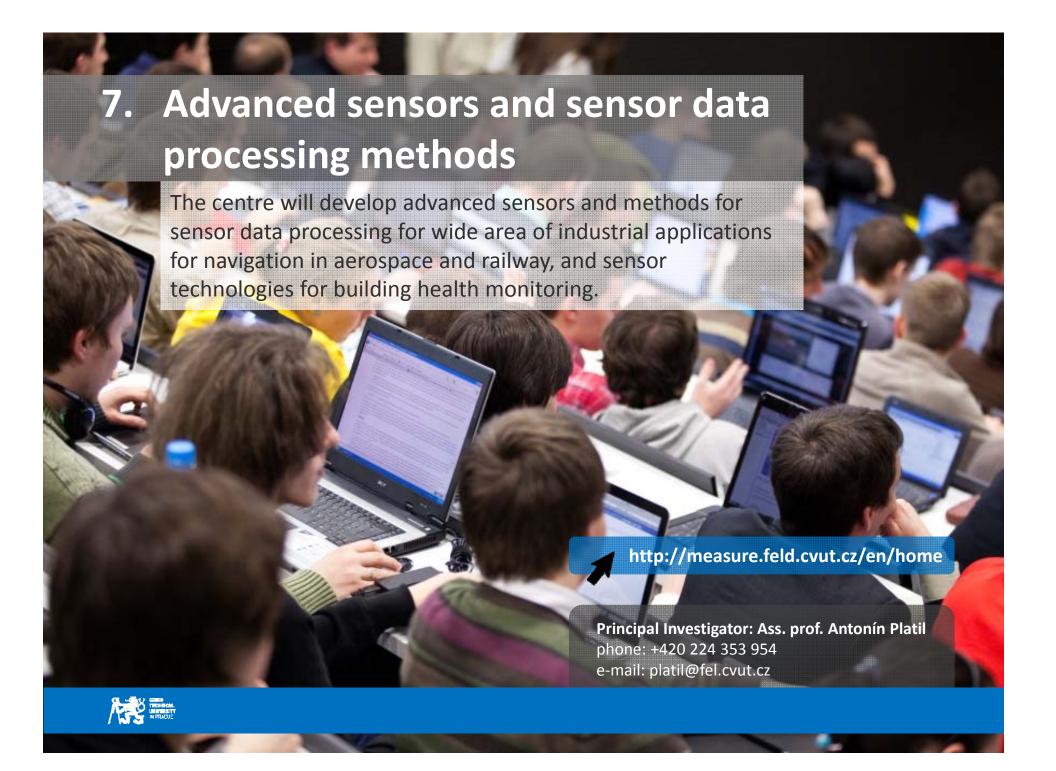


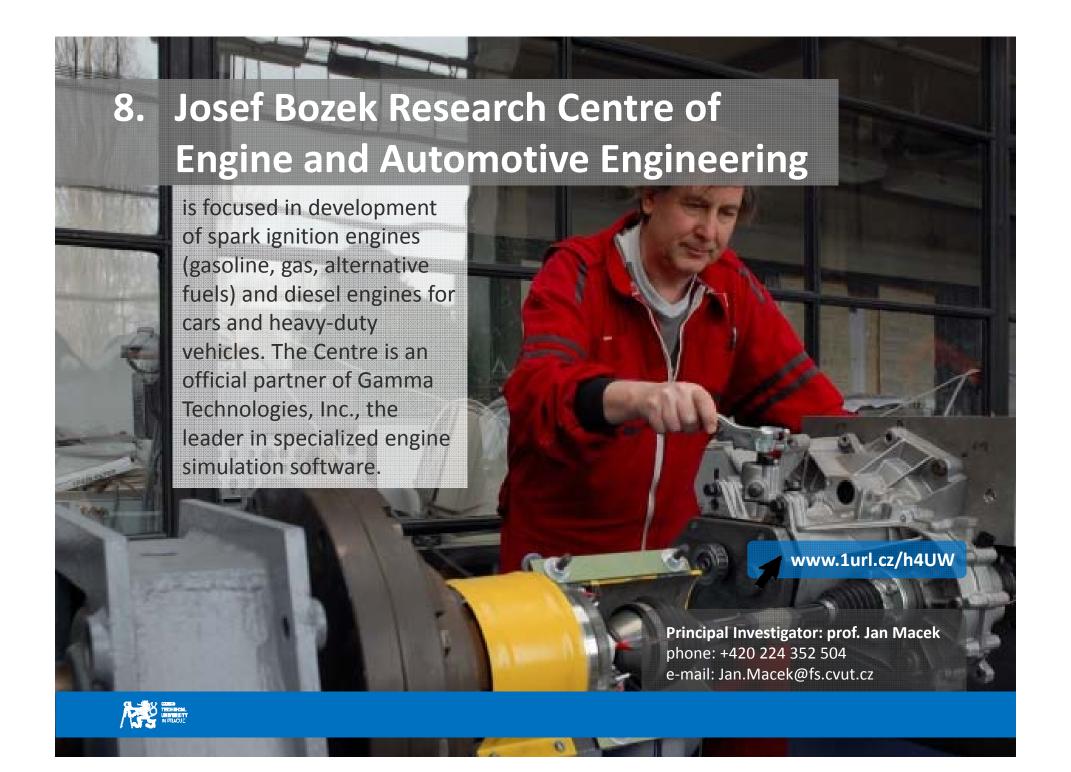
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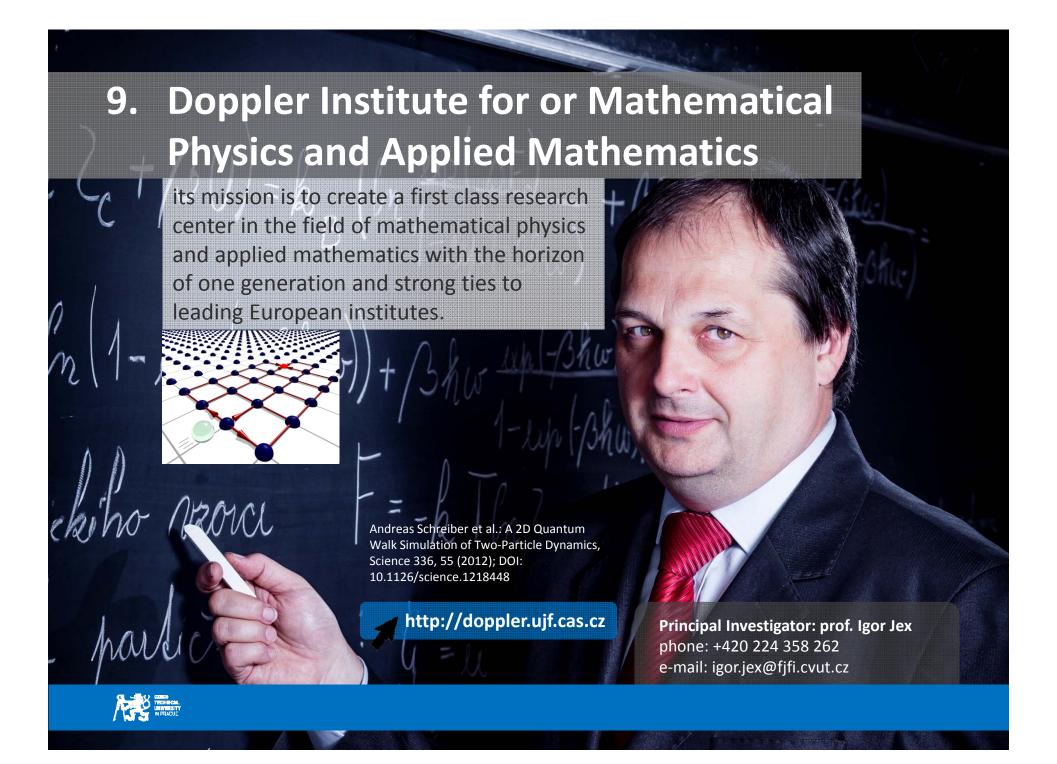


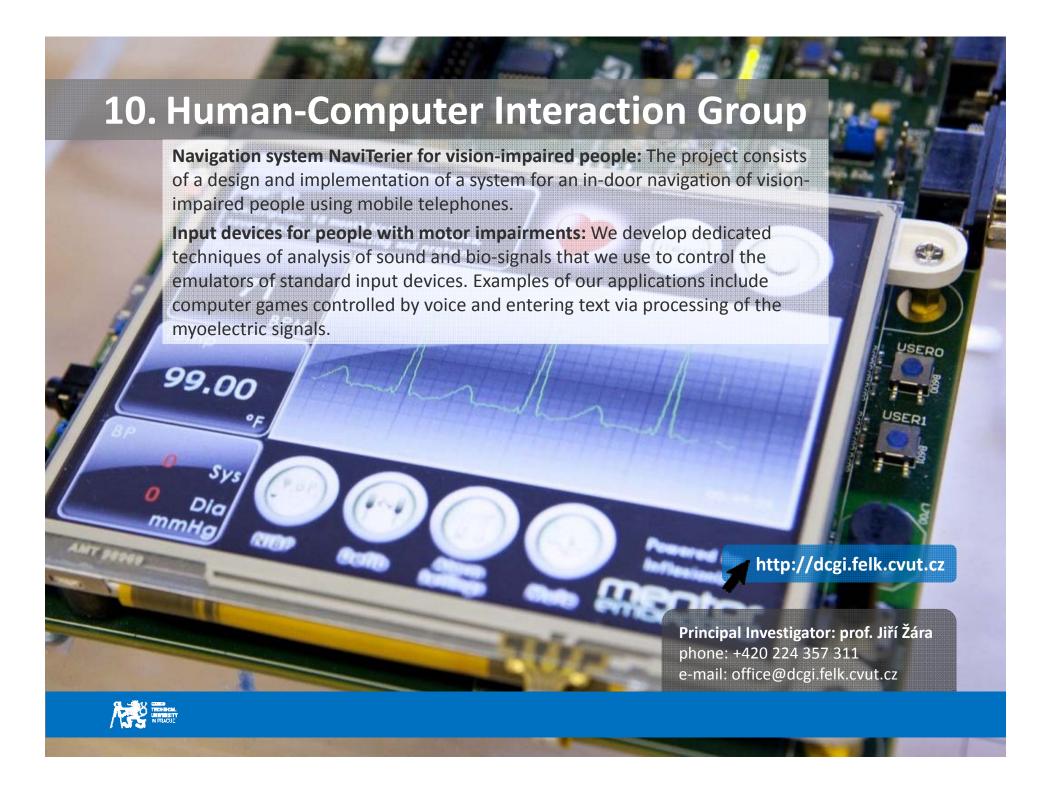
















The research objective is searching such artificial lung ventilation modes which minimize the undesirable effects on the patient's lungs. Patients with obstructive lung diseases may breath spontaneously even in cases where they would not be able of spontaneous ventilation.



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