

Contact address: Center for Machine Perception, Department of Cybernetics  
Faculty of Electrical Engineering, Czech Technical University  
Technická 2, 166 27 Praha 6, Czech Republic

WWW: <http://cmp.felk.cvut.cz/~xfrancv>

Email: [xfrancv@cmp.felk.cvut.cz](mailto:xfrancv@cmp.felk.cvut.cz)

### Education and Academic Qualifications

2000–2005 PhD degree in artificial intelligence and biocybernetics  
from the Czech Technical University in Prague. Advisor: Prof. Vaclav Hlavac.

1994–2000 MSc degree in technical cybernetics  
from the Czech Technical University in Prague. Advisor: Prof. Vaclav Hlavac.

### Employment and fellowships

2008–present Assistant professor at Faculty of Electrical Engineering, CTU Prague

2006–2008 Post-doctoral research fellow at Fraunhofer Institute FIRST.IDA in Berlin.

2004–2006 Researcher at Faculty of Electrical Engineering, CTU Prague

March - June, 2001 Erasmus Student Exchange Program, Vienna University of Technology

August, 1997 Student exchange program, Delft University of Technology

### Research projects

2013 – present Large Scale Category Retrieval.  
ERC CZ grant of Ministry of Education, Youth and Sports, LL1303.

2012 – 2015 Structured Statistical Models for Image Understanding.  
Grant Agency of the Czech Republic under Project P202/12/2071.

2010 – 2013 Humanoids with auditory and visual abilities in populated spaces.  
FP7 EU under Project HUMAVIPS FP7-ICT-247525.

2005 – 2006 Principles of Dissimilarity-Based Pattern Recognition in Signals, Symbolic  
Sequences and Images. EU INTAS project PRINCESS 04-77-7347.

2004 – 2006 Cognitive Systems using Perception-Action Learning.  
FP6 EU under Project 004176 COSPAL.

2003 – 2005 Robust and adaptive approaches to scene and object recognition.  
Funded by the Austrian Ministry of Education under Project CONEX GZ 45.535.

2004 European Research Network for Cognitive AI-enabled  
Computer Vision Systems. EU FP5 under Project IST-2001-35454.

2001, 2003–2004 Face recognition and detection system.  
Commercial project for Samsung Advanced Institute of Technology.

### Awards and grants

2015 Best Reviewer Award, Conference on Neural Information Processing Systems (NIPS).

2015 Best Student Paper and Best Runner Up Paper Award for  
K.Antoniuk, V.Franc, V.Hlavac: Consistency of structured output learning with  
missing labels. Asian Conference on Machine Learning (ACML).

2012 Best Student Paper Award for M.Uricar, V. Franc and V. Hlavac:  
Detector of Facial Landmarks Learned by the Structured Output SVM.  
International Conference on Computer Vision Theory and Applications (VISAPP).

2009–2013 Marie Curie grant. Semi-Supervised Structred Output Learning.  
EU FP7 PERG04-GA-2008-239455.

2006–2008 Marie Curie grant. Scalable Online Learning Systems. EU FP6 MEIF-CT-2006-042107.

2001 Young Scientist Award for V.Franc, V. Hlavac:  
A Contribution to the Schlesinger's Algorithm Separating Mixtures of Gaussian.  
International Conference on Computer Analysis of Images and Patterns (CAIP).

### Teaching experience

2000–2006 Lecturing and leading labs of Pattern recognition, Optimization and

2008–present Structured model learning at FEE CTU.

## Workshop co-organization

- Feb. 3–5, 2010      Computer Vision Winter Workshop. Organizers: V. Franc and L. Špaček.  
Nove Hradky, Czech Republic.
- July 9, 2008      PASCAL Large-Scale Learning Challenge. Organizers: S. Sonnenburg, V. Franc,  
E. Yom-Tov and M. Sebag. Adjoint to the International Conference on Machine  
Learning (ICML). Helsinki, Finland.
- Feb. 6–8, 2006      Computer Vision Winter Workshop. Organizers: O. Chum and V. Franc.  
Telč, Czech Republic.

## Reviewing

- Journals              IEEE PAMI, IEEE TNN, IEEE TMI, JMLR, IJCV, JAIR,  
Neurocomputing, Pattern Recognition
- Conferences          ICML, NIPS, CVPR, ICCV, ICPR.

## Publications

I have around 25 publications in referred journals and conferences. The papers have more than 400 citations according to WoS and more than 1300 according to Google Scholar ([https://scholar.google.cz/citations?user=9a5P\\_D8AAAAJ&hl=cs](https://scholar.google.cz/citations?user=9a5P_D8AAAAJ&hl=cs)).

My h-index is 7 according to WoS, 17 according to Google Scholar and 9 according to SCOPUS.

Most publications are available online at: <http://cmp.felk.cvut.cz/~xfrancv/>

Selected conference and journal publications with impact factor (IF) as of the date of publication:

- [1] M. Uricar, V. Franc and V. Hlavac. Detector of Facial Landmarks Learned by the Structured Output SVM. In *Proc. of VISAPP*. 2012.
- [2] V. Franc, A. Zien, B. Schoelkopf. Support Vector Machines as Probabilistic Models. In *Proc. of ICML*. 2011.
- [3] V. Franc and S. Sonnenburg. Optimized Cutting Plane Algorithm for Large-Scale Risk Minimization. *Journal of Machine Learning Research*, 10:2157–2192, 2009, (IF 2.8).
- [4] V. Franc and B. Savchynskyy. Discriminative Learning of Max-Sum Classifiers. *Journal of Machine Learning Research*, 9:67–104, 2008 (IF 3.1).
- [5] V. Franc and V. Hlaváč. An iterative algorithm learning the maximal margin classifier. *Pattern recognition*, 36(9):1985–1996, 2003, (IF 1.6).