

Ing. Igor Potůček Phd.

Highest education attained: MBA, MBT, post-graduate studies

Sex: Male

Date of Birth: 26-12-1978

Country of citizenship: Czech Republic

Marital status: Married

Disabled with special needs: None

Contact (for detailed info, please contact me on this email):

E-mail: igor.potucek@gmail.com

Work experience:

- 12/2007 - till now** **CAMVISION s.r.o.** was founded in 2007. Company offers system development and realization of image&video processing systems.
- Owner, Development leader**
Software development of train camera system for train sets of Litva railways and Petrohrad underground. This system serves for recording image sequences from cameras installed in the train, their presentation to the driver and handling of other devices as alarms, camera zooms, etc.
- Field of work:** IS/IT: Application and system development
Profession: IT Manager, Development Manager / Team Leader, Programmer
Country: Czech Republic
- 06/2004 - till now** **Hego Group** International company that provides the broadcast industry with products and production services that delivers TV graphics, virtual graphics and game enhancements for sports, virtual advertising and broadcast enhancements.
Research and development of image processing and computer vision algorithms.
Automatic camera parameter estimation and calibration, virtual camera generation, ball tracking, player detection, etc.
- Field of work:** IS/IT: Application and system development.
Profession: Programmer, research.
Country: Czech Republic
- 09/2002 - 01/2008** **Brno University of Technology, Faculty of Information Technology**
Professor assistant, researcher on the Department of Computer Graphics and Multimedia
Participation on several foreign research projects, teaching.
- Field of work:** Research, teaching.
- Research projects:**
2006 – 2010 Center of Computer Graphics – basic research project MŠMT 06008.
2006 – 2009 AMIDA - Augmented Multi-party Interaction with Distance Access (EU-6FP-IST, IST-033812-AMIDA).
2004 – 2006 Augmented Multi-party Interaction - computer enhanced multi-modal interaction in the context of meetings (EU-6FP-IST, 506811-AMI).
2005 – 2005 Recognition and tracking of human body parts (FRVŠ-MŠMT, FR2192/2005/G1).
2002 – 2005 Multimodal Meeting Manager – project concerned with the construction of a demonstration system to enable structuring, browsing and querying of an archive of automatically analyzed meetings (EU-6FP-IST, IST-2001-34485).

Education:

- 2002 - 2005** Brno University of Technology, Faculty of Information Technology, Božetěchova 2, Brno 612 66
Informatics
The Doctoral (Ph.D.) Study Programme - image processing and computer vision.
- 1997 - 2002** Brno University of Technology, Faculty of Information Technology, Božetěchova 2, Brno 612 66
Informatics
The Master Study Programme - Information Technology

Other Courses/Seminars:

- 2003, 2004** Work period abroad, collaboration on grant projects M4 and AMI, TUM, Germany

Knowledge and skills:

- Czech** Proficient / native speaker
- English** Intermediate
- German** Basic / passive
- IT knowledge:** Professional
Area of image processing and computer vision, especially:
- object tracking - people, cars, soccer players.
 - object detection based on the geometrical properties, movement characteristic
 - omni-directional image transformation and correction
 - internal and external camera parameter estimation based on the real images
 - automatic camera tracking and calibration
 - biomedical data processing
 - traffic monitoring algorithms
- C/C++, C#, Visual Studio .NET, OpenCV
- Driving licence:** B
- Other Informations:** www.potucek.net

Interests:

bicycling, fitness, work on interesting projects, family

My publications:

- 2009** Říha, K., Potůček, I.: **The Sequential Detection of Artery Sectional Area Using Optical Flow Technique**, Proceedings of the 8th WSEAS International Conference on CIRCUITS, SYSTEMS, ELECTRONICS, CONTROL & SIGNAL PROCESSING (CSECS '09), ISSN: 1790-5117, ISBN: 978-960-474-139-7.
- 2008** Herout, A., Beran, V., Hradiš, M., Potůček, I., Zemčík, P., Chmelař, P.: [TRECVID 2007 by the Brno Group](#), In: Proceedings of TRECVID 2007, Gaithersburg, US, NIST, 2008, p. 1-6, ISBN 978-1-59593-780-3
- 2007** Beran, V., Herout, A., Hradiš, M., Chmelař, P., Potůček, I., Sumec, S., Zemčík, P.: [Video Summarization at Brno University of Technology](#), In: ACM Multimedia, Augsburg, DE, ACM, 2007, p. 4, ISBN 978-1-59593-702-5
- Potůček, I., Beran, V., Sumec, S., Zemčík, P.:** [Evaluation and comparison of tracking methods using meeting omnidirectional images](#), In: Workshop on Multimodal Interaction and Related Machine Learning Algorithms (MLMI), Brno, CZ, 2007, p. 12
- Sumec, S., Potůček, I.:** [Evaluation of Automatic Video Editing](#), In: Workshop on Multimodal Interaction and Related Machine Learning Algorithms (MLMI), Brno, CZ, 2007, p. 12
- 2006** Beran, V., Gatica-Perez, D., Potůček, I., Rigoll, G., Schreiber, S., Smith, K.: [Multi-Person Tracking in Meetings: A Comparative Study](#), In: Machine Learning for Multimodal Interaction, Washington DC, US, 2006, p. 12
- Černocký, J., Potůček, I., Sumec, S., Zemčík, P. et al:** [AMI Mobile Meeting Capture and Analysis System](#), Washington, US, 2006, p. 1
- Gatica-Perez, D., Rigoll, G., Schreiber, S., Smith, K., Potůček, I., Beran, V.:** [2D Multi-Person Tracking: A Comparative Study in AMI Meetings](#), In: Multimodal Technologies for Perception of Humans, ..., GB, 2006, p. 12, ISBN 978-3-540-69567-
- Zemčík, P., Herout, A., Beran, V., Sumec, S., Potůček, I.:** [Real-Time Visual Processing Using "Views"](#), In: Poster, MLMI Conference, Washington, DC, US, 2006, p. 1
- 2005** Kadlec, J., Potůček, I., Sumec, S., Zemčík, P.: [Evaluation of Tracking and Recognition Methods](#), In: Proceedings of the 11th conference EEICT, Brno, CZ, 2005, p. 617-622, ISBN 80-214-2890-2
- Potůček, I.:** [Automatic Image Stabilization for Omni-Directional Systems](#), In: Proceedings of the Fifth IASTED International Conference on VISUALIZATION, IMAGING, AND IMAGE PROCESSING, Benidorm, ES, ACTA Press, 2005, p. 338-342
- Sumec, S., Potůček, I., Zemčík, P.:** [AUTOMATIC MOBILE MEETING ROOM](#), In: Proceedings of 3IA'2005 International Conference in Computer Graphics and Artificial Intelligence, Limoges, FR, 2005, p. 171-177, ISBN 2-914256-07-8
- Zemčík, P., Herout, A., Beran, V., Potůček, I., Fučík, O., Honec, J., Richter, M., Kalová, I., Lisztwan, M.:** [Image Processing in Traffic Applications](#), In: Proceedings of GVIP 2005, Cairo, EG, 2005, p. 6, ISSN 1687-398X

My publications:

- 2004** **Beran, V., Potůček, I.:** [REAL-TIME RECONSTRUCTION OF INCOMPLETE HUMAN MODEL USING COMPUTER VISION](#), In: Proceeding of the 10th Conference and Competition STUDENT EEICT 2004, Volume 2, Brno, CZ, 2004, p. 298-302, ISBN 80-214-2635-7
- Jenderka, P., Potůček, I., Sumec, S.:** [Meeting recordings at Brno University of Technology](#), In: AMI/PASCAL/IM2/M4 workshop, Martigny, CH, 2004, p. 3
- Potůček, I., Rigoll, G., Wallhoff, F., Zobl, M.:** [Dynamic Tracking in Meeting Room Scenarios Using Omnidirectional View](#), In: 17th International Conference on Pattern Recognition (ICPR 2004), Cambridge, GB, IEEE CS, 2004, p. 933-936, ISBN 0-7695-2128-2
- Potůček, I., Sumec, S., Španěl, M.:** [Participant activity detection by hands and face movement tracking in the meeting room](#), In: 2004 Computer Graphics International (CGI 2004), Los Alamitos, US, IEEE CS, 2004, p. 632-635, ISBN 0-7695-2717-1
- Potůček, I., Španěl, M.:** [Face Detection in Meeting Room Using Omni-directional View](#), In: AMI/PASCAL/IM2/M4 workshop, Martigny, CH, IDIAP, 2004, p. 1-1
- Zemčík, P., Sumec, S., Potůček, I., Španěl, M., Herout, A., Pečiva, J.:** [Summary of Image/Video Processing for AMI Project in Brno](#), In: Poster at MLMI'04 workshop, Martigny, CH, IDIAP, 2004, p. 1-1
- 2003** **Potůček, I.:** [Person Tracking Using Omnidirectional View](#), In: Proceedings of the 9th conference STUDENT EEICT 2003, Brno, CZ, VUT v Brně, 2003, p. 603-607, ISBN 80-214-2379, ISSN 0572-3043
- Potůček, I.:** [Sledování pohybu objektů v sekvenci snímků](#), In: Sborník Vysokého učení technického v Brně, Brno, CZ, FEKT VUT, 2003, p. 412-415, ISSN 0542-7462
- Potůček, I.:** [Tracking movement objects in sequence pictures](#), In: ElectronicsLetters.com , Vol. 2003, No. 2, Brno, CZ, p. 1-15, ISSN 1213-161X