# Projects and publications

## Conference and journal publications

Haladová, Z. – Šikudová, E.: *Multiple instances detection.* In: Spring Conference on Computer Graphics SCCG'2014: Conference Proceedings. Bratislava: Comenius University, 2014. (accepted)

Haladová, Z. – Šikudová, E.: *Combination of global and local features for efficient classification of paitings.* In: Spring Conference on Computer Graphics SCCG'2013: Conference Proceedings. Bratislava: Comenius University, 2013. pp. 21-27. ISBN 978-80-223-3377-1.

Haladová, Z. – Šikudová, E.: *Limitations of the SIFT/SURF based methods in the classifications of fine art paintings.* In: Computer Graphics and Geometry: Journal. Vol. 12, No. 1, 2010. pp. 40-50. ISSN 1811-8992.

Haladová, Z.: *Reconstruction of cultural heritage object utilizing its paper model for augmented reality.* In: Eurographics 2011: Conference Proceedings. Eurographics Association, 2011. pp. 7-8.

Haladová, Z.: *Segmentation and classification of fine art paintings.* In: Central European Seminar on Computer Graphics: Conference Proceedings. Vienna : Institute of Computer Graphics and Algorithms, 2010. pp. 59-65.

Haladová, Z.– Bolyos, C.: *Augmented gallery guide.* The 11th International Conference on Modeling and Applied Simulation : Conference Proceedings. Genoa : DIME University of Genoa, 2012. pp. 254-259. ISBN 978-88-97999-02-7.

Haladová, Z.– Bolyos, C. – Šikudová, E.: *Concept of portable gallery guide.* 6th International Conference on Digital Arts : Conference Proceedings. Faro : Grupo Portugues de Computacao Grfica and ARTECH International, 2012. pp. 321-324. ISBN 978-972-98464-7-2.

Haladová, Z.– Kučerová, J.: *Multiple instance object recognition for detection of salient regions*(in Slovak: Rozpoznávanie inštancií objektov pre účely detegovania významných oblastí). Student Scientific Conference 2013. Bratislava: Comenius University, 2013.

Haladová, Z.: *Would it work in Louvre? Evaluation of Augmented museum guides.* Student Scientific Conference 2012. Bratislava: Comenius University, 2012.

Haladová, Z.: *Historical event reconstruction utilizing Augmented reality* (in Slovak: Rekonštrukcia historickej udalosti s využitím zmiešanej reality). Student Scientific Conference 2011. Bratislava: Comenius University, 2011.

Černeková, Z. et al.: *Selected methods of semantics extraction* In: Information Technology Applications = Aplikácie informačných technológií: Journal. Vol. 2, 2013. pp. 67-78. ISSN 1338-6468.

Kučerová, J. – Haladová, Z.: *Multiple instance object recognition for detection of salient regions* In: Perception: Journal. Vol. 42, 2013. pp. 219. ISSN 0301-0066.

Rjabinin, I. – Haladová, Z. : *Lowii-symbiosis of the music, painting and the computer generated art.* 6th International Conference on Digital Arts : Conference Proceedings. Faro : Grupo Portugues de Computacao Gráfica and ARTECH International, 2012. pp. 321-324. ISBN 978-972-98464-7-2.

Stanek, S. et al.: *SPINKLAR-3D: motion capture interaction and cooperation between people and avatars in 3D augmented reality and virtual reality* In: Information Technology Applications = Aplikácie informačných technológií: Journal. Vol. 2, 2013. pp. 46-53. ISSN 1338-6468.


## Monograph

Šikudová, Elena – Černeková, Zuzana – Benešová, Wanda – Haladová, Zuzana – Kučerová, Júlia: *Počítačové videnie : Detekcia a rozpoznávanie objektov.* - 1. vyd. - Praha : Wikina, 2014. - 378 s. ISBN 978-80-87925-06-5.


## Invited talks

Haladová, Z.: *Augmented reality and computer vision in context with new media.* Media lab. Academy of fine arts and design. Bratislava. 2013.

Haladová, Z.: *Augmented reality and cultural heritage.* Invisible Štiavnica Workshop. Banská Štiavnica. 2013.

Haladová, Z.: *Počítačové videnie, rozšírená realita a iné zázraky.* Krakatoa talk club. Bratislava. 2012.

Haladová, Z.: *Rekonštrukcia historickej udalosti s využitı̌m rozšı̌renej reality..* Vision

and graphics group seminar. FIIT. Slovak Technical University. 2011.

# Research projects and travel grands

*Comeniana - metódy a prostriedky digitalizácie a prezentácie 3D objektov kultúrneho dedičstva.* APVV 26240220077.
Principal investigator: RNDr. David Běhal, PhD.

*Intergration of visual information studies and creation of comprehensive multimedial study materials.* KEGA 068UK-4/2011.
Principal investigator: RNDr. Zuzana Černeková, PhD.

*Virtualizer: 3D Scanner for Complete Reconstruction.* 2012. Tatrabanka Foundation grant Etalent.
Principal investigator: Mgr. Tomáš Kovačovský

*Snímanie pohybu, interakcia a kooperácia ľudi a avatarov v 3D rozšírenej a virtuálnej realite (SPINKLAR-3D).* KEGA 068UK-4/2011.
Principal investigator: RNDr. Stanislav Stanek, PhD.

*Nová metóda detekcie a registrácie viacerých inštancií objektov.* UK/164/14. 2014. Comenius University grant.
Principal investigator: RNDr. Zuzana Haladová.

*Nová metóda registrácie multimodálnych dát s využitím lokálnych príznakov.* UK/228/13. 2013. Comenius University grant.
Principal investigator: RNDr. Zuzana Haladová.

*Travel grant for ICVSS summer school.* 2013. Tatrabanka Foundation grant Študenti do sveta.
Principal investigator: RNDr. Zuzana Haladová.

*Travel grant for SSIP summer school.* 2012. SPP Foundation grant Hlavička.
Principal investigator: RNDr. Zuzana Haladová.

*Travel grant for Eurographics conference.* 2011. Literary fund.
Principal investigator: RNDr. Zuzana Haladová.

# Theses

Haladová, Z.: *Augmented Reality in Cultural Heritage Applications*. Project of dissertation. Comenius University, 2012.

Haladová, Z.: *Utilizing fine art paintings recognition for augmented museum guide* (in Slovak: Využitie rozpoznávania maliarskych plátien pre múzejného sprievodcu). Rigorous thesis (RNDr.). Comenius University, 2012.

Haladová, Z.: *Segmentation and classification of fine art paintings* (in Slovak: Rozpoznávanie a klasifikácia maliarskych plátien na fotografiách). MSc. thesis (Mgr.). Comenius University, 2010.

# Awards

Attendee of the 1. Heidelberg Laureate Forum 2013

Best Presentation Award (1$^{st}$ place, based on public voting). Spring Conference on Computer Graphics 2013.

ŠVK (Student Scientific Conference), Slovak literary fund award, 2013.

3$^{rd}$ best team project, SSIP summer school, 2012.

Best Presentation Award (3$^{rd}$ place, based on public voting). Central European Seminar on Computer Graphics 2010.

ŠVOČ (Student Scientific Conference, Czechoslovak international round), Winner 3$^{rd}$ place, 2010.

ŠVK (Student Scientific Conference), Winner, Slovak literary fund award, 2010.

# Tutoring

Vozny M.: *CBIR system for microscopy images*. ŠVK (Student Scientific Conference), Winner, 2014.

Franta R.: *Spatial Super Resolution*. ŠVOČ (Student Scientific Conference, Czechoslovak international round), Winner 1$^{st}$ place, 2013.

Bolyós Cs.: *Scarlet – Fast Mobile Augmented Reality Library.* Winner of the Kunii prize 2013.

Rjabinin I.: *Lowii – symbiosis of the music, painting and the computer generated art.* ŠVK (Student Scientific Conference), Winner, 2012.