

Franc Solina

Curriculum Vitae

University of Ljubljana
Faculty of Computer and Information Science
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Education:

- 1987 University of Pennsylvania, Philadelphia, Pennsylvania, USA
Ph.D. in Computer and Information Science
- 1982 University of Ljubljana, M.S. in Electrical Engineering
- 1979 University of Ljubljana, Dipl. Ing. degree in EE

Experience:

- 1998 – **Professor**, Faculty of computer and information science, University of Ljubljana.
- 1991 – **Head of Computer Vision Laboratory**, Faculty of computer and information science, University of Ljubljana.
- 2012 – **Professor**, Academy of Fine Arts and Design, University of Ljubljana, Dept. of Video and New Media.
- 2011 – **Quality Assurance Auditor in Higher Education**, Agency for Science and Higher Education, Republic of Croatia.
- 2010 – 2014 **Member of the Board of Governors, Institut “Jožef Stefan”**, nominated by the Government of Slovenia.
- 2010 – 2011 **Member of the Strategic Council on Information Society** to the President of the Government of Slovenia.
- 2006 – 2010 **Dean**, Faculty of computer and information science, University of Ljubljana.
- 2000 – 2006 **National coordinator for computer and information science**, Ministry of science and technology.
- 1996 – 1999 **Vice dean for research**, Faculty of computer and information science, University of Ljubljana.
- 1988 – 1998 **Assistant and Associate professor**, Faculty of computer and information science, University of Ljubljana.
- 1983 – 1988 **Ph.D. student, Teaching and research assistant, Post-doc**, GRASP Laboratory, SEAS, University of Pennsylvania.

Awards:

Boris Kidrič Fund Award for Scientific Achievements (1982),
Fulbright Fellowship (1983),
Morris and Dorothy Rubinoff Award, CIS, UPenn (1988),
IAPR Fellow (2002),
University of Ljubljana Golden Plaque (2006),
Information Society Lifetime Achievement Award (2012),
Journal of Information, Communication and Ethics in Society,
2016 Highly Commended Award

Membership:

IEEE, IAPR, Slovenian Association of Fine Arts Societies,
ICOMOS

Selected publications

- [1] Franc Solina and Ruzena Bajcsy. Recovery of parametric models from range images: The case for superquadrics with global deformations. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 12(2):131–147, 1990.
- [2] Bor Prihavec and Franc Solina. User interface for video observation over the Internet. *Journal of Network and Computer Applications*, 21:219–237, 1998.
- [3] Peter Peer and Franc Solina. Panoramic depth imaging: Single standard camera approach. *International Journal of Computer Vision*, 47(1/2/3):149–160, 2002.
- [4] Aleš Jaklič and Franc Solina. Moments of superellipsoids and their application to range image registration. *IEEE Transactions on Systems, Man, and Cybernetics, Part B, Cybern.*, 33(4):648–657, 2003.
- [5] Jaka Krivic and Franc Solina. Part-level object recognition using superquadrics. *Computer Vision and Image Understanding*, 95(1):105–126, 2004.
- [6] Franc Solina. 15 seconds of fame. *Leonardo*, 37(2):105–110, 2004.
- [7] Aleš Jaklič, Aleš Leonardis, and Franc Solina. *Segmentation and Recovery of Superquadrics*. Springer, 2010.
- [8] Peter Ciuha, Bojan Klemenc, and Franc Solina. *Visualization of concurrent tones in music with colours*. Proceedings of the 18th ACM international conference on Multimedia, pp. 1677–1680, 2010.
- [9] Robert Ravnik and Franc Solina. Audience measurement of digital signage: quantitative study in real-world environment using computer vision. *Interacting with Computers*, 25(3):218–228, 2013.
- [10] Marko Hrastovec and Franc Solina. Obtaining meteorological data from aircraft with Mode-S radars. *IEEE Magazine on aerospace and electronic systems*, 28(12):12–24, 2013.
- [11] Robert Ravnik, Borut Batagelj, Bojan Kverh, and Franc Solina. Dynamic anamorphosis as a special, computer-generated user interface. *Interacting with Computers*, 26(1):63–74, 2014.
- [12] Miran Erič, Andrej Gaspari, Katarina Čufar, Franc Solina and Tomaž Verbič. Zgodnjerimska ladja iz Ljubljani pri Sinji Gorici= Early Roman barge from the Ljubljana River at Sinja Gorica. *Arheološki vestnik*, 65:187–254, 2014.

- [13] Franc Solina and Srečo Dragan. Novomedijski umetniški projekti kot most med realnim in virtualnim svetom. In Tadej Bajd and Ivan Bratko (Eds.): *Robotika in umetna inteligenca*. Slovenska matica, Ljubljana, 2014, pp. 187–230.
- [14] Erika Pavlin, Žiga Elsner, Tadej Jagodnik, Borut Batagelj and Franc Solina. From illustrations to an interactive art installation. *Journal of Information, Communication and Ethics in Society*, 13(2):130–145, 2015.
- [15] Aleš Jaklič, Miran Erič, Igor Mihajlovič, Žiga Stopinšek and Franc Solina. Volumetric models from 3D point clouds: The case study of sarcophagi cargo from a 2nd/3rd century AD Roman shipwreck near Sutivan on island Brač, Croatia. *Journal of Archaeological Science*, 62 (October):14–152, 2015.
- [16] Matic Potočnik, Bojan Klemenc, Franc Solina, and Uroš Herlec. Computer aided method for colour calibration and analysis of digital rock photographs. *Geologija*, 58(2):247–260, 2015.
- [17] Marko Hrastovec and Franc Solina. Prediction of aircraft performances based on data collected by air traffic control centers. *Transportation Research Part C*, 73:167–182, 2016.
- [18] Aleš Jaklič, Franc Solina and Luka Šajn. User interface for a better eye contact in videoconferencing. *Displays*, 46:25–36, 2017.
- [19] Franc Solina and Blaž Meden. Light fountain—a virtually enhanced stone sculpture. *Digital Creativity*, 28(2): 89–102, 2017.
- [20] Borut Batagelj and Franc Solina. Preservation of an interactive computer-based art installation—a case study. *International Journal of Arts and Technology*, 10(3): 2017.