

From Yugoslavia via GRASP Lab back to Slovenia

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GRASP Impact & Innovation – Celebrating 40 Years

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Yugoslavia → Philadelphia → Slovenia



Yugoslavia



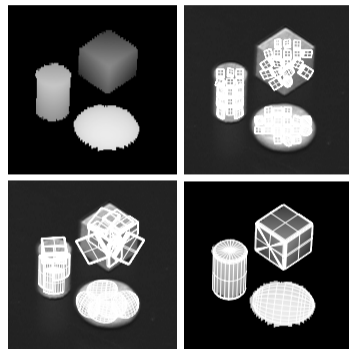
Philadelphia
1983–1988



Independence of Slovenia
1991

GRASP Lab: Recovery of Superquadrics from range data

- F. Solina, R. Bajcsy. **Recovery of parametric models from range images: The case for superquadrics with global deformations.** IEEE Trans. on PAMI 12 (2): 131-147, 1990
- A. Jaklič, A. Leonardis, F. Solina. Segmentation and recovery of superquadrics. Kluwer, 2000
- I opened the door of the GRASP lab for almost ten other students/visitors from Slovenia:
Aleš Leonardis (Univ. of Birmingham, UK),
Miloš Žefran (Univ. of Illinois),
Jasna Maver, Stane Kovačič (Univ. of Ljubljana),
Peter Rogelj (Univ. of Primorska),
Matjaž Jogan (Johnson & Johnson), ...
- Ruzena Bajcsy, **honorary doctorate** from Univ. of Ljubljana, 2001



grasping, 3D modeling in
medicine, material science,
anthropology, ...

New country – new Faculty: provide for facilities and hire good people



- started the Computer Vision Laboratory (1991)
- assisted in establishing new IEEE Slovenia Section, new IAPR affiliated Society
- new Faculty of Computer and Information Science (1996)
- Vicedean (1996–1999) and Dean (2006–2010):
 - I hired new faculty with Ph.D. degrees from abroad to counter inbreeding
 - our successful alumni: Sanja Fidler (University of Toronto), Jure Leskovec (Stanford), Marinka Žitnik (Harvard)
 - new faculty building (2014)



underwater photogrammetry,
superquadric models of Roman
sarcophagi

Underwater archeology:

- A Jaklič, M Erič, I Mihajlović, Ž Stopinšek, F 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 (Oct.): 143–152, 2015

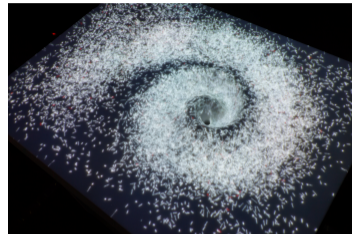
Aerospace:

- M Hrastovec, F Solina. **Prediction of aircraft performances based on data collected by air traffic control centers.** *Transportation Research Part C: Emerging Technologies* 73: 167–182, 2016

Psychophysics:

- A Jaklič, F Solina, L Šajin. **User interface for a better eye contact in videoconferencing.** *Displays* 46: 25–36, 2017

My diversion into Fine arts — inspired by Telegarden (Ken Goldberg)



- more than 20 years ago I started to collaborate with Srečo Dragan, a video artist and professor at the Academy of fine arts and design in Ljubljana
- I teach now also at the Academy of fine arts and design
- almost ten years ago I took up sculpting in stone and wood and I try to combine it with my computer vision interests: F Solina, B Meden. **Light fountain – a virtually enhanced stone sculpture.** Digital Creativity 28 (2): 89-102, 2017