SUMMER SCHOOL ON IMAGE PROCESSING

1993 - 2006

SSIP - What is it for?

- to give lectures to the students interested in image processing and its applications,
- to have exercises in solving different interesting problems,
- to bring together young people and lecturers of the field.

How to realise it?

- Very good students
- Good organisers
- Interesting topics
- Computers
- 10-12 days
- Lot of money ?

- Infinitely many !
- Excellent!
- We have a lot !
- Not so bad.
- If it is necessary ...
- Almost nothing.

Program of SSIP

- Lectures
- Team works
- Test
- Students' Session
- Social program

Lectures

- About image processing (not research talks)
- During the mornings
- By the teachers of the participating universities
- Presentations are on the home page of SSIP
 / Copies of the slides are available

Team work

- International teams of 4 students
- Interesting projects with input data are available
- During the afternoons
- Presentation at the end of SSIP
- International jury
- Great prizes --)

Test

- Simple questions from the talks
- ▼ 70 % or more you are successful
- Certificate (recognition by several universities as an MSc or PhD course)

Social Program

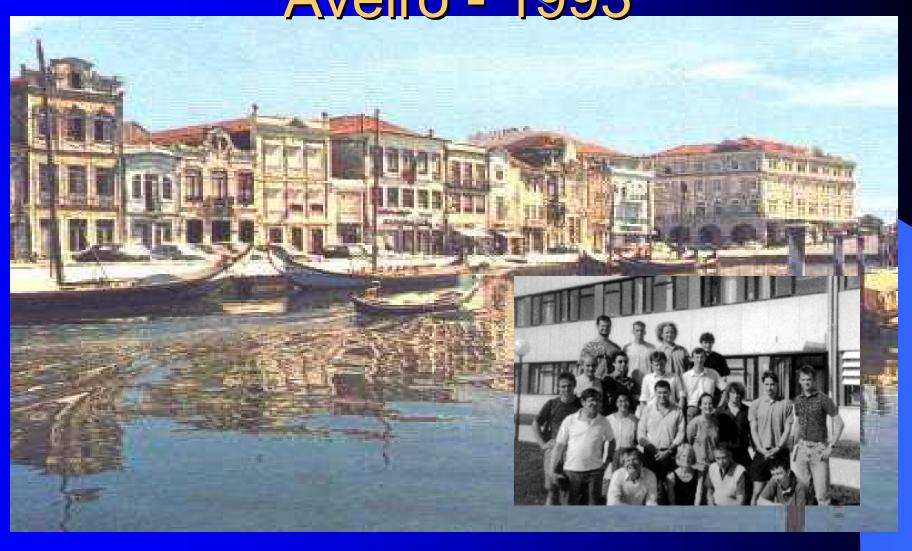
- Discussions during SSIP
- Closing dinner on the last day
- Excursion

How did it start?

- TEMPUS SJEP 1991-1994
- Image Processing with Applications in Robotics and Medicine
- Participants:

U. Szeged, UC London, Inst. G. Roussy (Paris), U. Aveiro, U. Ljubljana, U. Lodz

Let's have a nice place – Aveiro - 1993



Zooming ...



Szeged







Good, isn't it?

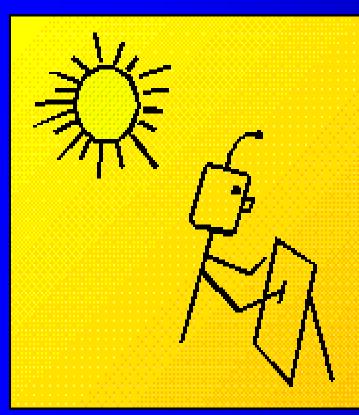
Szeged – 1994



Szeged – 1994 Project 11:

- 11. User interface and game representation for 3-D GO.
- Input- Creation of 'game' including GUI and rules! for extension of Japanese game GO to 3-D.
- Output- playable game Coding- as desired
- Remarks- Difficulty depends on project team

Szeged - 1995

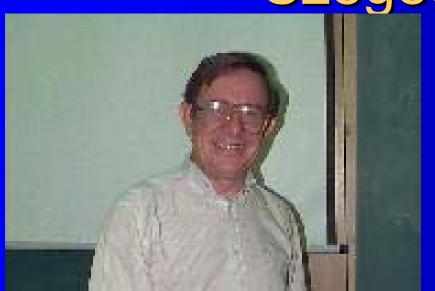


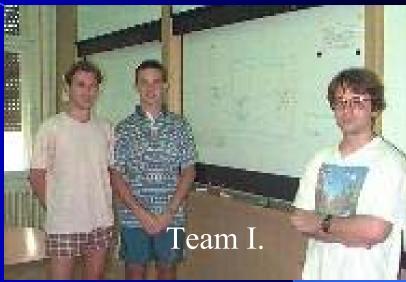
SSIP'95

3rd Summer School in Image Processing Szeged, Hungary 4-9 September 1995 Participants - 1995



Szeged - 1996





Andrew Todd-Pokropek



Participants - 1996



István Marosi

Szeged - 1997



Two questions from the Test of 1997

Continue the series
10, 11, 12, 13, 14, 15, 16, 17, 20, 22, 24, 31, 100, 121, 10000

Why can't you get a drink of Coca Cola in a Kentucky Fried Chicken?

Debrecen - 1998





Organiser: A. Fazekas

Debrecen – 1998 - Lectures

Tuesday (14th of July)

• E. Sorantin: CAD in Mammography



Szeged - 1999



A Sunday in tanya in the puszta



Zagreb - 2000





Organiser: S. Loncaric

An Interesting Project

- Project: Simulation of throwing dice (input of real video images) to generate image from which score determined.
- Team B Members:
 - Ivan Ceskovic
 - Balázs Erdőhelyi
 - Kristijan Macek
 - Rafal Zyto

2001 Szeged





László Nyúl

University of Szeged



Budapest 2002





Dmitry Chetverikov

Eötvös Loránd University

An interesting view



Temesvár - 2003





Lucian Cucu

University of West Timisoara

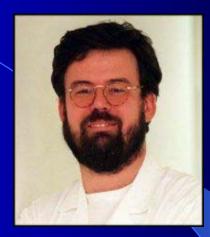
Temesvár - 2003



Allan Hanbury
Vienna University of Technology

Graz - 2004





Erich Sorantin







Medical University Graz

Project 5 Traffic simulation

- Input: model of city street or highway map
- Aim: simulation of traffic flow, with intersection control
- Additional feature: driver performanceaggressive/ cautious behaviour
- Output: graphics of traffic flow+ traffic light control strategy

Note: Try to simulate a reasonable section of a town and not just a grid.

Szeged - 2005



Kálmán Palágyi



SSIP'95

3rd Summer School in Image Processing Szeged, Hungary 4-9 September 1995



SSIP'96

4th Summer School in Image Processing Szeged, Hungary



SSIP '98

6th Summer School

on Image Pr Debrecen



SSIP'97

5th Summer Scho on Image Processi Szeged, Hungary 14-19 July 1997



SSIP 2006

14th Summer School on Image Processing

29 June - 8 July 2006 · Szeged, Hungary



4-13 July 2002 · Budapest, Hungary



11th Summer School on Image Proce 3 - 12 July 2003 - Timişoara, Roma



12th Summer School in Image Processing July 2004, Graz - Austria



SSIP 2005

13th Summer School on Image Processing 30 June - 9 July 2005 · Szeged, Hungary

Small Statistics

Venue	Students	Lecturers	Countries
1993 Aveiro	17	3	5
1994 Szeged	36	11	9
1995 Szeged	22	12	5
1996 Szeged	38	10	7
1997 Szeged	36	10	9
1998 Debrecen	38	14	7
1999 Szeged	42	12	10
2000 Zagreb	33	14	10
2001 Szeged	46	21	14
2002 Budapest	36	15	10
2003 Timisoara	36	9	8
2004 Graz	36	24	11
2005 Szeged	32	9	16
2006 Szeged	33	12	12

What we expect from you...

- To take part on SSIP during the whole period
 - to listen talks, to ask questions if you have,
 - to work in your team on the selected project,
 - to write the test.

What you can expect from SSIP ...

- To learn more about image processing
 - to listen interesting talks,
 - to get some practice in understanding, modeling, solving, and applying image processing problems and methods,
 - to know some people from the field of image processing.

We wish you an interesting 14th SSIP and a pleasant stay in Szeged