

SSIP 2007

15th

Summer School on
Image Processing

July 6-15, 2007
Szeged, Hungary



Andrew Todd-Pokropek



Attila Kuba

Goals

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

How to realize?

- Very good students
- Good organizers
- Interesting topics
- Computers
- 10-12 days
- Lot of money?
- Uncountable many!
- Excellent!
- We have a lot!
- Quite good.
- If it is necessary...
- Very little.

Program structure

- Lectures
- Team work
- Test
- Students' session
- Social program

Lectures

- About image processing
(not research talks!)
- In the mornings
- By teachers/researchers of participating universities and sponsoring institutes
- Presentation slides/handouts available electronically

Team work

- International teams of 4-5 students
- Interesting projects with input data
- In the afternoons
- Presentation of results at the end of SSIP
- International jury
- Prizes :-)

Test

- Simple questions from the lectures
- On the last day
- 70 % or more – you are successful
- Certificate (recognized by several universities as an MSc or PhD course)

Social program

- “Coffee” breaks, lunch time, evenings
- Farewell dinner
- Excursion / picnic

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



The first SSIP generation

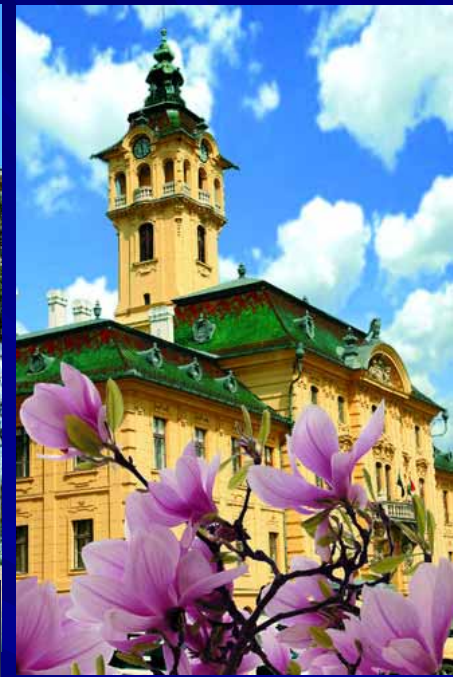
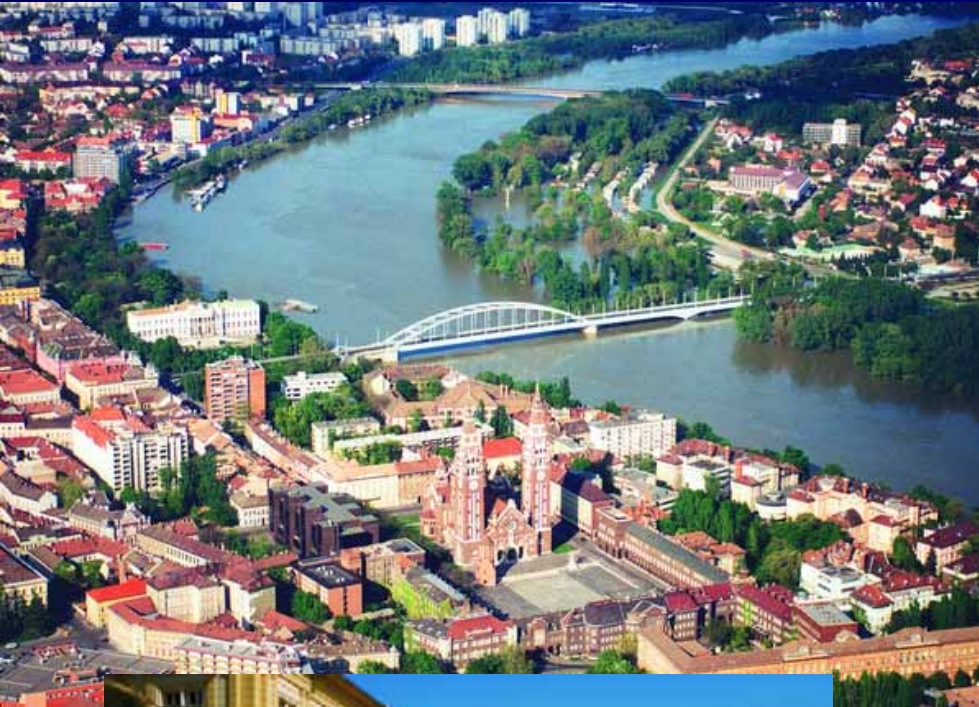


Andrew
Todd-Pokropek

László
Nyúl

Antal Nagy
(behind the camera)

Szeged – City of Sunshine



Szeged – 1994



Marian
Surma

Márta
Fidrich

Jay
Udupa

Attila
Kuba

Szeged – 1994

- Project 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



Szeged – 1996



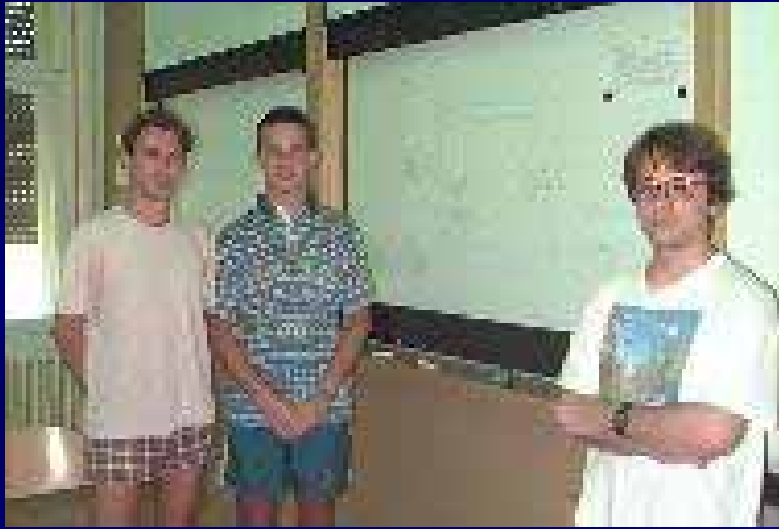
András
Hajdu

Judit
Verestóy

Dmitry
Chetverikov

István Marosi

Team work works



Szeged – 1997



Two „serious” test questions

- 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



Attila Fazekas

University of Debrecen

Debrecen – 1998

- Lecture on Bastille day (July 14th)
- E. Sorantin: CAD in Mammography



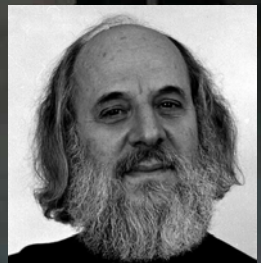
Szeged – 1999



Joakim
Lindblad

Balázs
Erdőhelyi

Antal
Nagy
organizer



Gabor T.
Herman

Ready yet?



Zagreb – 2000



University of Zagreb



Sven Lončarić

Zagreb – 2000

- 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

Szeged – 2001



University of Szeged

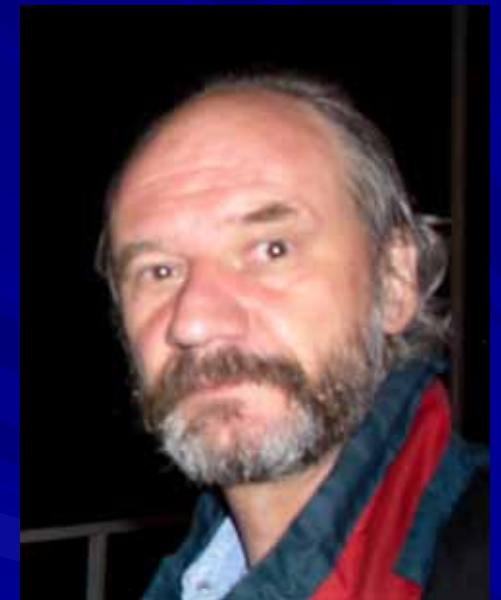


László Nyúl

Social life



Budapest – 2002



Dmitry
Chetverikov

Eötvös Loránd University, Budapest

An interesting view



Timisoara – 2003



West University of Timisoara



Lucian Cucu

Timisoara – 2003



Graz – 2004



Erich Sorantin



Medical University Graz

Graz – 2004

■ Project 5: Traffic simulation

- Input: model of city street or highway map
- Aim: simulation of traffic flow, with intersection control
- Additional feature: driver performance-aggressive/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

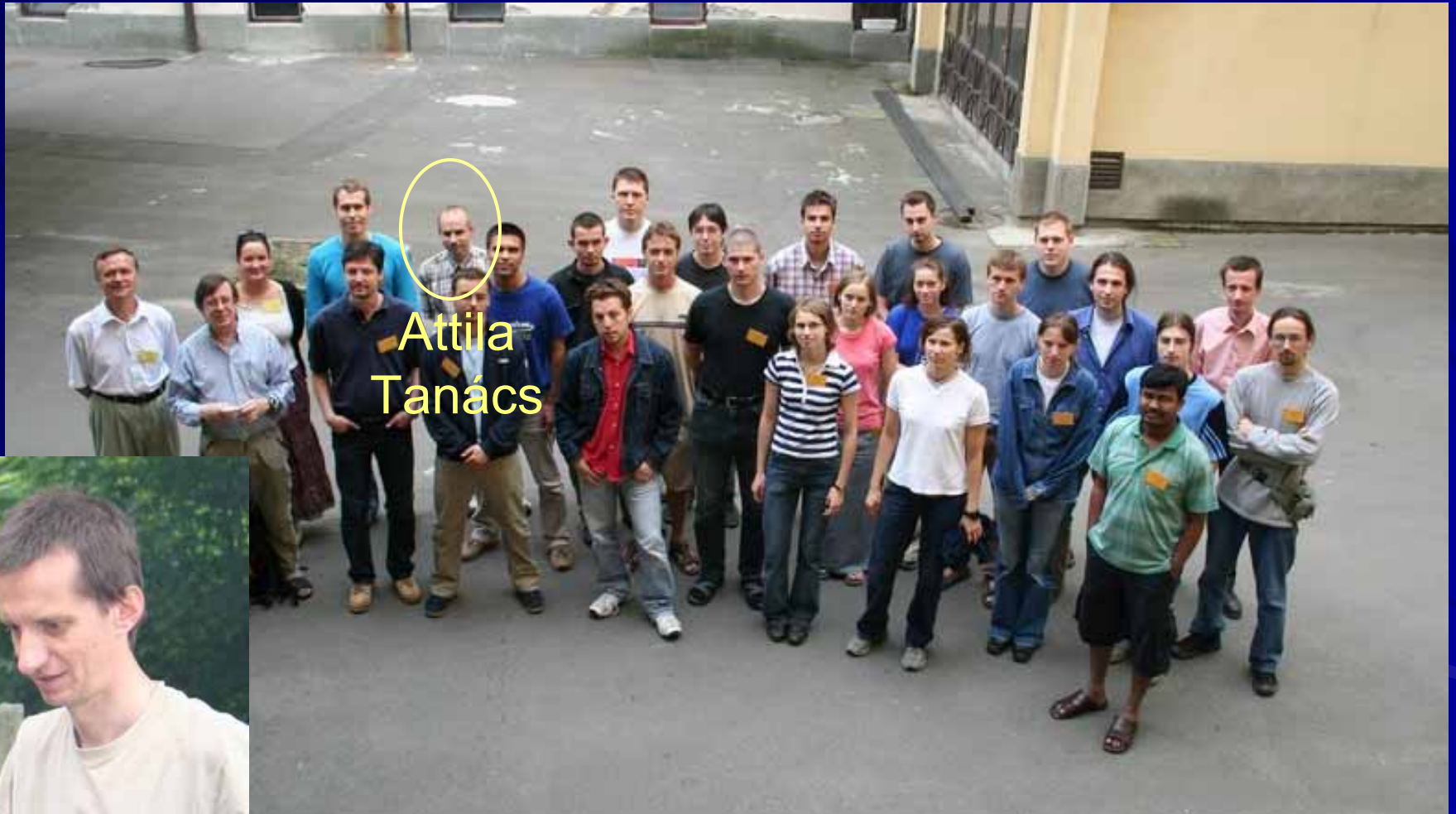


Krisztina
Dombi



Kálmán Palágyi

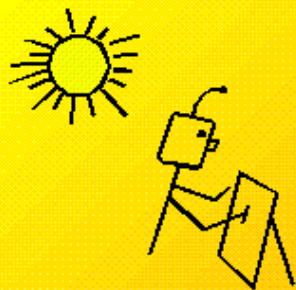
Szeged – 2006



Attila
Tanács



Antal Nagy



SSIP'95

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



SSIP 2001

9th Summer School on Image Processing
12-21 July 2001 • Szeged, Hungary



SSIP'96

**4th Summer School
in Image Processing**
Szeged, Hungary



SSIP 2002

10th Summer School on Image Processing
4-13 July 2002 • Budapest, Hungary



SSIP 2007

15th Summer School on Image Processing
6 July - 15 July 2007 • Szeged, Hungary

July 2004, Graz - Austria



SSIP '98

**6th Summer School
on Image Processing**
Debrecen, Hungary



SSIP 2005

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



SSIP'99

**7th Summer School
on Image Processing**
2-11 July 1999
Szeged, Hungary



SSIP 2006

14th Summer School on Image Processing
29 June - 8 July 2006 • Szeged, Hungary

SSIP statistics

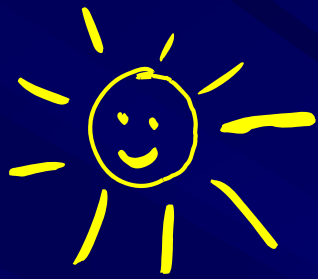
	Venue	Students	Lecturers	Countries
1993	Aveiro, Portugal	17	3	5
1994	Szeged	36	11	9
1995	Szeged	22	12	5
1996	Szeged	38	10	7
1997	Szeged	36	10	9
1998	Debrecen	38	14	7
1999	Szeged	42	12	10
2000	Zagreb, Croatia	33	14	10
2001	Szeged	46	21	14
2002	Budapest	36	15	10
2003	Timisoara, Romania	36	9	8
2004	Graz, Austria	36	24	11
2005	Szeged	32	9	16
2006	Szeged	33	12	12
2007	Szeged	42	23	12
2008	Vienna, Austria	?	?	?

What do we expect from you?

- Take part in SSIP during the whole period
 - listen to talks, ask questions if you have
 - work in your team on the selected project
 - write the test (and succeed)

What can you expect from us?

- Learn more about image processing
 - interesting talks
 - get some practice in understanding, modeling, solving, and applying image processing problems and methods
 - get to know other people from the field



We wish you
an interesting and successful
Summer School
and a pleasant stay in Szeged