

Program of the 2nd International Workshop on Human Interactive Proofs (HIP'2005)

(Preliminary version, as of May 10; subject to change. Please alert us to any typos.)

Day 1 — Thursday, May 19

7:30 - 8:30 *Registration* (Packard Laboratory Lobby) & *Continental breakfast* (PL 466)

8:30 - 8:45 *Welcome & Announcements*: Henry Baird & Dan Lopresti

8:45 - 10:15 *Session I. HIP Architectures* Chair: Jon Bentley

8:45 - 9:15 Tim Converse, "CAPTCHA Generation as a Web Service" (Yahoo!)

9:15 - 9:45 Monica Chew* & J. D. Tygar, "Collaborative Filtering CAPTCHAs" (UC Berkeley)

9:45 - 10:15 Daniel Lopresti, "Leveraging the CAPTCHA Problem" (Lehigh Univ.)

10:15 - 10:45 *Break* (coffee, juices, etc)

10:45 - 11:15 *Invited Talk*:

Patrice Simard, "HIP Design: Synthesis, Analysis, and Usability"

Dr. Simard is manager of the Document Processing and Understanding group at Microsoft Research. He was a Member, Technical Staff at AT&T Bell Laboratories, 1991-1998.

11:15 - 11:45 *Panel-led discussion: HIP Applications, Present & Future* Chair: Jon Bentley

Panel: Converse, Chew, Lopresti, Simard

11:45 *Workshop Photo* (Packard Lab Entrance Steps)

12:00 - 1:15 *Lunch* (University Center, a short walk from Packard Laboratory)

1:15 - 2:45 *Session II. Performance Analysis of CAPTCHAs* Chair: Venu Govindaraju

1:15 - 1:45 Kumar Chellapilla*, Kevin Larson, Patrice Simard, and Mary Czerwinski,
"Building Segmentation-based Human-friendly HIPs" (Microsoft Research)

1:45 - 2:15 Henry Baird*, Michael Moll*, and Sui-Yu Wang,

"A Highly Legible CAPTCHA that Resists Segmentation Attacks" (Lehigh Univ.)

2:15 - 2:45 Yong Rui, Zicheng Liu*, Shannon Kallin, Gavin Janke, and Cem Paya,

"Characters or Faces: a User Study on Ease of Use for HIPs" (Microsoft)

2:45 - 3:30 *Panel-led discussion: HIP R&D Methodologies* Chair: Venu Govindaraju

Panel: Chellapilla, Baird, Liu, plus these authors of Abstracts of Remarks:

Michael Kaplan: "The 3-D CAPTCHA" (5 minutes)

Lee Mitchell* & Mohammed Hoque: "CAPTCHAs from 3D models" (5 minutes)

3:30 - 4:00 *Break* (coffee, juices, etc)

4:00 - 5:30 *Session III. HIP Systems*

4:00 - 4:30 Rachna Dhamija* and J. D. Tygar,

"PHISH and HIPS: Human Interactive Proofs to Detect Phishing Attacks"
(UC Berkeley)

4:30 - 5:00 Amalia Rusu* and Venu Govindaraju,

"Visual CAPTCHA with Handwritten Image Analysis" (Univ. at Buffalo)

5:00 - 5:30 Jon Bentley* and Colin Mallows, "How Much Assurance Does a PIN Provide?"

(Avaya Labs Research)

5:30 - 7:00 *Long Break*: participants may return to their hotels,
join a walking tour of the campus, or
rest in the conference venue in Packard Lab

7:00 - 7:45 *Reception* (Tower Room, Mountaintop Campus)
The Mountaintop campus is a 3-minute drive from Packard Lab.
Participants may drive there; we can also improvise shared rides.

7:45 - 9:30 *Banquet* (Tower Room, Mountaintop Campus)

Keynote Address:

Andrei Broder, “The Story Behind Patent No. 6,195,698 (the First CAPTCHA)”

Dr. Broder is an IBM Distinguished Engineer and the CTO of the Institute for Search and Text Analysis in IBM Research. From 1999 until 2002 he was Vice President for Research and Chief Scientist at the AltaVista Company. Previously he was a senior member of the research staff at Compaq's Systems Research Center in Palo Alto.

Day 2 — Friday, May 20

8:00 - 8:45 *Continental breakfast* (Packard Lab 466)

8:45 - 9:45 *Roundtable discussion* Chair: Dan Lopresti

- Announcements
- Proposals
- Short presentations (please volunteer)
 - e.g.* “Invitation to Attack ScatterType”
Henry Baird, Michael Moll, & Tim Penge (Lehigh Univ.)
- Plans for Future HIP/CAPTCHA Professional Activities

9:45 - 10:00 *Organizing the working groups* Chair: Henry Baird

- pick 2-3 topics
- choose moderators and scribes for each
- break up into separate meeting rooms

10:00 - 10:30 *Break* (coffee, juices, etc)

10:30 - 12:00 *Working group discussions* (Break-out rooms to be determined)

12:00 - 1:00 *Working lunch with reports from working groups*

Box lunches will be provided.

1:00 *Workshop Concludes*