

Learning in the Technological Era: Proceedings of the 9th Chais Conference for the Study of Innovation and Learning Technologies

Editors: Yoram Eshet-Alkalai, Avner Caspi, Nitza Geri, Yoram Kalman,
Vered Silber-Varod, Yoav Yair

Tuesday-Wednesday, February 11-12, 2014

האדם הלומד בעידן הטכנולוגי: ספר הכנס התשיעי לחקר חדשנות וטכנולוגיות למידה ע"ש צ'ייס

עורכים: יורם עשת-אלקלעי, אבנר כספי, ניצה גרי,
יורם קלמן, ורד זילבר-ורוד, יואב יאיר

שלישי-רביעי, י"א-י"ב באדר א תשע"ד, 11-12 בפברואר 2014

אנא פתחו את הספר מצדו השני לתכנים בעברית.

<http://www.openu.ac.il/innovation/chais2014>

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Rinat Shahaf-Barzilay, Dovi Weiss

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Workshop in Hebrew

Treasure-HIT: Location Based Learning With Smartphones

Miky Ronen, Shavit Cohen, Guy Sakal

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Conference Program

Tuesday, February 11, 2014

08:30-9:30 Networking and Registration

9:30-10:45 Opening Session (Chais Auditorium)

Chair: **Vered Silber-Varod**, Organizing Committee Chair, Chais 2014 Conference, The Open University

Welcoming Remarks

Kobi Metzer, President, The Open University

Nitza Geri, Head, The Research Center for Innovation in Learning Technologies, The Open University



Announcing the finalists for the **Best Student Paper Award**

Opening Keynote

Thomas C. Reeves

The University of Georgia, USA

Open Learning Requires Open Minds: The Challenges of Online and Blended Learning Environments for NetGen Students and Their Instructors

10:45-11:00 Coffee Break

11:00-12:00 Parallel Session A

A1 Technology Integration in Science Teaching (Neudorfer Auditorium)

Chair: **Christa Asterhan** (Hebrew University of Jerusalem)



An Online Learning Environment as a Bridge Between the Science Curriculum and 5th Grade Students' Questions

Hani Swirski (Technion – Israel Institute of Technology), Ayelet Baram-Tsabari (Technion – Israel Institute of Technology)



Nominee for Best Student Paper Award

The Effect of Computer Science and Active Simulation Design on Physics Learning

Rivka Taub (Weizmann Institute of Science), Michal Armoni (Weizmann Institute of Science),
Mordechai Ben-Ari (Weizmann Institute of Science)

The Impact of Diagnosing Teacher-Made Erroneous Solutions, With the Aid of On-Line Prompts and Feedback, on Students' Diagnostic Skills

Sawsan Ailabouni (Weizmann Institute of Science), Rafi Safadi (The Arab Academy for Education in Israel; Weizmann Institute of Science), Edit Yerushalmi (Weizmann Institute of Science)

A2 The Impact of ICT on Teachers' Performance

(Chais Auditorium)

Chair: **Gila Kurtz** (The College for Academic Studies)

The Effect of the National ICT Plan on the Changing Classroom Performance of Teachers

Noga Magen-Nagar (Ministry of Education; Gordon Academic College for Education),
Avrum Rotem (Ministry of Education), Tamar Inbal-Shamir (Ministry of Education; The Open University), Roni Dayan (Ministry of Education)

The Relationship Between Teachers' Mastery of Computer Skills and Their Readiness Toward Change – National Information and Communication Technologies Program (ICT)

Gilat Cohen (Oranim Academic College of Education), Galit Berenstok (Oranim Academic College of Education)

**What are the Reciprocal Relationships Between Teachers' Use of Management Information Systems and Their Sense of Accountability?**

Uri Perelman (Institute of Education (IOE), University of London)

A3 Students meet with Prof. Thomas C. Reeves

(Kanbar Hall)

Chair: **Ronen Hammer** (Holon Institute of Technology)

12:00-13:00 Lunch Break

13:00-14:00 Parallel Session B**B1 Technology: Adoption and Resistance**

(Neudorfer Auditorium)

Chair: **Miri Shonfeld** (Kibbutzim College of Education, Technology and Arts)

Teachers' Attitudes Toward the Use of Wikipedia

Hagit Meishar Tal (The Open University; Oranim Academic College of Education, The College for Academic Studies)



The Threat Posed by Transition to Online Courses in Engineering College

David Pundak (ORT Braude College (OBC); Kineret College)

Cloud Computing: A Comparison Between Educational Technology Experts' and Information Professionals' Perspectives

Noa Aharoni (Bar-Ilan University)

B2 Facebook in Teaching

(Chais Auditorium)

Chair: **Alona Forkosh-Baruch** (Levinsky College of Education; Tel Aviv University)

Students' Perceptions of Using Facebook Group and a Course Website as Interactive and Active Learning Spaces

Gila Kurtz (The College for Academic Studies)

Learning Science in Social Networks: Chemical Interactions on Facebook

Shelley Rap (Weizmann Institute of Science), Ron Blonder (Weizmann Institute of Science)

Fourteen Statements and Longing

Arnon Hershkovitz (Tel Aviv University), Alona Forkosh-Baruch (Levinsky College of Education; Tel Aviv University), Rebecca Ang (National Institute of Education, Singapore)

B3 Poster session I

(Kanbar Hall)

Chair: **Gilad Ravid** (Ben-Gurion University of the Negev)

The Role of Team Work in the Assimilation of Changes in Teaching Attitudes and in IT Assisted Teaching Methods

Osnat Akirav (Western Galilee College), Ari Neuman (Western Galilee College)

Galaxy or iPhone? On Smartphones and Fetishism

Diva Zucker (Holon Institute of Technology), Inna Radchenko (Holon Institute of Technology), Ronen Hammer (Holon Institute of Technology)

Training Security Guards – From Lecture to Tutorial

Noam Itiel (Holon Institute of Technology), Almog Yehoshua (Holon Institute of Technology)

The Effect of Keeping a Personal Digital Journal of Happiness (either individually or as a group) on the Level of Well-Being Among Students

Dorin Hoft (Holon Institute of Technology), Hadas Beja (Holon Institute of Technology), Ronen Hammer (Holon Institute of Technology)

PECS for Alternative Communication With Autistic Patients: From Book to Tablet

Baruch Bogale (Holon Institute of Technology), Avi Dantes (Holon Institute of Technology)

The Psychologist's Couch is Closer Than Ever: Online Support Groups Therapy Using Video-Conferencing

Aviya Kapach (Holon Institute of Technology), Maayan Nahum (Holon Institute of Technology)

Our Dropbox: Spontaneous, Long Term Cooperation in Higher Education

Bat-El Toledano Leibovich (Holon Institute of Technology), Shiri Mordechay (Holon Institute of Technology), Miky Ronen (Holon Institute of Technology)

The Teacher as a Friend: Perceived Perceptions of the Effect of Facebook Friendships With Teachers on the Sense of Closeness and Motivation for Learning Among High-School Students

Tair Cohen (Holon Institute of Technology), Mor Tzchaik (Holon Institute of Technology), Ronen Hammer (Holon Institute of Technology)

Home Front Command (HFC) Virtual Reality Training Simulator

Dan Diamant (Holon Institute of Technology), Hamutel Eviatar (Holon Institute of Technology)

A Digital Development Program (DDP) Encouraging Teachers to Teach Digitally

Tal Levy (Ruppin Academic Center), Karen Eini (Ruppin Academic Center)

The Smartphone – Students' New Best Friend? Analyzing the Roles of Smartphones in the Lives of Israeli Students

Vered Malka (Yezreel Valley College), Yaron Ariel (Yezreel Valley College), Ruth Avidar (Yezreel Valley College), Eilat Chen Levy (University of Haifa)

Flipped It and Get It All

Nurit Reich (AMIT educational network), Dan Bouhnik (Bar-Ilan University)

14:00-14:30 Coffee Break and Poster Exhibition Tour

14:30-15:30 Parallel Session C

C1 Teachers' Technological Knowledge (Neudorfer Auditorium)

Chair: **Orit Avidov-Ungar** (Achva Academic College; The Open University)

What Affects the Implementation of ICT in School?

Orit Avidov-Ungar (Achva Academic College; The Open University), Fani Arazi Cohen (Achva Academic College)

The Effect of PICTK and TPACK Knowledge on the Sense of Empowerment in ICT Instructors

Noga Magen Nagar (Ministry of Education; Gordon College of Education), Orit Avidov-Ungar (Achva Academic College; The Open University)



Assimilation of Novel Pedagogy in Teachers' Training College: The Viewpoints of Teachers' Instructors' in a Teachers' Training College – a Case Study

Orit Avidov-Ungar (Achva Academic College; The Open University), Irit Ema-Iluz (Achva Academic College; Be'eri School)

C2 Video Implementation in Teaching

(Chais Auditorium)

Chair: **Yoav Yair** (The Open University)

Varied Styles of Remote Teaching Employed During Video-Based Teaching Sessions and Frontal Classes at The Open University of Israel

Eran Livny (The Open University), Yoav Yair (The Open University)

Screencast Feedback to Students' Artifacts: Potential and Challenges

Miky Ronen (Holon Institute of Technology), Yehuda Raz (Holon Institute of Technology), Shahar Akam (Holon Institute of Technology)

Emerging Patterns of Online Video Lectures and Handheld Mobile Devices Use for Exam Preparation

Nitza Geri (The Open University), Ruti Gafni (The Academic College of Tel Aviv Yaffo, The Open University), Amir Winer (The Open University)

C3 Poster Session II

(Kanbar Hall)

Chair: **Ronit Bogler** (The Open University)

Interactive Whiteboards in the Kindergarten – a Unique Teacher Training Experience

Liat Eyal (Levinsky College of Education), Ora Segal-Drori (Levinsky College of Education), Shira Barak (Levinsky College of Education), Galit Fadlon (Levinsky College of Education)

Teacher-Student-Computer Interactions in Time to Know Lessons, Through the Lenses of Informal Assessment for Learning (AFL)

Rinat Shahaf-Barzilay (Time To Know and The Open University), Dovi Weiss (Time To Know)

Learning With Facebook: Preparing for the Mathematics Bagrut – a Case Study

Yaniv Biton (CET, Shaanan College), Sara Hershkovitz (CET, Shaanan College)

A Living and Kicking Virtual Magazine – an Interactive Magazine Accompanying a Conference

Yoram Orad (Mofet Institute), Smadar Bar Tal (Mofet Institute, Levinsky College of Education), Miri Shonfeld (Kibbutzim College of Education, Technology and Arts)

Social Patterns of Mobile Applications Usage Amongst Early Adopters of Technology

Ruthi Aladjem (Tel Aviv University), Rafi Nachmias (Tel Aviv University)



Learning Experience in MOOCs Forums

Dalit Mor (Tel Aviv University), Anat Cohen (Tel Aviv University)

Young Children Construct Planning Skills via Programming the Behavior of a Virtual Robot Using Tangible Programming Language

Gonen Raveh (Tel Aviv University), David Mioduser (Tel Aviv University)

MOOC: About learning Tools and Styles

Eli Merkel (Tel Aviv University), Anat Cohen (Tel Aviv University), Rafi Nachmias (Tel Aviv University)

The Use of a Video Camera as Means of Enhancing Communication Skills in Child With Autistic Spectrum Disorder: Case Study

Valery Ziganchin-Gamlieli (Kibbutzim College of Education, Technology and Arts), Betty Shrieber (Kibbutzim College of Education, Technology and Arts)

15:30-16:00 Coffee Break and Poster Exhibition Tour

16:00-16:45 Closing Session

(Neudorfer Auditorium)

Chair: **Avner Caspi** (The Open University)

Eilon Vaadia

(The Edmond and Lily Safra Center for Brain Sciences,
The Hebrew University of Jerusalem)

The Creative Mind and Brain-Machine Interfaces

Wednesday, February 12, 2014

8:30-9:30 Networking and Registration

09:30-10:30 Opening Session (Chais Auditorium)

Chair: **Yoram Eshet-Alkalai** (Program Committee chair, Chais 2014 conference, The Open University)



Best Student Paper Award

Opening keynote

Eszter Hargittai

Northwestern University, USA

Differentiated Internet Skills – Sources and Implications

10:30-10:45 Coffee Break

10:45-11:45 Parallel Session D

D1 Traditional Versus Digital Technologies (Neudorfer Auditorium)

Chair: **Sigal Eden** (Bar-Ilan University)

Inappropriate But Common: The Perception of Academic Dishonesty in Print and Digital Formats Among School Students

Ina Blau (The Open University), Yoram Eshet-Alkalai (The Open University)

The Influence of Text Annotation Tools on Print and Digital Reading Comprehension

Gal Ben-Yehuda (The Open University), Yoram Eshet-Alkalai (The Open University)

Participation and Motivation Among Students With Intellectual Disability: Technological Intervention vs. Traditional Intervention

Hind Jbarah (Bar-Ilan University), Sigal Eden (Bar-Ilan University)

D2 Technology and Teachers' Professional Development (Chais Auditorium)

Chair: **Yael Kali** (University of Haifa)

Innovative Thinking and ICT Expertise of Undergraduate Students in Education

Sigal Morad (Technion – Israel Institute of Technology), Noa Ragonis (Technion – Israel Institute of Technology), Miri Barak (Technion – Israel Institute of Technology)



Nominee for Best Student Paper Award

A Chaperone: Twitter for Professional Guidance, Social Support and Personal Empowerment in Online Workshops

Efrat Pieterse (The Open University), Yehuda Peled (The Western Galilee College)

Teachers as Design-Researchers of Technology-Enhanced Learning

Ornit Sagy (University of Haifa), Yael Kali (University of Haifa)

D3 Students meet with Prof. Eszter Hargittai

(Kanbar Hall)

Chair: **Yoram Kalman** (The Open University)

11:45-12:45 Lunch Break

12:45-13:45 Parallel Session E

E1 Knowledge Assessment

(Neudorfer Auditorium)

Chair: **Sarit Barzilai** (University of Haifa)

Who Wrote That? Thinking About the Sources of Conflicting Online Information

Sarit Barzilai (University of Haifa), Eynav Tzadok (The Open University), Yoram Eshet-Alkalai (The Open University)

Temporal Patterns of Scientific Information-Seeking on Google and Wikipedia

Elad Segev (Tel Aviv University), Aviv J. Sharon (Weizmann Institute of Science), Ayelet Baram-Tsabari (Technion – Israel Institute of Technology)

Metacognitive Aspects of Writing Personal-Reflective Diaries in a Wiki-Enhanced Collaborative Learning Environment

Ruti Gofer (University of Haifa), Dani Ben-Zvi (University of Haifa)

E2 Gamification


(Chais Auditorium)

Chair: **Daphne Raban** (University of Haifa)

Serious Games in Free-Choice Setting: Cooperating with Teen Leaders to Blend Learning and Fun

Jacob Dayan (University of Haifa), Yael Kali (University of Haifa)

 **Do Extroverts Have More Fun? Educational Gamification For Extroverts and Introverts**

 David Codish (Ben-Gurion University of the Negev), Gilad Ravid (Ben-Gurion University of the Negev)

The Influences of Computerized Instructional Games on the Learning of Arithmetic for Low Achievers

Orit Broza (The Hebrew University of Jerusalem; Snunit Center for the Advancement of Web Based Learning), Yifat Ben David Kolikant (The Hebrew University of Jerusalem)

E3 Poster Session III

(Kanbar Hall)

Chair: **Miri Barak** (Technion – Israel Institute of Technology)

Students' Perceptions of the Contribution of a Facebook Group as an Informal Learning Space

Gila Kurtz (The College for Academic Studies), Nehad Masri (The College for Academic Studies)

Producing an Online School Newspaper by Students with Learning Disabilities as an Empowering Experience

Inbal Smith (The College for Academic Studies), Gila Kurtz (The College for Academic Studies)

When Architecture Encounters Pedagogy

Livia Lobel (The College for Academic Studies), Ronit Hanoch (The college for Academic Studies), Gila Levi-Atzmon (The college for Academic Studies), Yona Miller (The college for Academic Studies)

Cyber Involvement and Vulnerability Among College Students With and Without Disability

Tali Heiman (The Open University), Dorit Olenik Shemesh (The Open University), Gali Cohen (The Open University; Kibbutzim College of Education, Technology and Arts)

Reactions to Cyberbullying and Coping Strategies Among Junior High School Students

Tali Heiman (The Open University), Dorit Olenik Shemesh (The Open University), Gali Frank (The Open University; CET)

The Development of Norms in a Technology-Enhanced Classroom Learning Community (TCLC)

Jacqueline Basil-Shachar (University of Haifa), Yotam Hod (University of Haifa), Dani Ben-Zvi (University of Haifa)

Promoting Visible Thinking About the Design of Meaningful Digital Learning Materials

Devorah Preiss (David Yellin Academic College of Education; Efrata College of Education)

Social Network as a Contributing Factor in Creating a School Principal Learning Community

Tzvi Bodenheimer (University of Haifa)

The School Principal as Leader in the Implementation of the Technological and Pedagogical Reform Conducted by the State. A Study in Schools Implementing the National ICT Program, "Adjusting the Education System to the 21st Century"

Gilat Cohen (Oranim Academic College of Education)

Patterns of Technology Use and Multitasking Behaviors in Israeli Youth

Karen Ettinger (Tel Aviv University), Rafi Nachmias (Tel Aviv University), Anat Cohen (Tel Aviv University)

Preparing Pre-Service Teachers for Sophisticated Epistemic Thinking, Self-Regulated Learning and Teaching in Technological Learning Environment

Mary Gutman (Efrata College of Education), Bracha Kramarski (Bar-Ilan University)

E4 workshop, part A

(Krueger Hall)

In Search of the Treasure: Location-Based Experience Learning Using Smartphones

Miky Ronen (Holon Institute of Technology), Shavit Cohen (Holon Institute of Technology), Guy Sakal (Holon Institute of Technology)

13:45-14:15 Coffee Break and Poster Exhibition Tour

14:15-15:15 Parallel Session F

F1 Communities in the Cyberspace

(Neudorfer Auditorium)


Chair: Gal Ben-Yehuda (The Open University)

From Multi-Disciplinary Instruction to Interdisciplinary Learning – the Power of Technology Enhanced Learning Communities

Adi Kidron (University of Haifa), Yael Kali (University of Haifa)

Passive Participation in Communities of Practice: Scope and Motivations

Azi Lev-On (Ariel University), Odelia Adler (Ben-Gurion University of the Negev)

 **Productive Failure in an Emerging Learning Community: A Group Developmental Perspective**

Yotam Hod (University of Haifa), Dani Ben-Zvi (University of Haifa)


F2 The Effect of Technologies on Behavior

(Chais Auditorium)

Chair: Ina Blau (The Open University)

Analysis of Students' Activity on Course Websites as a Tool for Predicting Termination of Studies

Hagit Limor (Tel Aviv University), Anat Cohen (Tel Aviv University)



Cooperative or Competitive? Positive and Negative Consequences of the Interaction Between Gamers Aggression Baseline and Game Characteristics

Angela Nahra (University of Haifa), Ina Blau (The Open University), Sheizaf Rafaeli (University of Haifa)

Mobile Devices in Lectures: Uses and Implications for the Learning Process

Gila Kurtz (The College for Academic Studies), Hagit Meishar Tal (The Open University; Oranim Academic College of Education; The College for Academic Studies)

F3 Poster Session IV

(Kanbar Hall)

Chair: **Judit Bar Ilan** (Bar-Ilan University)

Technological learning Experience: Game Development for Tablet Computers and its Integration in Early Childhood Special Education

Tamar Yesha (Levinsky College of Education), Shani Schwarzblat (Levinsky College of Education), Liat Eyal (Levinsky College of Education)

Effectiveness of In-Service Teachers' Mathematics Teaching: Comparing ICT Lessons with Traditional Lessons

Rawan Anabousi (Alqasemy Academic College of education), Wajeeh Daher (Alqasemy Academic College of education), Nimer Bayaa (Alqasemy Academic College of education)

The Effect of Integration of Learning Management System – the MOODLE – in Science Classes at Junior High Schools

Shmuel Arnon (Gordon College of Education), Mazal Gudman (Gordon College of Education)

Has the Continuing Education Program "Laptop for Every Teacher" Brought the Change?

Sara Perzon (The Open University), Yehuda Peled (Western Galilee College)

Designing Educational Games in Science

Ayelet Weizman (Snunit center for the advancement of web-based learning)

Using Facebook for School Work Purposes: High School Student Perspectives

Edith Bouton (The Hebrew University of Jerusalem), Christa Asterhan (The Hebrew University of Jerusalem)

Facebook Language: Linguistic Features and Influence on Normative Writing

Yifat Elkayam (Beit Berl College), Aviva Klieger (Beit Berl College)

IT and Chemistry Education – First Survey in Israel – Results and Applications

Rachel Rosanne Eidelman (Weizmann Institute of Science), Yael Shwartz (Weizmann Institute of Science), Shelly Livne (Weizmann Institute of Science)

Touch Screen Technology and the Third age: Aging 2.0 Model

Elena Simonovsky (Kibbutzim College of Education, Technology and Arts), Dalit Levy
(Kibbutzim College of Education, Technology and Arts)

F4 Workshop, Part B

(Krueger Hall)

In Search of the Treasure: Locatio-Base Experience Learning Using Smartphones

Miky Ronen (Holon Institute of Technology), Shavit Cohen (Holon Institute of Technology),
Guy Sakal (Holon Institute of Technology)

15:15-15:45 Coffee Break and Poster Exhibition Tour

15:45-16:30 Closing Session

(Neudorfer Auditorium)

Chair: **Nitza Geri**, Head, The Research Center for Innovation in Learning Technologies,
The Open University

Kfir Damari

SpaceLL

**Shooting for the Moon – a Guide to
Pedagogical-Technological Initiatives
That Make Dreams Comes True**

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