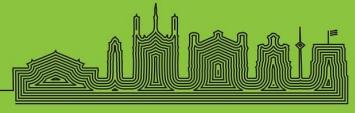


## **Constructionism 2018**

Constructionism, computational thinking and educational innovation



Vilnius, Lithuania, August 21 to 25

## Conference program

Monday	/, August 20 Teachers' day (Pre-Conference)					
9 <sup>00</sup> -10 <sup>00</sup>	Registration & Coffee (in front of the Theatre Hall)					
10 <sup>00</sup> –12 <sup>00</sup>	Opening Session: Main Building, The Theatre Hall (Universiteto St. 3) Welcome Giedrius Vaidelis (Lithuania). Updating Educational Content: Challenges and Possibilities Evgenia Sendova (Bulgaria). The Beauty in Science and the Science in Beauty Rimantas Želvys (Lithuania). Future Education: New Challenges for Lithuania?					
12 <sup>00</sup> -13 <sup>00</sup>	Lunch Registration in the Faculty of Philosophy (Universiteto St. 9)					
1300-1500	<ul> <li>Workshops (WS) in parallel: The Faculty of Philosophy (Universiteto St. 9)</li> <li>WS 1: room 106. Judith Bell (New Zealand). Dynamic Teaching Ideas for Teaching Music Theory. Target audience: primary school teachers &amp; music teachers</li> <li>WS 3: room 204. Paul Goldenberg, Cynthia J. Carter (USA). Developing Algebraic Habits of Mind in Students. Target audience: mathematics teachers for students ages 11–18</li> <li>WS 7: room 111. Petra Enges-Pyykönen (Finland). ViLLE – Electronic Learning Path for Mathematics and Programming. Target audience: primary school teachers</li> <li>WS 8: room 201. Evgenia Sendova, Nikolina Nikolova (Bulgaria). Constructionism in Action: Do we Need to Start from Scratch? Target audience: all teachers</li> <li>WS 9: room 313. Gary Stager (USA). Teaching Coding and Physical Computing. Target audience: all teachers</li> <li>WS 10: room 112. Jacqueline Staub (Switzerland). The Essence of Programming at School – Logo in a Spiral Curriculum. Target audience: primary and lower secondary school teachers</li> <li>WS 11: room 308. Carol Sperry Suziedelis (USA). How to Create and Sustain a Progressive Pedagogy in a Traditional Setting. Target audience: all teachers</li> <li>WS 13: room 306. Annalise Duca, Angele Giuliano (Malta), Sofia Nikitopoulou, Nikoleta Yiannoutsou, Chronis</li> </ul>					
15 <sup>00</sup> –15 <sup>30</sup>	Kynigos (Greece). <i>The ER4STEM Repository for Educational Robotics</i> . Target audience: all teachers Coffee break					
15 <sup>30</sup> -17 <sup>00</sup>	<ul> <li>Workshops (WS) in parallel: The Faculty of Philosophy (Universiteto St. 9).</li> <li>WS 2: room 106. Tim Bell (New Zealand). Computer Science Unplugged for Teachers. Target audience: primary school teachers</li> <li>WS 4: room 204. Paul Goldenberg, Cynthia J. Carter (USA). Puzzles &amp; Programming to Develop Mathematical Habits of Mind in 6–10-year Olds. Target audience: primary school teachers for students ages: 6–10</li> <li>WS 5: room 201. Ivan Kalaš (Slovakia). Powerful Ideas in Lower Primary Programming: High Time to Recognize Them. Target audience: educators interested in lower primary computing (pupils aged 5 to 9) and general primary teachers</li> <li>WS 6: room 111. Witek Kranas (Poland). SNAP! - Beauty &amp; Joy of Computing (visually). Target audience: informatics teachers, lower and upper secondary schools (6-12 grades)</li> <li>WS 8: room 401. Evgenia Sendova, Nikolina Nikolova (Bulgaria). Constructionism in Action: Do we Need to Start from Scratch? Target audience: all teachers</li> <li>WS 9: room 112. Jacqueline Staub (Switzerland). The Essence of Programming at School – Logo in a Spiral Curriculum. Target audience: primary and lower secondary school teachers</li> <li>WS 11: room 308. Carol Sperry Suziedelis (USA). How to Create and Sustain a Progressive Pedagogy in a Traditional Setting. Target audience: all teachers</li> <li>WS 12: room 205. Igor Verner, Khayriah Massarwe, Daoud Bshouty (Israel). Joyful Learning of Geometry in Cultural Context. Analysis and Construction of Geometric Ormaments. Target audience: all teachers</li> <li>WS 13: room 306. Annalise Duca, Angele Giuliano (Malta), Sofia Nikitopoulou, Nikoleta Yiannoutsou, Chronis</li> </ul>					
1700-1800	Kynigos (Greece). The ER4STEM Repository for Educational Robotics. Target audience: all teachers           Reflections and Panel Discussion: room 301					

Tuesday, August 21 / Location: Main Building, The Theatre Hall (Universiteto St. 3)						
8 <sup>30</sup> –all day	Registration					
1000-1130	Excursion to Old Vilnius University I					
11 <sup>30</sup> –13 <sup>00</sup>	Excursion to Old Vilnius University II					
14 <sup>00</sup> –16 <sup>00</sup>	Session chair: <b>Valentina Dagienė</b> Opening <u>Plenary session I</u> Rimantas Želvys. One Hundred Years of Educational Development in Lithuania					
1000 1030	James Clayson. Look Closely, Watch	What Happens: Visu	al Modelling and Constru	Ictionism		
16 <sup>00</sup> –16 <sup>30</sup>	Coffee break Session chair: Arūnas Poviliūnas					
16 <sup>30</sup> –17 <sup>30</sup>	Plenary session II Gary Stager. Making Constructionism	Great Again				
	Panel Discussion I	Groat rigan				
17 <sup>30</sup> –18 <sup>30</sup>	Inside the Trojan Horse – A Discussion Sylvia Martinez (moderator), Gary Stag Smith, Jaymes Dec	ger, Amy Dugré, Ang				
18 <sup>30</sup> –19 <sup>30</sup>	Welcome Reception / Location: Grand	l Courtyard				
Wedne	sday, August 22 / Location: The	Faculty of Philos	ophy (Universiteto St	9)		
	Session chair: Gerald Futschek Plenary session III: room 301		Session chair: <b>Chronis Kynigos</b> Plenary session IV: room 302			
8 <sup>30</sup> –10 <sup>30</sup>	<b>Carol Sperry Suziedelis.</b> The Evolution Constructionist Teacher (with Reminder Papert)	ers from Seymour Outcome for Constru		d Noss. Scratchmaths: A Positive tionism at Scale ning in Lower Primary Years: Design		
	Evgenia Sendova. Back 100 000(2)	l. room 201	Principles and Powerful Panel discussion II roo	Ideas		
10 <sup>30</sup> – <mark>11<sup>00</sup></mark>	Working Group (WG) presentations WG 2: Don Passey, Loice Victorine A Baumann, Valentina Dagienė. Develop Constructionism, or a New Learning C Ages.	tieno, Wilfried <i>bing</i>	om 302 /e <b>.</b> ator), Matthew Berland, Yasmin slia Hoyles, Kylie Peppler, Debbie			
11 <sup>00</sup> –11 <sup>30</sup>	Coffee break		Fields			
	Session chair: Natasa Grgurina Paper session 1: room 301 Education and innovations	Session chair: Evgenia Sendova <u>Paper session 2</u> : room 302 Constructionism in Mathematics		Session chair: <b>Eglė Jasutė</b> <u>Workshop 1</u> : room 111		
	Arthur Hjorth, Corey Brady, Uri Wilensky. Sharing is Caring in the Commons – Students' Conceptions about Sharing and Sustainability in Social-Ecological Systems	Chantal Buteau, Ana Isabel Sacristán, Eric Muller. Teaching in a Sustained Post- Secondary Constructionist Implementation of Computational Thinking for Mathematics		Jacqueline Staub. The Essence of Programming at School – Learning for Life Workshop 2: room 111		
11 <sup>30</sup> –13 <sup>30</sup>	Arthur Hjorth, Uri Wilensky. Urban Planning-in-Pieces: A Computational Approach to Understanding Conceptual Change and Causal Reasoning about Urban Planning	Projects in Construct Statistics Courses for Science Students Christina Todorova	through Exploratory ctionist R-based or Environmental a, Carina Girvan,	Stephen Howell, Lizbeth Goodman. Developing Body Tracking Software with Scratch and Kinect		
	Sugat Dabholkar, Gabriella Anton, Uri Wilensky. Developing Mathetic Content Knowledge Using an Emergent Systems Microworld	Ivaylo Gueorguiev, George Sharkov. W with the MathBot: A to Explore Mathema	sou, Marianthi Grizioti, Pavel Varbanov, /isualizing Mathematics Constructionist Activity atical Concepts through			
	Elmara Pereira de Souza, Luísa Moura. Constructionism as an Epistemological Option in Courses of Youth Center for Science and Culture – Bahia – Brazil	Robotics Einari Kurvinen, Va Mikko-Jussi Laaks Effectiveness of Teo Mathematics Learni	<b>o.</b> The Impact and chnology Enhanced			
13 <sup>30</sup> –14 <sup>30</sup>						
	Session chair: Gabrielė Stupurienė Working Group (WG) presentations					
14 <sup>30</sup> –16 <sup>00</sup>	<u>WG 1</u> : <b>Gerald Futschek, Bernhard S</b> Buteau, Andrew Csizmadia, Lilia Geor	<u>5 1</u> : <b>Gerald Futschek, Bernhard Standl,</b> Chantal eau, Andrew Csizmadia, Lilia Georgieva, Lina ikienė, Jane Waite. <i>Constructionist Approaches to</i>		WG <u>3</u> : <b>Evgenia Sendova,</b> Christos Chytas, Katarzyna Olędzka, Ralf Romeike, Wolfgang Slany. <i>Creating and</i> <i>Looking at Art with Logo Eyes</i> .		

	<ul> <li>WG 5: Michael Weigend, Kazunari Ito, Anita Juškevičienė, Igor Pesek, Zsuzsa Pluhár, Jiří Vaníček. Constructionism in the Classroom: Creative Learning Activities on Computational Thinking.</li> <li>WG 6: Mattia Monga, Michael Lodi, Dario Malchiodi, Anna Morpurgo, Oluwakemi Oduwole, Bamidele Oluchi, Bernadette Spieler. Learning to Program in a Constructionist Way.</li> </ul>		WG 4:Lilija Duoblienė, Jūratė Baranova, Luc Anckaert,Wilfried Baumann .The Constructive Strategies in Teaching Humanities with Films.WG 7:Ana Isabel Sacristán, Richard Akrofi Kwabena Baafi, Lina Kaminskienė, Michael Sabin. Constructionism in Upper Secondary and Tertiary Levels.			
	Coffee break					
<u>P</u>	Session chair: <b>Mattia Monga</b> Paper session 3: room 301 Computational Thinking	Session chair: Jiří V Paper session 4: ro Constructionist ap	room 302 Paper session 5: room 30			
C L K ta II L	Judith Bell, Tim Bell. Computational Thinking and Music Learning Marianthi Grizioti, Chronis Kynigos. Programming Approaches to Computational Thinking: Integrating Turtle Geometry, Dynamic Manipulation and 3D	<ul> <li>Valentina Dagienė, Gabrielė Stupurienė.</li> <li>Short Tasks – Big Ideas: Constructive</li> <li>Approach for Learning and Teaching of</li> <li>Informatics Concepts in Primary Education.</li> <li>Miroslava Černochová, Radek Čuma,</li> <li>Hasan Selcuk. Forming Concepts for</li> <li>Programming Conditional Statements in</li> <li>the Primary School</li> </ul>		Nicolas Pope, Jonathan Foss, Meurig Beynon. Reconstructing Constructionism by Construal Deborah Fields, Mia Shaw, Yasmin Kafai. Personal Learning Journeys: Reflective Portfolios as "Objects-to-Learn-With" in an E- textiles High School Class		
N	Space Marianthi Grizioti, Chronis Kynigos. Constructionist Approaches to Computational	Jean Griffin. Constructionism and De- Constructionism as Complementary Pedagogies Tilman Michaeli, Stefan Seegerer, Ralf Romeike. Enabling Collaboration and Tinkering: A Version Control System for Block-based Languages Jake Rowan Byrne, Kevin Sullivan, Katriona O'sullivan. Active Learning of Computer Science Using a Hackathon-like Pedagogical Model		<b>Evgeny Patarakin.</b> Using Agent- based Modelling of Collaboration for Social Reflection		
7 M A D C	Thinking: A Case of Game Modding with ChoiCo Anita Juškevičienė, Valentina Dagienė. Interconnection Between Computational Thinking and Digital Competence			Francesca Agatolio, Alfredo Asiain, Alfredo Pina, Gabriel Rubio, Michele Moro. Constructive and Collaborative Digital Storytelling for Enhancing Creativity and Cooperation In and Out of School		
Thursday	hursday, August 23 / Location: The Faculty of Philosophy (Universiteto St. 9)					
<u>P</u>	Session chair: <b>Gary Stager</b> <u>Plenary session V</u> : room 301 <b>Gerald Futschek.</b> <i>Computational Thinking and Creativity</i>		Session chair: James Clayson <u>Plenary session VI</u> : room 302 Uri Wilensky. Reempowering powerful ideas			
800-1000	Tim Bell. CS Unplugged and Computational thinking		<b>Paulo Blikstein.</b> Constructionism Won, Now What? The Role of Constructionist Research in the Age of Ubiquitous Computing			
	Session chair: Anita Juškevičienė Poster Session I: room 301		Session chair: Lina Vinikienė Poster Session II: room 302			
N	Nalin Tutiyaphuengprasert. Applied Constructionism: Critical Reflection and Learning Through Play in Adult Learning		Michael Tan. Constructing what? Knowledge of the powerful, and powerful knowledge			
T C E	<ul> <li>Sawaros Thanapornsangsuth, Nathan Holbert, Monica Chan. Towards Girls' Self-perception in Technology and Craft: Challenges and Implications</li> <li>Enric Ortega Torres, Vincent Sanjosé López, Joan-Josep Solaz Portolés. Influence of Students' Self-perceived Use of Metacognitive Strategies and Sensory Preferences on Academic Achievement in Science and Technology</li> <li>Takeshi Watanabe, Yuriko Nakayama, Yasunori Harada, Yasushi Kuno. Programming Lessons for Kindergarten Children in Japan</li> </ul>		Carina Girvan, Wilfried Lepuschitz, Ivaylo Gueorguiev, Christina Todorova, Chronis Kynigos, Marianthi Grizioti, Angele Giuliano, Annalise Duca, Julian Mauricio Angel-Fernandez, Markus Vincze. Educational Robotics for STEM: From Workshops to Curricula and Framework Ivaylo Gueorguiev, Christina Todorova, Nikoleta Yiannoutsou, Xristina Greka, Pavel Varbanov, George Sharkov, Carina Girvan, Julian Mauricio Angel-Fernandez, Lisa Vittori, Annalise Duca. Towards a Generic Curriculum for Educational Robotics in STEM: From Scientific Concepts to Technologies and Powerful Ideas			
10 <sup>30</sup> -11 <sup>00</sup>						
S A	Sayaka Tohyama, Yugo Takeuchi. Collaborative Creative Music Activity with ICT: A Case Study for Children in Grade Five		Barbara Sabitzer. Modeling Across the Subjects			
E	Yoshiaki Matsuzawa, Misako Noguchi, Issei Nakano. Exploration of Algorithm Abstraction Process with Cubetto and Middle Grade Elementary Kids		Jinbao Zhang. An Experimental Exploration of the Development of Design Thinking in University Maker Courses			
A	Middle Grade Elementary Kids Aoi Yoshida, Kazunari Ito, Kazuhiro Abee. A Practical Report		Márton Visnovitz, Győző Horváth. The Web – A Platform for Creation Pokka Mäkiaba, Timo Boranon, Katrijna, Vartiainan, Construction			
L	on a Programming Course with "Making" Using micro:bit Liudmyla Kryvoruchka. Heuristic Potential of Open Institutional Models in Researchers Education.		Pekka Mäkiaho, Timo Poranen, Katriina Vartiainen. Constructionof a Project Monitoring Application Iteratively and IncrementallyLina Vinikienė, Valentina Dagienė. Different Cultures – Different			
11 <sup>00</sup> –11 <sup>30</sup> C	Coffee break		Approaches to Reasoning and Algorithms			

	Session chair: Jacqueline Staub <u>Paper session 6</u> : room 301 Programming education	Session chair: Wolfgang Slany Paper session 7: room 302 Robotics		Session chair: <b>Ana Isabel</b> <b>Sacristán</b> <b>Paper session 8:</b> room 306	
11 <sup>30</sup> -13 <sup>30</sup>	Jiří Vaníček. Concept-building Oriented Programming Education Ungyeol Jung, Young Jun Lee. The Direction and Possibility for Social Justice in Informatics Education based on Bebras Challenge in Republic of Korea Ken Kahn, Niall Winters. Al Programming by Children Elisabeth Wetzinger, Gerald Futschek, Bernhard Standl. A Creative Learning Sequence in an Introductory Programming MOOC	Robotics Julian Mauricio Angel Fernandez, Nikoleta Yiannoutsou, Chronis Kynigos, Carina Girvan, Markus Vincze. Towards a Framework for Educational Robotics Flavio Campos. Design Curriculum for Educational Robotics: Constructionist Pedagogical Experience in Formal Education Dave Catlin, Martin Kandlhofer, Stephanie Holmquist, Andrew Paul Csizmadia, Julian Mauricio Angel Fernandez, John-John Cabibihan. EduRobot Taxonomy and Papert's Paradigm Karolína Mayerová, Michaela Veselovská. How Students Struggled with		ds       Knowledge in Maker Education: A Constructivist Perspective         Panel discussion III: room 306         Constructionism across Cultures:         Commonalities and Differences of         Constructionist Implementations         Around the World         joined with papers         Jose Armando Valente, Paulo         Blikstein. Constructionism in         Different Cultures: the case of         Brazil &         Deborah Fields, Paulo Blikstein.         What Is Constructionism? Views         from a Thai Perspective	
		Preparation of Activ Robotic Workshop	rities for a Leisure Ti	me Jose Armando Valente (moderator), Paulo Blikstein, Deborah Fields, Michael Tan	
13 <sup>30</sup> –14 <sup>30</sup>	Lunch				
14 <sup>30</sup> -22 <sup>00</sup>	Excursion & Dinner				
Friday	August 24 / Location: The Facu	Ity of Philosophy (	Universitete St. (	<u>, , , , , , , , , , , , , , , , , , , </u>	
rnuay,	Session chair: Ivan Kalaš			e Armando Valente	
	Plenary session VII: room 301		Plenary session		
8 <sup>30</sup> -10 <sup>30</sup>	Paul Goldenberg. Teaching Children Posers and Puzzle-creators in Mather		Catrobat, an Extre		
	Ana Isabel Sacristán. Constructionis Mathematics across Educational Leve		Gary Stager, co-s	eaker <b>Sylvia Martinez.</b> Turning Theory eading Constructionism	
	Paper session 9: room 301	<u>Demo session 1</u> : ro			
10 <sup>30</sup> -11 <sup>00</sup>	<b>Tiina Partanen, Pia Niemelä, Timo F</b> Programming Material for Finnish Ele Education			emens Koza, Wilfried Lepuschitz, steiner. Hedgehog: A Versatile Controller botics	
11 <sup>00</sup> –11 <sup>30</sup>	Coffee break				
	Session chair: <b>Miroslava</b> Černochová <u>Paper session 10</u> : room 301 Designing activities	Paper session 11: room 302		Session chair: <b>Don Passey</b> <u>Paper session 12</u> : room 306 <u>Methodologies</u>	
	Yasmin Kafai, Deborah Fields. Some Reflections on Designing Constructionist Activities for Classrooms	Daniel Hickmott, Elena Prieto- Rodriguez. To Assess or Not to Assess: Tensions Negotiated in Six Years of Teaching Teachers about Computational ThinkingDaniel Hickmott, Elena Prieto- Rodriguez. Constructionist Prieto- Rodriguez. Constructionist Experiences in Teacher Professional Development: A Tale of Five Years		Sven Jatzlau, Ralf Romeike. How High is the Ceiling? Applying Core Concepts of Block-based Languages to Extend Programming Environments Anton Chukhnov, Sergei Pozdniakov,	
11 <sup>30</sup> –13 <sup>30</sup>	Kit Martin, Michael Horn, Uri Wilensky. Ant Adaptation: A Complex Interactive Multitouch Game About Ants Designed for Museums			Ilya Posov, Athit Maytarattanakhon. Analysis of Constructive and Cognitive Activities of Participants in Online Competitions in Computer Science	
	Michael Weigend, Fenja Göcking, Alexander Knuth, Patrick Pais Pereira, Laura Schmidt. Media Parkour – Experiential Learning Activities for Media Education	Igor Verner, Khayriah Massarwe, Daoud Bshouty. Ethnomathematics in Teacher Education: Analysis and Construction of Geometric Ornaments Xiaoxue Du, Kay Chioma Igwe.		Vladimiras Dolgopolovas, Valentina Dagienė, Eglė Jasutė, Tatjana Jevsikova. Design Science Research for Computational Thinking in Constructionist Education: A Pragmatistic Perspective	
	Brendan Tangney, lan Boran, Tony Knox, Aibhín Bray. Constructionist STEM Activities Using the Bridge21 Model	Computational Thinking in Teacher Professional Development Programs		Aleksandra Klašnja-Milićević, Mirjana Ivanović. Learning Analytics in Education: Objectives, Application Possibilities and Challenges	
13 <sup>30</sup> –14 <sup>30</sup>	Lunch				

		Cassian shair Milessia O. Li	Cassier shall Ord		<u> </u>		
		Session chair: Mihaela Sabin Paper session 13: room 301	Session chair: Carina Girvan Paper session 14: room 302		Session chair: Wilfried Baumann Workshop 3: room 111		
		Curriculum matters Eva Klimeková. Curriculum				Corey Brady, Walter Stroup, Tony Petrosino, Uri Wilensky. Group-based	
		Intervention for Learning	Slany. Female Teel	nagers and Sin		ulation and Modelling: Technology	
		Programming in Python with Turtle Geometry	erto J. Cañas, Caitlin Davey, Sawaros		Sup	Supports for Social Constructionism	
14 <sup>30</sup> -	16 <sup>00</sup>	Carol Angulo, Alberto J. Cañas, Ana Gabriela Castro, Leda Muñoz,					
		<b>Natalia Zamora.</b> <i>Think, Create and Program: Evolving to a K-9</i>	Holbert. Making To	olbert. Making Together: Cultivating community of Practice in an All-Girl constructionist Learning Environment awaros Thanapornsangsuth, athan Holbert. Exploring Girls'			
		Nationwide Computational Thinking					
		Curriculum in Costa Rica					
		Michael Weigend. Coding to Learn - Informatics in Science Education	Values and Perspec				
4.000	4.030	<b>0</b> //	for Others				
16 <sup>00</sup> -	1650	Coffee break Session chair: Witold Kranas	Session chair: Mich	ael Weigend	Ses	sion chair: Brian Harvey	
		Paper session 15: room 301	Paper session 16: room 302			rkshop 4: room 111	
		Constructionist environments	Modeling	S Ke		Ken Kahn. Al Programming in Snap!	
		Christos Chytas, Ira Diethelm. Designing Constructionist Learning	<b>Zwaneveld.</b> Assessment of Modeling Projects in Informatics Class Kit Martin, Gabriella Anton.		Workshop 5: room 111		
		Environments with Computational Design and Digital Fabrication				tephen Howell, Neeltje Berger, Peter eldens, Kevin Marshall, Clare Riley. eveloping Affordable STEM Maker rojects with BBC Micro:bits and	
		Kazunari Ito. Pictogramming:			Dev		
		Learning Environment Using Human Pictograms Based on	Modeling Time	Mic		rosoft MakeCode	
16 <sup>30</sup> -	18 <sup>30</sup>	Constructionism	Ümit Aslan, Uri Will based Construction				
		Kazunari Ito, Aoi Yoshida, Takashi Yoneda, Yuichi Oie.	Interviews: A Generative Case Study				
		Human Pictogram Unplugged:		Yu Guo, Uri Wilensky. Mind the Gap: Teaching High School Students			
		Unified Learning Environment of Computer Science Unplugged Using	about Wealth Inequ	ality through			
		Human Pictograms	Agent-Based Participatory Simulations				
		Nobuko Kishi, Mari Yoshida, Minori Yoshizawa, Aoi Yoshida.					
		VISURATCTH: Visualization Tool for Finding Characteristics of Teaching					
		and Learning Process of Scratch Programmers					
Sat	urda	y, August 25 / Location: The Fa	culty of Philosoph	nv (Universiteto S	St. 9)		
		Session chair: <b>Deborah Fields</b>		Session chair: Pau	ul Go	Idenberg	
		Plenary session IX: room 301		Plenary session	_		
8 <sup>30</sup> –1	0 <sup>30</sup>	<b>Chronis Kynigos.</b> In Support of Integrated Approaches to Constructionist Designs and Interventions: The Case of		Brian Harvey. May I Teach an Algorithm?			
		ChoiCo and MaLT	Jens Mönig. Bones, Gears and Witchcraft				
Arthur Hjorth. Social Gears - a Constructionist Approach to Social Studies							
		Session chair: Eugenijus Kurilovas Demo session 2: room 301	<ul> <li>Session chair: Christos Chytas <u>Demo session 3</u>: room 302</li> <li>Ken Kahn. Interpolating (and Extrapolating) 3D Turtle Programs in Beetle Blocks</li> <li>Stephen Howell. Teaching Computational</li> </ul>			Session chair: Ralf Romeike <u>Workshop 6</u> : room 111	
		Nevin Akcay, Hulya Avci, Ali				Brian Broll, Corey Brady, Ákos	
10 <sup>35</sup> –	11 <sup>30</sup>	Güngör, Tufan Adiguzel. The Relationship between Computer				Lédeczi. NetsBlox: A Constructionist Environment for Creating Distributed Applications	
		Programming and English Language Skills			nal		
		Monica Chan, Gary Lee. Thinking with Minec.					
		Synthesizing the Mesh: Using Constructible Authentic					
		Representations to Gain Intuitive Understanding of Bayesian					
		Reasoning					
11 <sup>30</sup> -	12 <sup>00</sup>	Closing: Farewell buffet / Location: Grand Courtyard					
1300-	2000	Post Conference Excursions (not included in conference fee)					