PROGRAM Web3D 2017

Monday, June 5, 2017

	Theatre GP-P419	Room GP-Z302	
8:30-9:00	Registration		
9:00-9:15	Opening		
	Keynote One Hundred Years of Aptitude* 9:15–10:30 Mark Pesce (Inventor, Author, Educator, Broadcaster, Entrepreneur) +		
9:15-10:30			
	Tony Parisi (Head of VR and AR, Unity Technologies)		
	*Mark Decen will deliver the epoping keypote in persenting forms propagad in collaboration with Tony Devici who will		
	inviair resce will deliver ute opening keynote in narrative form; preparea in collaboration with Tony Parisi, who will appear by video. Mark (and Tony, if remote logistics permit) will then continue a conversation on the past, present and		
	future of virtuality with the audience.		
10:30-10:45	Break		
	Paper Session 1: Web-based 3D Visualisation		
	Community-driven Extensions to the X3D Volume Rendering	Discussion Session	
	Component - Ander Arbelaiz, Aitor Moreno, Luis Kabongo, Nicholas		
	Polys and Alejandro García-Alonso.	Rob Manson	
	x3oare: connectina X3D to a state of the art renderina enaine -	W3C Community Group:	
10.45 12.15	Pavel Rojtberg and Benjamin Audenrith	<u>Augmented Reality</u>	
10.45-12.15	Mesh Seamentation and Texture Mapping for Dimensional Inspection	www.w3.org/community/ar	
	in Web3D - Daniel Mejia, Jairo R. Sánchez, Álvaro Segura, Oscar Ruiz	<u></u>	
	Salguero, Jorge Posada and Carlos Cadavid		
	Programming driven 3D modeling on the Web		
	Andy Yeh		
12:15-1:00	Lunch		
	Paper Session 2: Transmission and Streaming of 3D Content	Masterclass 1	
	Evaluating Multi-View Representations of a Web3D Streaming Server		
	Ayat Mohammed, Nicholas Polys, Vuk Marojevic, Richard Goff and Carl	Don Brutzman	
	Dietrich	Graphics Education: Assets for Teaching and	
1.00-5.30	Webized 3D content streaming system for autostereoscopic 3D		
	displays - Daeil Seo, Byounghyun Yoo and Heedong Ko	Many course resources, examples, videos	
	WebTorrent Based Fine-grained P2P Transmission of Large-scale	and learning tools are summarised. These	
	WebVR Indoor Scenes - Yonghao Hu, Chaohui Chen and Jinyuan Jia	assets show how individuals and instructors	
	Progressive High-Quality Rendering for Interactive Information	can learn, teach and build X3D Graphics	
	Cartography using WebGL - Daniel Limberger, Marcel Pursche, Jan	models for a full range of capabilities.	
	Klimke and Jürgen Döllner		
2:30-2:45	Break		
2:45-4:00	Masterclass 2	Discussion Session	
	Anita Havele, Vincent Marchetti	Discussion Session	
	Choosing the Right 3D Technology For You	Mark Pesce	
		W3C Community Group:	
	This Masterclass gives a comprehensive overview of today's 3D	Mixed Reality Service	
	technologies from a modeler's and graphics practitioner's perspective		
	and of the current challenges of using these technologies. How they	www.w3.org/community/mixedreality/	
	complement, compete or converge with each other and become		
1.00 5.00	essential to the 3D enterprise.		
4:00-5:00	Web3D Consortium Town Hall		
5.00 7.20			
5.00-7.50	CUBE demos. Poster Session. Art Gallery		

Tuesday, June 6, 2017

	Theatre GP-P419	Room GP-P504	
	Paper Session 3: Web-based 3D Environments and Systems	Masterclass 3	
	A Web3D Forest Geo-Visualization and User Interface Evaluation	Xavier Ho, Juan Miguel de Joya	
	Haitao Wang, Xiaoyu Chen, Nicholas Polys and Peter Sforza	WebGL 2.0	
		WebGL 2.0 has landed, and the future of	
	Finding Frogs: Using Game-Based Learning to increase	graphics on the web is here. In this workshop,	
	Environmental Awareness - Nicholas Polys, Jessica Hotter, Laura	we will introduce the rendering specification	
9:00-10:30	and lamos work	for browsers. New features include geometry	
	and James Ivoly	instancing, transform feedback, and 3D	
	Two Real-World Case Studies on 3D Web Applications for	textures will be covered in depth. Topics will	
	Participatory Urban Planning - Toni Alatalo, Matti Pouke, Timo	be drawn from arts, science, data	
	Koskela and Timo Ojala	visualisation, as well as WebVR/WebAR.	
	Text Density and Display Bandwidth: Evaluating Scalability by Model		
	and Experiment - Jagathshree Iyer, Nicholas Polys and Lance		
	Arsenault		
10:30-10:45	Break		
	Masterclass 4	Workshop 1	
	Niekolas Dalva	Don Brutzman, Vincent Marchetti	
	Nicholas Polys Medical and Valuma Visualisation on the Web	3D Scanning: Use Cases, Worknow and Profile	
10.45-12.15	weatcar and volume visualisation on the web	Requirements for XSD	
10.45-12.15	Interoperability and reproducibility are crucial concerns in medical	3D scanning is growing in importance. Typical	
	imaging This session showcases recent applications and case	workflows exist both for scan refinement and	
	studies using X3D on the Web for volume rendering and	scan applications, but numerous variations	
	visualization. We will demonstrate the techniques and tools in use	create difficulties that might be well served by	
	today for Web3D and discuss community-driven extensions to	a common data format and shared metadata	
	improve the standard.	conventions using X3D.	
12:15-1:15	Lunch Keynote Khronos Standards	for the Web	
	Neil Trevett (President, Khrono	s Group)	
1:15-2:15	Keynote VR & Advanced Visualization Tech Spec	ialist Ford Motor Company	
	Elizabeth Baron		
	Paper Session 4: Semantic 3D Modelling and Compression	Masterclass 5	
	Semantic Model for Distributed Augmented Reality Services		
	Dariusz Rumiński and Krzysztof Walczak	Don Brutzman, John Carlson, Roy Walmsley	
	Knowledae-based Representation of 3D Content Behavior in a	Object Model for X3D (OM4X3D) and Scene	
2.15 2.45	Service-Oriented Virtual Environment - Jakub Flotyński and Krzysztof	Access Interface (SAI) for X3D, including	
2.15-5.45	Walczak	JSONED UNU XSDJSAIL	
	3DRepo4Unity: Dynamic Loading of Version Controlled 3D Assets	This class presents description and usage of	
	into the Unity Game Engine - Sebastian Friston. Carmen Fan. Jozef	the Object Model for X3D (OM4X3D) and	
	Dobos, Timothy Scully and Anthony Steed	Scene Access Interface (SAI). Current and	
	Efficient Compression for Server-Side G-Buffer Streaming in Web	potential work includes X3D Java SAI Library	
	Applications - Sascha Bäsch, Maximilian Herz, Arian Kuijner and	(X3DJSAIL), JavaScript and (draft) C++	
	Johannes Behr	implementations.	
3:45-4:00	Break		
4:00-5:00	Keynote The Call of the New		
	Michela Ledwidge (Co-founder and CEO, Studio Mod)		
5:00-6:00	Demos Showcase		
7:00-10:00	Conference dinner – Showboat Cruise		



Wednesday, June 7, 2017

	Theatre GP-P419	Room GP-P504
	Masterclass 6	Workshop 2
		Vincent Marchetti, Don Brutzman
	Mitch Williams	Using X3D Metadata for Domain Specific
	Moving Web 3D content Into GearVR	Information
		This workshop will examine use of X3D over a
	This Masterclass will demonstrate how current 3D technologies	span of domains such as Medical application,
9:00-10:30	such as X3D, gITF, and the fbx and obj file formats can be used in	CAD visualization and Culture Heritage
	creating VR content for GearVR.	archiving. Examples will suggest general
		requirements for metadata support in the X3D
		standard. Best-practice guidelines will be
		proposed for including searchable metadata in
		X3D files.
10:30-10:45	Break	
	Paper Session 5: Searching and Retrieval in a Web 3D Environment	Masterclass 7
	SMULGRAS: A Platform for Smart Multicodal Graphics Search	
	Andreas Dietze, Marcel Klomann, Yvonne Jung, Michael Englert,	Mike McCann
	Sebastian Rieger, Achim Rehberger, Silvan Hau and Paul Grimm	X3D Geospatial
	Towards browsing repositories of constially oriented histories	
	nbotographic images in 2D Web Environments	This course will use real oceanographic data to
10:45-12:15	Jonas Bruschko, Elorian Niebling, Eordinand Maiwald, Kristina	demonstrate the use of X3D Geospatial for
	Friedriche Markus Wasker and Mare Friedricht atoschik	constructing rich visualizations of terrain and
	Friedrichs, Warkus Wacker and Ware Erich Eatoschik	sensor data.
	<u>3D Model Indexing in Videos for Content-Based Retrieval via X3D-</u>	
	Based Semantic Enrichment and Automated Reasoning	
	Leslie Frank Sikos	
	A Workflow for Web3D Interactive Outdoor Scene Visualisation	
	Yash Vyas, Emily Campbell, Stuart Anderson and Matt Adcock	
12:15-1:00	Lunch	
	The Future of X3D	Workshop 3
	Day Malanalay and Day Drutanea	Safa O'Danashua Dasaa Ula Dajahura Sur
1.00 2.20	Koy waimsley and Don Brutzman	Sean O Donognue, Bosco Ho, Baichuan Sun
1:00-2:30	now will the X3D standard daapt to HTML5 and Virtual and	<u>web Molecular Graphic</u> s
2.20 2.45	augmented reality on the web?	I
2:30-2:45	Break	
2:45-3:45	ReyNOTE WEDAK, WEDYK and the Democratization of Mixed Keallty Blair MacIntyre (Principal Research Scientist, Mozilla, and Professor of Interactive Computing, Goorgia Toch)	
2.45 5.00	Conforence closing and AWARDS Youl	
5.45-5.00	Conference closing and AWARDS Yay!	

Wireless NETWORK - WIFI

If you have an eduroam account use the 'eduroam' wireless network as you would at your home institution. Via a mobile device (phone/tablet).

1. Go to your device's 'Settings' menu.

2. Select 'Wi-Fi'.

3. Select the network called 'Events@QUT' note – If you have used this service before you will have to "Forget this Network". 4. When prompted for a password, enter: Nab3456N (note – password is case-sensitive)

5. Open any web browser to http://www.qut.edu.au/ (note – do not use https:// and a page titled 'Welcome to Events@QUT' will appear, displaying the service Terms and Conditions.

6. Select the 'Click to Accept' the Terms and Conditions option to commence using the conference wireless service. Via a laptop (PC / Mac)

1. Go to your wireless network connections, by clicking on the 'wireless' logo on your laptop.

Select the wireless network called 'Events@QUT' note – If you have used this service before you will have to "Forget this Network".
When prompted for a password, enter: Nab3456N (note – password is case-sensitive)

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ART GALLERT	Visual Communication of Economication Data to Communication
Noise Aquarium: Victoria Vesna, OCLA Art Sci Center; Alfred	
Vendl, Martina Froschl Visualization Lab Angewandte – Digital	Audiences: Exploring 360° Video Techniques: Leah Gustafson,
Art, University of Applied Arts Vienna. UCLA, Los Angeles, USA.	Tomasz Bednarz
Marpi x Archan Nair: Mateusz Marpi Marcinowski and Archan	
Nair. San Francisco, USA.	Parallelizing Web Virtual Reality for fun and Profit:
Movement Study [90x4=360xinfinity]: Andrew Denton and	Rabimba Karanjai, Vivek Sarkar
Jennifer Nikolai. Auckland University of Technology (AUT),	
Auckland, New Zealand.	Combining 360-degree Video with Visualisations of Ambisonic
Face Value: Elke Evelin Reinhuber. Nan Yang Technological	Audio: Leah Gustafson
University (NTU), Singapore, Singapore.	
Rose: Mark Chevez and Ina Conradi Chevez. Nan Yang	General Immersive Big Data Visualisation and Analytics
Technological University (NTU) and Giant Monster Ptd Ltd.,	Middleware Framework: Joshua Bowden, Florence Wang, Miles
Singapore, Singapore.	McBain. Tomasz Bednarz
Being Ignored Yeohyun Anh and Ge Jin. Valparaiso University	,
and Purdue University Northwest, In. USA	Experience management: Wrangling Web3D for mixed reality:
Indeed: June Kim, OUT and UNSW, Australia	Michela Ledwidge
Colour 32: Anastasia Tvurina, Griffith University, Brisbane,	
Australia	An introduction to 3rd Eve Scene: A 3D Visual Debugger: Kazys
The Media on the moon: Matthew Martin and Jenna Gavin	Stenanas
Auckland N7	Stepanas
MilkyWay 3D: Filin Michalski, University of Wrocław, Wrocław	Visualizing and Interacting with data in virtual reality: Eleanor
Poland	McMurtry, Xavier Ho
Guernica 2016: led Segovia, Parcons The New school, NV	weiward y, Auver no
Streak: AL-Azmir Ibrahim NTLL Singapore Singapore	Assimilate: collaborative interfaces with WebVP: Damian Hills
Elow: Dobbio Ng NTU Singaporo Singaporo	Assimilate. conaborative interfaces with webvit. Damain mis
Migration, Madeline Ngei NTU, Singapore, Singapore	Devterity A framwork to use a smorthhane as a 2D word
The Construmt Theore Length NTU Conserver Singapore	Desterity: A framwork to use a smartphone as a 3D wand:
Ine creature: Zhang Longtel, NTU, Singapore, Singapore	Jenny vuong, Unristopher Hamming, Benedetta Frida Baldi, and
Painting Translations with Conditional Adversarial Networks:	Sean O'Donaghue
Drew Flaherty, QUT, Brisbane, Australia	

QUT Campus Map: Conference is in Block P. Some of the sessions on Monday are in Block M.

