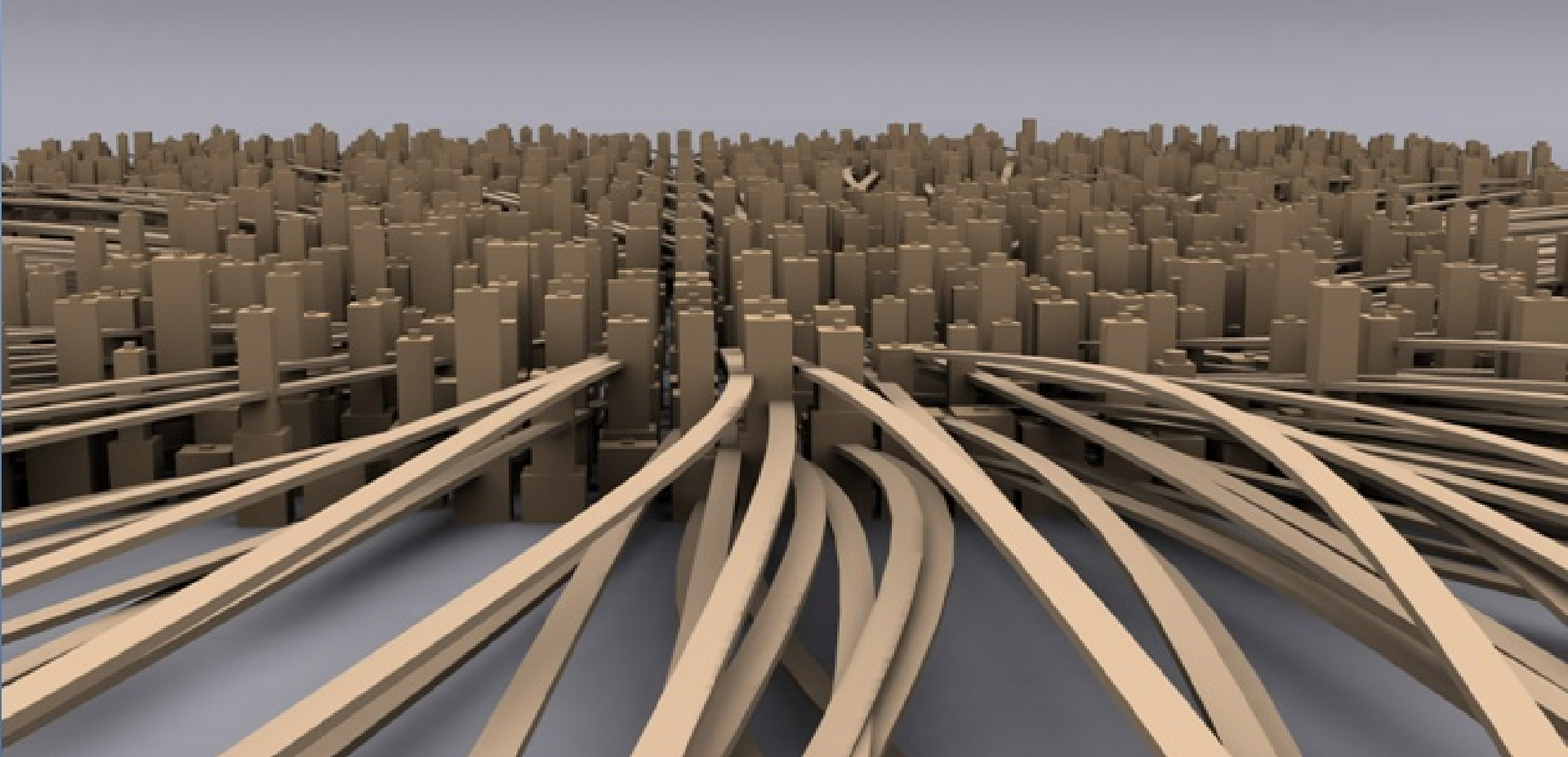


The 7th International VR Symposium
第7回 国際VRシンポジウム

2014年11月21日(金)
Forum8 Seminar Room



WORLD16

World16 is a world-wide professional group of sixteen researchers who are exploring different aspects of VR city modeling and visualization.

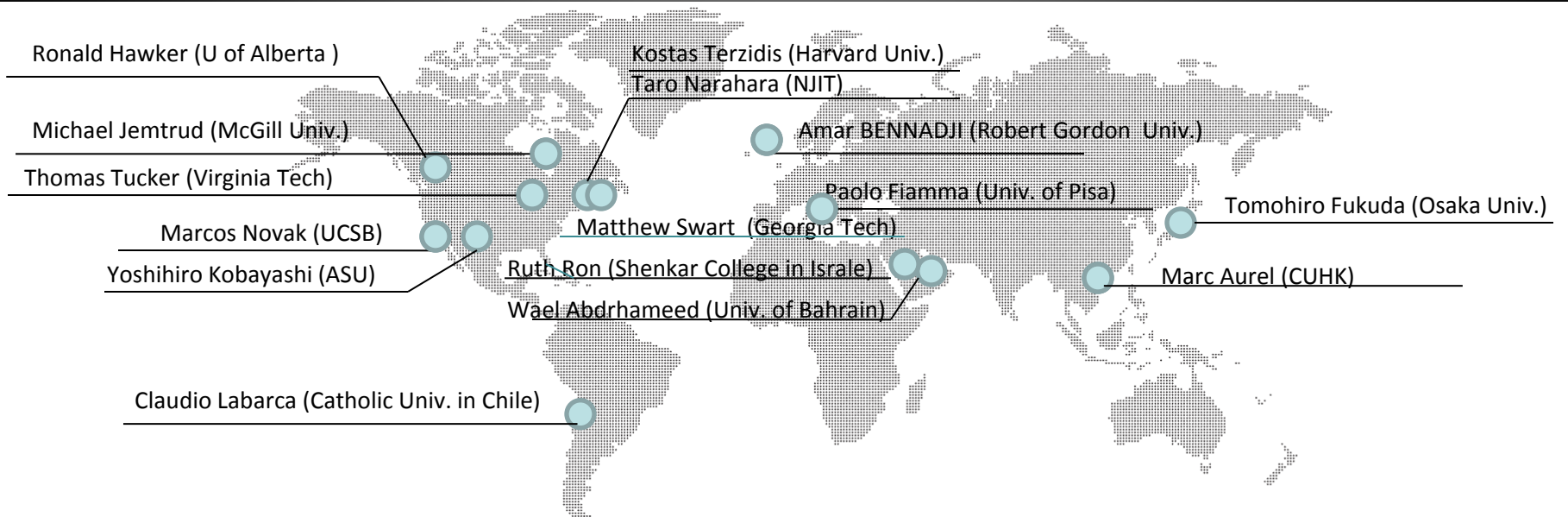


MISSION: Develop and demonstrate VR city models and the applications using a common VR platform (UC-win/Road)

- **Summer workshop:** Brain Storming and Proposing new projects
- **VR symposium :** Display the results at the Design conference

VALUE:

- Accumulate knowledge and skills of VR applications among the group by sharing the developed tools and methods.
- Publish technical papers and demonstrate the results at the conferences; CAAD Future, CONVR, SIMAUD, ACDIA, Siggradi, eCAADe, CAADRIA, etc.

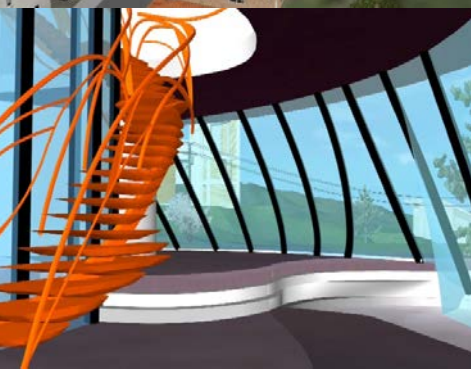
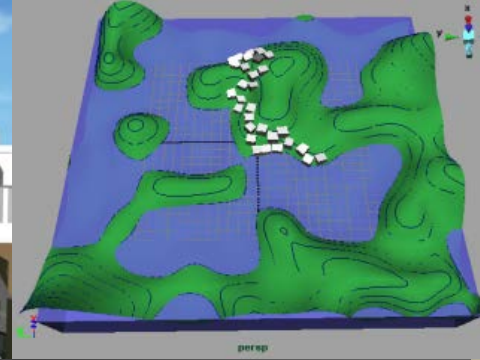


		2007 Nov.	1 st VR International Symposium
		2008 Nov.	2 nd VR International Symposium
2008 Aug.	1 st VR Summer Workshop in ASU		
2009 May	World16 Invited Lectures		
2009 Jul.	2 nd VR Summer Workshop in Hakone	2009 Nov.	3 rd VR International Symposium
2010 Jul.	3 rd VR Summer Workshop in UCSB	2010 Nov.	4 th VR International Symposium
2011 Jul.	4 th VR Summer Workshop in Pisa & Venice, Italy	2011 Nov.	5 th VR International Symposium
2014 Jul.	5 th VR Summer Workshop in Hawaii + 6 th VR Symposium		
		2014 Nov.	7 th VR International Symposium



3rd International VR Symposium





FORUM8AZ.COM

Management and support of World16 members' projects

FORUM8AZ



World16 VR research group in Venice, Italy

World6 is a global working group of professors engaged in research using virtual reality technology. Knowledge and data is shared using Forum8 software UC-win/Road as a common visualization platform.

Forum8 AZ manages research teams and coordinates two annual meetings in-person: a summer workshop in which VR projects are outlined and new technologies are shared, and a fall symposium in Tokyo at which the research results are presented.

Forum8 AZ maintains a tutorial blog at which new techniques for creating data in UC-win/Road are shared to researchers and the public: Visit the blog [HERE](#).



UC-win/Road was used in this research by Prof. Amar Benaadji of Robert Gordon University to visualize an urban design proposal to the University campus and surrounding traffic congestion issues.



This project, headed by Prof. Taro Narahara of the New Jersey Institute of Technology, focuses on real-time synchronization of a physical interactive interface and UC-win/Road 3D simulation software.



This World6 project, headed by Prof. Matthew Swartz of Georgia Tech and Prof. Ruth Ron of University of Florida, was developed in order to visualize the extent of highway noise pollution in downtown Orlando, Florida. The simulation shows what areas are most seriously affected and would benefit from the placement of sound reflective barriers, trees, or other intervention.



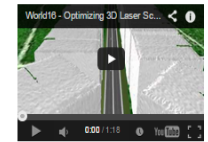
This project by Wael Abdelhameed at the University of Bahrain uses UC-win/Road's Micro Simulation Player to visualize two different construction plans for the same building site.

Use of this tool allows project management and construction stakeholders to explore various construction scheduling issues and design plans in a fully interactive 3D environment.



This project, developed by Prof. Taro Narahara at the New Jersey Institute of Technology, involves the creation of a tool that simulates pedestrian movements in real-time.

This software was then connected to the 3D Virtual Reality software UC-win/Road so that pedestrian movements could be represented by 3D character models in an urban environment.



Tomohiro Fukuda, Professor at the Graduate School of Engineering at Osaka University, heads this research which is based on optimizing 3DLS (3D Laser Scanner) data for VR environments.

VR Design Studio (formerly UC-win/Road):



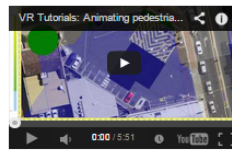
Importing WAP Terrain into UC-win/Road



Placing roadside objects in UC-win/Road



Using model visibility layers in UC-win/Road



Animating pedestrians in UC-win/Road



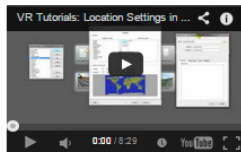
Exporting AVIs and EMPs from UC-win/Road



Importing models from SketchUp to UC-win/Road



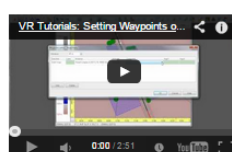
Using visual options in UC-win/Road



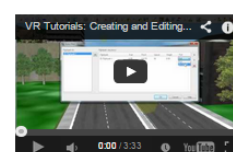
Setting location settings in UC-win/Road



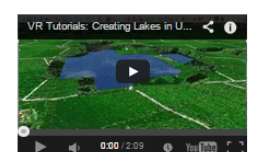
Loading 3DS models into UC-win/Road



Setting waypoints on a flight path in UC-win/Road



Creating and editing flight paths in UC-win/Road



Creating lakes in UC-win/Road



World16 - Phase 2

"From Connection to Integration"

PHASE 1: 2007 – 2011

To share the knowledge and develop connections

PHASE 2: 2014 –

To develop brand values and educational project templates

Summer Workshop 2015 in Hawaii

Mapping JAM

7/9 – 11, 2015

Hilton in Honolulu (Rainbow Tower 2F)

It was to develop projection mapping works in 48 hours. We created five projects and demonstrated them at the 5th VR Summer Workshop in Honolulu, Hawaii. The tutorial and report is available at the end of this session. The project is also reported at

ieiri-lab.jp/it/2014/07/48hr_projection.html (建設ITワールド)





Schedule

9:30-12:00
(各15分)

「Drone&VR ~UAV(無人飛行体)による3Dモデリング研究」

ジョージア工科大学 マシュー・スワーツ 氏

「コウモリの洞穴研究におけるレーザースキャナ、VRの活用」

バージニア工科大学 トマス・タッカー 氏

「オーガニック・パーキング ~クラウド型駐車場予約システム」

ハーバード大学 准教授 コスタス・テルジデイス 氏

「VR-Cloud®を用いたリアルタイム都市計画システム」

大阪大学大学院工学研究科 環境・エネルギー工学専攻 准教授 福田 知弘 氏

「インタラクティブデバイスとVRの連携事例」

ニュージャージー工科大学建築デザイン学部 准教授 橋原 太郎 氏

「イタリア・ピサにおけるVR活用研究」

ピサ大学 教授 パオロ・フィアマ 氏

「VRによるオンライン教育研究」

ロバートゴードン大学 助教授 アマル・ベンナージ 氏

~~「古代文化研究へのVR適用例」~~

~~アルバータ大学 副主任教授 ロン・ホーカー氏、ロン・アリア 氏~~

「4D建設プロジェクトにおけるVRの適用」

バーレーン大学 准教授 ワエール・アブデルハミード 氏



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