Nârd **13th FORUM8 DESIGN FESTIVAL 2019 3DAYS**+EVE All about FORUM8 @ Products.

2019 11/13 Wed - 11/15 Fri [EVE 11/12 Tue] Shinagawa Intercity Hall · Foyer

A-21F FORUM8

MFORUM 8[®]

Organizer : FORUM8 Co., Ltd. CPWC Organizer : Cloud Programming World Cup Exec VDWC Organizer : Virtual Design World Cup Executive Commi

AUTONOMOUS DRIV

CAD / DESIGN

Greeting

New software, case examples of system, and researches are introduced every year at FORUM8 Design Festival 3Days+Eve. How can the automobile industry that is the core of manufacturing industry in Japan develop in the striving international competition towards the realization of autonomous driving? FORUM8 will hold The 4th Autonomous Driving Conference that consists of lectures by specialists from the autonomous-driving-related departments of 4 ministries. The experts solve many questions from visitors every time. In The 18th 3DVR Simulation Contest, the participants show their VR usage ways in various fields such as studies on automobile, driving and traffic simulation, and city planning. This year we are planning to announce the new features of UC-win/Road Ver.14 and a new product VR-NEXT. On the Day2, student teams nominated from all over the world will gather for the final judgment and award ceremony of The 7th Cloud Programming World Cup CPWC, The 9th Student BIM & VR Design Contest on Cloud VDWC. The Hagura Award held by the State of the Art Technologies in Expression

Association, and The 12th International VR Symposium are also worth seeing. On the Day3, we will invite Mr. Scot Osterweil from the Game Lab of Massachusetts Institute of Technology (MIT) for a special lecture. Expectations are rising for education games in a variety of fields created by the game designer being active in the industrial world and education fields. The 6th National Resilience Design Award is the place where various technical works contributing to the national resilience and disaster mitigation are presented. At the network party on the Day1, FORUM8 will introduce 5 books newly published by FORUM8 Publishing. In addition, at the exhibition corner, guests can experience the latest FORUM8 solutions including Shade3D Ver.20, VR-NEXT, and the 360 degree simulator revealed at CES Shanghai. It is my pleasure to host the Design Festival as an opportunity for showing FORUM8's VR. CG, 3DCAD, and FEM. We are really looking forward to seeing you and thinking together about how we can use FORUM8's software and systems to improve user's and engineer's productivity and make your works more efficient.

CEO and President of FORUM8, Yuji Ito

SCHEDULE — 13th FORUM8 DESIGN FESTIVAL 2019

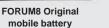
11/13	P04	 The 4th Autonomous Driving Conference METI, MIC, MLIT, and NPA deliver 5 lectures! Guest Greeting Member of the House of Representatives Mr. Keiji Furuya 					
WED DAY1	P05	 The 18th 3D • VR Simulation Contest on Cloud Award Ceremony Book Launching Lecture Networking Party, Book Launch Sale 					
11/14	P06	 VR Conference The 20th UC-win/Road Conference Presentation "Latest functions and future vision of Shade3D" The 7th CPWC / The 9th VDWC Open Final Judgment, Award Ceremony The 5th Junior Software Seminar Award Ceremony 					
DAY2	P07	 The 5th State of the Art Technologies in Expression Association /Latest Technology Art Session Special Lecture Mr. Katsura Hattori "What is the information environment in next generation that VR is aiming at?" Greeting Mr. Akira Hasegawa State of the Art Technologies in Expression AssociationThe 3rd Hagura Award The 12th International VR Symposium 					
11/15 FRI	P08	 The 13th Design Conference Special Lecture Mr. Hiroaki Aoki "Technology development of autonomous operation of construction machine by using UC-Win/Road" Special Lecture Prof. Scot Osterweil "Play the future" 					
DAY3	P09	 The 6th National Resilience Design Award "See you again next year" 					
11/16 SAT	P10	Special event for premium users					







book card



*The images are in production and may differ from the actual design.

FORUM8Original notebook / ballpoint pen

FORUM8Original Eco bag



(for Premium users)



FORUM8 DESIGN FESTIVAL 2019 EVE design festival 2019



Sports and technology art experience type entertainment space

Harmony of Sport with technology

Video expression, lighting, stage performance based on technology and sound

ONI produce

DJ ONI×Kanbe×Anna Sato×Osao Hori×ONO×Haruka Gomi and more

Kendama performance

ZOOMADANKE Highly entertaining Kendama performance getting artistic evaluation from all over the world

Double Dutch

at NY Apollo Theater in 2019

02

11/12 Tue 18:00 Shinagawa Intercity Hall Foyer

Mix At Will Double Dutch performance by 4 members who performed in the world competition

freestyle football

Tatsuya Adachi Center performer of the top entertainment group in Japan "Ball Beat Crew"

Bike up the steepest slope in Tokyo

Steep slope bicycle simulator x Tecchan



The 4th Autonomous Driving Conference

Special Lecture 2

METI. MIC. MLIT. and NPA deliver 5 lectures!

UC-win/Road is used for a variety of automobile related fields such as road design, vehicle system development, ITS, ADAS and autonomous driving. This conference covers the newest features of the 3DVR software supporting these advanced R&D and examples of system development. At the "4th Autonomous Driving Conference", specialists from the governments will deliver lectures about trends, current issues, and prospects in the country and abroad.

Opening Address

Opening address of The 13th FORUM8 Design Festival

10:00-10:35 Special Lecture1



Guest Greeting

Profile

Driving and ITS Promotion Office, Automobile Division Manufacturing Industries Ministry of Economy. Trade and Industry Mr. Kenji Ueki

Director of Autonomous

Profile

Born in May 1974. After he finished his master at Tokyo Institute of Technology in March 1999, he joined the Ministry of Economy, Trade and Industry. He took his current position in July 2019.

"The METI's involvement to realize autonomous driving"

The METL established the "Autonomous Driving Business Study Commission" together with the MLIT and is promoting activities required for the realization of autonomous driving in order that the Japanese automobile industry increases the competitive power and contributes to the resolution of social issues such as reduce of traffic accident. Based on the debates in the study commission, Mr. Ueki introduces METI's current activities including "the policy toward the realization of autonomous driving"

13:00-13:20

President of "Parliamentary

Mr. Keiji Furuya

Member of the House of

group for considering

Automobile Culture"

Representatives

A member of the House of Representatives, a primary

minister who is in charge of national toughening and

insurance company. He was chosen in an election of

the House of Representatives for 9 times in Gifu's 5 constituency. His actions in the parliamentary group:

pres, of the provision team of the Liberal Democratic Party against the abduction issue by North Korea,

pres. of the committee for the IT security, pres. of the

promoting the next generation energy system, pres. of

parliamentary group for promoting informatization

the motor sports promotion team in LDP, etc. The

education, pres. of the parliamentary group for

author of several books.

disaster prevention. Graduated from the faculty of

economics of Seikei Univ. and joined a major



Mr. Naohiko Ogihara

Profile In April 1992, he joined the Ministry of Internal Affairs and Communications (EKA the Ministry of Posts and Telecommunications) and mainly was engaged in R&D and frequency allocation. He took his current position in July 2018.

"Trends and MIC's involvement towards the achievement of autonomous driving'

As the entire world is aiming at the achievement of autonomous driving, the communication is having more and more important role. In this lecture, Mr. Nakazato explains the trend of autonomous driving and introduces R&D, technology test, and new wireless system including 5G expected to be used for vehicles

Special Lecture4 13:20-13:55

Director of Autonomous

Driving Strategy Office /

and Tourism

Director of Mobile Satellite Communications Division. Radio Department. Telecommunications Bureau Ministry of Internal Affairs and Communications

10:35-11:10

Profile

Program Office, Road Traffic Management Office, Road Bureau. Ministry of Land, Infrastructure, Transport and Tourism Mr. Katsuya Abe

Chief of ITS Policy and

9:50-15:20

9:50-10:00

11:10-11:45

Joined Ministry of Land, Infrastructure, Transport and Tourism (FKA Ministry of Construction) in 1995. Finished his master in Graduate School of Tokyo Institute of Technology. He took his current position in August 2018 after experiencing the chief of Kyushu Regional Development Bureau.

CEO and President of FORUM8, Yuji Ito

Special Lecture 3

"MLIT Road Bureau's involvement in autonomous driving"

To ensure the human resource and commodity distribution in aging mountain areas, the MLIT is testing the introduction of autonomous driving service in those areas by utilizing the rapidly improving autonomous driving technology. In this lecture, Mr. Abe talks about the proving test of autonomous driving service and how it can help the travel in living and the transportation of agricultural products. He also introduces what issues we have and how we should solve them toward the goal in 2020.

Special Lecture 5 13:55-14:30



Traffic Bureau National Police Agency

14:30-15:20

Director of Autonomous

Driving Planning Office,

Traffic Planning Division.

Mr. Toshihiro Sugi

He graduated from the School of Commerce, Waseda University in March 1988, and entered the National Police Agency in April. He experienced the director of the Police Administration Department, Nagasaki Prefectural Police, and Investigator of the Allowance and Welfare Division, Commissioner General's Secretariat, NPA, and took his current position in June 2017

"NPA's involvement in autonomous driving"

Autonomous driving is considered as the technology that contributes to reducing and easing traffic accidents in the future Japan, and the NPA is also working to support its advancement. In this lecture, Mr. Sugi introduces the current world trends about the autonomous driving, and the NPA's efforts related to it.

Virtual Reality Design Studio UC-win/Road Presentation

"Utilization and future vision of VR for autonomous driving. ADAS, mobility R&D, and training"

Katsumi Matsuda, Executive Officer and System Sales Manager of FORUM8

A variety of functions are required for the virtual space used as the experiment environment in the autonomous driving, ADAS, and mobility fields due to the advancement of research and development. In this presentation, Mr. Matsuda explains cases from VR construction and flexible experiment scenario setting using open data, utilization in the AI field, application to the driving training, to the system construction cooperated with measuring device and real-time HIL system. He also introduces case examples of embedded system development, system development using game engine, and linkage with the comprehensive 3DCG software Shade3D corresponding to the major formats including IGES / STEP / STL. In addition, he introduces the activities of the VR Promotion Conference that is building the VR models and platforms of each city in Japan and abroad to aim at the utilization of VR in various industries including the R&D of autonomous driving.

"New functions and new developments of UC-win/Road"

Pencreach Yoann. Executive officer and Development Senior Manager of FORUM8

Mr. Yoann introduces the new functions of UC-win/Road Ver.14 supporting the development of autonomous driving and ADAS technology. He explains the expansion of system linkage and sensing simulation function, adjustment and optimization of system by the experimental play function, and the current correspondence to the open standard. At the end, the development roadmap of the state-of-the-art rendering engine and utilization of cloud technology is introduced.

-The 18th 3D · VR Simulation Contest on Cloud Award Ceremony-The 18th 3DVR Simulation Contest

Experts explain awarded works data.

Don't miss new possibilities of the UC-win/Road!

Advanced VR data works gather from Japan and overseas for the 3D VR Simulation Contest on Cloud. The competition objects are expanded to various fields such as environmental assessment, disaste prevention, and education and training in addition to civil engineering, architecture, and traffic and vehicle in recent years. At the award ceremony, experts will explain the prize-winning data. Do not miss the event to know new possibilities of the evolving UC-win/Road.



VR simulation for Hokkaido Shinkansen Sapporo station design and construction Hokkaido Railway Company





VR data for ship operation simulator AKISHIMA LABORATORIES (MITSUI ZOSEN) INC.

Safety driving simulator Autonomous driving for university students simulation of Republic of China (Taiwan) mining dump truck Construction Machinery Co., Ltd.

Host / Presenter



Host / Presente





Juries

Prof.Fumio Seki Chief of the judging committe / Professor of Engineering Mr.Hiroo Kasagi Representative of NPO Chiikizukuri Kobo

Book Launching Lecture

Four books created by FORUM8 and published by FORUM8 Publishing come out at the Design Festival 2019. The authors and editorial supervisors are invited and introduce the theme of their own books. The books are published only in Japanese.





Official guideboo

data processin/database

NPO Civil Machizukuri

Station

FORUM8 Kazuki Ishikawa FORUM8 Shade3D

04



Engineering Policy Division Road Transport Bureau. Ministry of Land. Infrastructure, Transport 6 Mr. Takahiro Hirasawa

Profile

Entered Ministry of Land, Infrastructure, Transport and Tourism (FKA Ministry of Transportation) in 1995. He took his current position in July 2018 after experiencing the post of the director for Recall Enforcement Office.

"Activities related to autonomous driving in the automotive field"

The Road Bureau of MLIT promotes a manufacturing of safe vehicle by formulating vehicle safety standards and develops, put into practical use, and spreads vehicles. equipped with the safety driving support system using advanced technologies. The purpose of its efforts is to contribute to reduce car accidents. In this lecture, Mr. Hirasawa introduces activities related to the latest vehicle technologies including the autonomous driving technology. 15:35-17:20





3DVR of Winding tower in Shime mining factory and Related facilities (in 1964) Tho.La.Consulting

Dual drive EPS system simulato DENSO Corporation



Mr. Tatsuoki Inagaki Director of Pave & Road How-To Way Technology Association

17:20-17:40







-The 20th UC-win/Road Conference-The 20th VR Conference

Opening Address Opening address of The 13th FORUM8 Design Festival CEO and President of FORUM8, Yuji Ito FORUM8 "Latest functions and future vision of Shade3D" Shade3D Development Group Mr. Yoshitsugu explains the enhancement of Hideyuki Yoshitsugu cooperation with FORUM8's BIM/CIM corresponding products beginning from the 3D Overview of Shade3D Being equipped with functions such as the annotation and the future vision in addition to nigh-precise modeling, layout, camera, light source, the latest functions including multi-language rendering, and animation for the architectural interface and the education programming tool. perspective, interior design, and product design

The 7th Cloud Programming World Cup The 9th Student BIM & VR Design Contest on Cloud The 7th CPWC / The 9th VDWC

programming education is released in the latest version. introduced.

Shade3D can be utilized as the modeling tool for

UC-win/Road. An academic tool supporting the

Open Final Judgment 10:30-12:00 Award Ceremony 16:00-17:00

The 7th CPWC is a programming skill competition of a cloud application. The 9th VDWC is a competition of advanced architecture and civil engineer ing design. Both of them are very international contests. You can see many works with full of ideas and students presentations at the final judgement.





Assoc. Prof. Tomohiro Fukuda Narahara Taro Head of judges Graduate School of Engineering Osaka University

CPWC Award

World Cup Award

Award 300.000 ven

Certificate, Memorial Cup

Certificate. Crystal Cup

Honorable Judge

Award 50.000 ven

Nomination Award

Certificate. Memorials

Kaltida Tada

Born in Bangkok

Japanese, English,

and Thai. Model,

MC speaking

narrator

Award

Ms.

Associate Prof. College of Architectural Design New Jersey Institute of Technology

Mr. Yoann Prof. Pencreach Makoto Sato Professor Emeritus Senior Manager of of Tokyo Institute elopment group, FORUM8 of Technology



World Cup Award 🚤 Award 300.000 ven Certificate. Crystal Cup

Semi Grand Prix Award 100,000 yen Certificate. Semi Grand Prix Cup

Honorable Judge Award Award 50,000 yen Certificate. Memorials

Nomination Award Certificate. Memorials

> Construction **IT** Journalist Mr. Rvota leiri



Practical modeling techniques and the latest

case examples in each field will also be

Prof. Yasushi lkeda Chief of executive committee of VDWC / Graduate School of China Keio University epresentative of IKDS

Prof. David Tseng National Chiao Tung University,Taiwan

The 5th Junior Software

Excellent works created in "Junior Software

Networking Party

Venue Trattoria Italia (Shinagawa Intercity B annex 1F)

We will hold a networking party for communication and information exchange. are looking forward to having you attend.



The 5th State of the Art Technologies in Expression Association /Latest Technology Art Session

Special Lecture



Greeting

Profile Joined The Asahi Shimbun Company in 1978 and worked as a visiting researcher at the MIT Media Lab., a scientific journalist, and a magazine editor. Retired in 2016. He wrote and . slated some books

People started to know the VR technology when the VPL released the VR product in 1989. In this lecture, Mr. Katsura explains why VR was generated in the development history of computer and how people accepted it in order to reveal what this technology has aimed at originally and review what role it will take in the future information society

13:15-13:20

Chairman for the State of the Art Technologies in Expression Association Mr. Akira Hasegawa

Profile

A digital art creator born in 1947 in Komatsu. Ishikawa. Received many awards including Grand Prix of TVCM section by The Japan Commercial Broadcasters Association and ACC Award and more. He created thousands of company logos, TV programs, TV commercials, and

MR The 12th International VR Symposium

VR usage proposals has been presented and discussed at the International VR symposium by World16 consisting of architecture, civil engineering, and urban plan researchers around the world. So far, it has been held in Phoenix, the US (2008), Hakone, Japan (2009), Santa Barbara, the US (2010), Pisa, Italy (2011), Hawaii (2014), and Thessaloniki, Greece (2015), Osaka (2016), Boston MIT (2017), and New Zealand (2018). This time, Yoshihiro Kobayashi from Arizona State Univ. hosts the symposium as the place of research and development presentation of summer workshop in Paris, France in July 2019 and its application to software by the cooperation between Forum8 and World16.

Driving Companion

He suggested an artificial knowledge companion that uses the conversation generation API MUSE developed by AKA Intelligence and talks by using contexts such as driver's facial expression and behavior. By cooperating with UC-win/Road, he will develop a system to make the driver relaxed by talking to him/her when he/she feels tired, bored, or irritated while



Prof. Kostas Terzidis



Automobile sensor simulation

He suggests the system for experiments of sensor communication between several automobiles in the VR space. In the workshop, he developed the system that acquires travel data and Light Detection and Ranging (Lidar) data from other vehicles and transfer it in real-time by using the TCP and Web socket. It is expected that the system will be provided as a tool for researchers on the interactive autonomous driving.



Prof. Matthew Swarts Georgia Institute of Technology

Virtual tour around historic sites in UC-win/Road

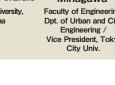
Historical structures are weathered as time goes but can be saved in the complete state by reproducing in CG. UC-win/Road and CG historic sites realizes the virtual tour around historic sites in VR that cannot be experienced in the real world

Dr. Amar Bennadji Robert Gordon University



Introduction Arizona State Univ. Dr.Yoshihiro Kobayashi Future development of FORUM8 products







Kostas Terzidis

Prof. Masaru Minagawa Faculty of Engineering, Dpt. of Urban and Civil Vice President, Tokyo

Seminar Award Ceremony

Cloud-based design competition for civil enginearing

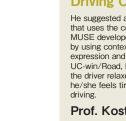
and construction works with BIM/CIM and VR!

~OSAKA Dream Island, the Future City for Entertainment

Juries

Virtual Design World Cup





























13:20-14:00

"What is the information environment in next generation that VR is aiming at?'

The 3rd Hagura Award

To spread and promote the state-of-the-art expression technology, State of the Art Technologies in Expression Association established "Hagura Award". The purpose of this award is to contribute to enhancing the quality of expression technologies and spreading them to various fields by commending contributions to the society through works and activities utilizing the state of the art expression technologies regardless of field. The winners will be announced in this session.



The 2nd Hagura Award "Bowl de Planetarium" Faculty of Art and Design, University of Toyama

Development of LOR

This system visualizes the differences between the hard reality seen from the driver's seat and the soft reality seen from the assistant driver's seat in the same VR space by using the shader By extracting where others are seeing from data of their point of view, it enables to do experiments and investigation on how the driver

recognizes positions where the driver should look at or objects evoking interests by applying the filter and special shader on a part of the projected image

Prof. Marcos Novac

Recapture a city

This project is about the auto-generation of virtual city images from colored segmentation images and videos by using Conditional Generative Adversarial Network (cGAN), which is one of the Generative Adversarial Network models. City models created with UC-win/Road used as learning data allow users to create driving videos instantly with sceneries of like Tokyo, Osaka, New York, and Paris from driving images divided in about 10 colors. In the presentation he will introduce the mechanism and the method of implement

Dr. Taro Narahara

Pantomime driving

He developed a tool to connect functions such as moving camera positions and changing scenarios by not using the keyboard or controlle but simple gestures when operating the VR system. This system is based on the CAVE system used in Victoria University and implements a variety visualization pattern including the movement while seeing side by combining UC-win/Road and Leap motion. Prof. Marc Aurel Schnabel Victoria University of Wellington

Presentation about how FORUM8 and World16 will apply each project to the development of FORUM8 products including the concrete prospect and future vision. Pencreach Yoann

University of California



New Jersey Institute of Technology



Executive officer and Development Senior Manager of FORUM8





-The 13th Design Conference IM&VR·i-Construction Session-The 13th Design Conference

10:00-15:15

With a view of BIM/CIM and i-Construction promoted by the MLIT, specialists in each field of seismic, disaster mitigation, and informational construction deliver speeches. In addition, FORUM8 staff introduces FORUM8 solutions using CIM and covering various phases such as performance design and maintenance and the activities based on the SDGs missions.

Opening Address

Opening address of The 13th FORUM8 Design Festival

10:00-10:10

10:10-11:10

CEO and President of FORUM8, Yuji Ito

Special Lecture1



Leader of Mechatronics Team, Smart Technology Development Group, Production Engineering Technology Dept., Taisei Advanced Center of Technology, Taisei Corporation

Mr. Hiroaki Aoki

Profile

He joined Taisei Corporation in 1996 and engaged in the civil engineering construction, recovery construction from disaster, and unmanned construction. He took his current position of development related to the construction ICT in 2016

"Technology development of autonomous operation of construction machine by using UC-Win/Road"

The autonomous operation technology for construction machine is one of the technologies that is expected to be established as soon as possible since it is easy to image usage scenes of the technology at construction sites in preparation for the reduction of the working population in the near future and can develop in business usages. Simulation technologies using UC-win/Road can test the algorithm of autonomous driving at any place and with no real machinery. This is an important technology that can accelerate the automation of construction machinery and is essential for the technical development of Taisei Corporation. In this lecture. Mr. Aoki introduces the examples of the technology.

Presentation1

11:10-12:00



Masakichi Yanagi, leader of FORUM8 UC-1 development Group Analysis support team

ngineer's Studio UC-win Road River, sewage, pollution, flood analysis **XD**SWMM

Dynamic Non-linear Analysis

FORUM8 is providing IM (Information Modeling) & VR solutions corresponding to the BIM/CIM promoted in the i-Construction that is aiming at improvement of the productivity at construction sites. In this presentation. Mr. Yanagi introduces case examples of the correspondence to the latest standards of BIM/CIM; the construction simulation (4D simulation) using VR Design Studio UC-win/Road and the 3DCG software Shade3D, the utilization of design data cooperated with 3DCAD software to the integrated model, and the utilization of data linkage between UC-1 design programs and addition/accounting cloud system. He also explains the UC-1 Cloud auto-design series that FORUM8 newly released and can design automatically via web application.

13:15-14:15



Special Lecture2

MIT Comparative Media Studies Program Creative Director, Education Arcade and the Game Lab. Prof. Scot Osterweil

Profile

He is the game designer being active in the industry and education fields and has created "Zoombinis" (mathematics, logics), "Vanished: The MIT/Smithsonian Game" (environment), "Labyrinth" (mathematics), "Kids Survey Network" (data, statistics), "Caduceus" (medical), and "iCue" (history). He is also a founder and creative director of Learning Games Network (www.learninggamesnetwork.org) and leads the Bill & Melinda Gates Foundation's Language Learning Initiative (ESL). "Quandary" designed by him won the Game of the Year given by Games for Change in 2013. He co-authored the book "Resonant Games (MIT Press)" and serves as the consultant on the Amazon TV series "Tumbleleaf" that won the Emmy Award.

"Play the future"

Although to purely consider the game as leisure is fascinating, it is actually a strong tool for thinking, planning, and creating. From the live action RPG, board game, Augmented Reality (AR) to Virtual Reality (VR), the MIT Game Lab has sought how to understand the world through playing and how to convince and give influences on others by utilizing the game. In this lecture, he explains his activities that applying games to education and skill training.

-Result Announcement and Award Ceremony-The 6th National Resilience Design Award NaRDA

"National Resilience Design Award" is the place to provide information and to improve skills by assembling concrete cases and results which is helping to strengthen the national land. Various brilliant works for strengthening of national land in the field of structural analysis (civil engineering and construction), ground and water engineering, and disaster prevention will be introduced.



method using degradation level check to jetties" Proposal of a new strength evaluation method using a loading experiment and general regular check results

Institute of Technology, PENTA-OCEAN CONSTRUCTION CO., LTD.

Juries





Prof. Masaru Prof. Akihiko

Wakai Science and

Engineering Department, Gunma University

Presentation2

Prof. Hiromichi

Yoshikawa

Chief of the judging

committee Professor Emeritus of

Tokyo City University

"FORUM8 FEM analysis solution"

Morita

Urban Environmenta

Engineering

Engineering

Department, Shibaura

Institute of Technology

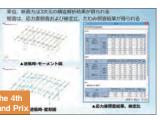
Laboratory, Civil

Brent Fleming, Director in charge of development, FORUM8 Hiroaki Sano, Leader of FEMLEEG / Geotechnical Team, System Development Group, FORUM8

A lot of highways are used over 30 years and require many repair and reinforcement. The structural analysis software Engineer's Studio® that can handle the investigation of current state, performance design, and seismic reinforcement is utilized in various cases. FORUM8 released the Geo Engineer's Studio Ver.2 as a geotechnical analysis program, and it corresponds to the elasto-plastic analysis, liquefaction, responding seismic method, and river seismic standard. In this lecture, he introduces the structure and geotechnical FEM analysis solutions and the analysis case examples using them including the comprehensive FEM analysis software FEMLEEG that is utilized for stress analysis in a variety of fields.

Design Festival 2020 is already planned to be held!

14th FORUM8 DESIGN FESTIVAL 2020-3DAYS+EVE All about FORUM8 & Products.



"Design of solar cell support structure' Detail design by 3D skeleton structure analysis

Next Energy & Resources Co., Ltd.

"High seismic retrofitting of freestanding retaining wall by using PC-Wall and reasonable performance verification type seismic design method"

-Actual-size experiment and verification by using high performance FEM fiber model-

Nippon Concrete Industries Co., Ltd.

Award

Grand Prix

Certificate, Trophy Critea high-spec notebook Portable SSD Amazon gift card

Excellent Award

Certificate, Altair mobile notebook Amazon gift card

Honorable Judge Award

Certificate, Action camera Amazon gift card

Nomination Award Certificate.Book card

*PCs are provided by THIRDWAVE Corporation.

14:15-15:15

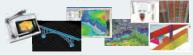
Usable product

•FEM analysis

- ·Engineer's Studio® dynamic non-linear analysis of 3D laminated plate / cable
- ·FEMLEEG Comprehensive finite element method analysis syst
- •WCOMD Studio
- ·Geotechnical analysis (GeoFEAS Flow3D / GeoFEAS2D / Dynamic effective stress analysis for ground (UWLC) 3D slope stability analysis LEM3D / 2D seepage analysis (VGFlow))
- •UC-1 series

·Structural analysis, bridge superstructure, bridge substructure, foundation design, temporary work design, road work design, water work design

Analysis support service



See you again next year'

17:00

Venue

FORUM8 Seminar room

Next Design Festival is already scheduled from 18 to 20 November 2020. After all Day3 sessions are finished, a farewell party will be held in gratitude

for the guests. hoping the reunion in next year. We are looking forward to having you attend.







Special event for premium users

Sight

seeing

le Sake

Technical tour Autumn leaves in Yamanashi / Sophisticated art and Fuji Gotemba Outlet store





Candidates: Participants of Design Festival Day1, Day2, Day3 Non-SPU users need to pay the participation fee.

Golf **Camellia Hills Country Club**



Camellia Hills Country Club http://www.camelliahills.com 265 Otake, Sodegaura, Chiba 299-0221 TEL 0438-75-4111 Starts at 9:24

(Departs Parking lot of Shinagawa Intercity A at 7:00) Candidates: Participants of Design Festival Day1, Day2, Day3 Non-SPU users need to pay the participation fee.

Book Information



100 **Greatest Bridge**





Shade3D **Official Guidebook 2020**

FORUM8 Shade3D Development Group



Expression Technology Test Official guidebook for data processing

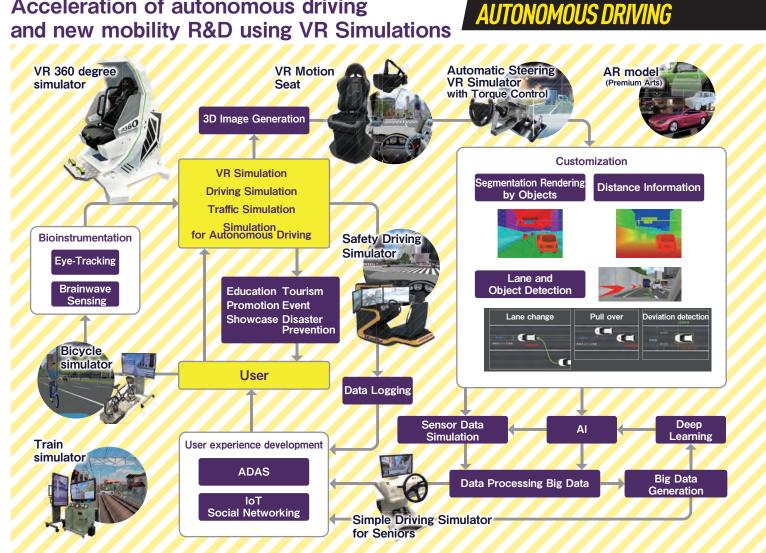
Expression **Technology Test**

Official guidebook for database

(Part-time instructor, Daido University)



Acceleration of autonomous driving



IM&VR Solution Demo corner

Engineer's Studio[®] 3D dynamic non-linear analysis UC-win/Road 3D VR software

Auto design BOX Culvert UC-1 series





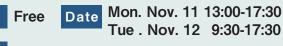


11/11 MON - 12 TUE UC-win/Road Expert Training Seminar



Fee

UC-win/Road Expert Training Seminar is a seminar for dealers who treat UC-win/Road and consultants who suggest VR business by using UC-win/Road.



Tue . Nov. 12 9:30-17:30 Venue FORUM8 Tokyo Head Office Seminar room

"Learning information "System Development for engineering through VR" Super Smart Society" Tatsuoki Inagaki **Toshiro Mise**



"Small Talk about FEM" I.Math essay II.Miscellany essay Yoshiaki Harada

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Kazuki Ishikawa



Golf



Venue Foyer

nformation Modeling *lintual*

Shade3D Made-in-Japan comprehensive 3DCG softwar

Shade3D_{wr}20

Construction Accounting Cloud accounting software series

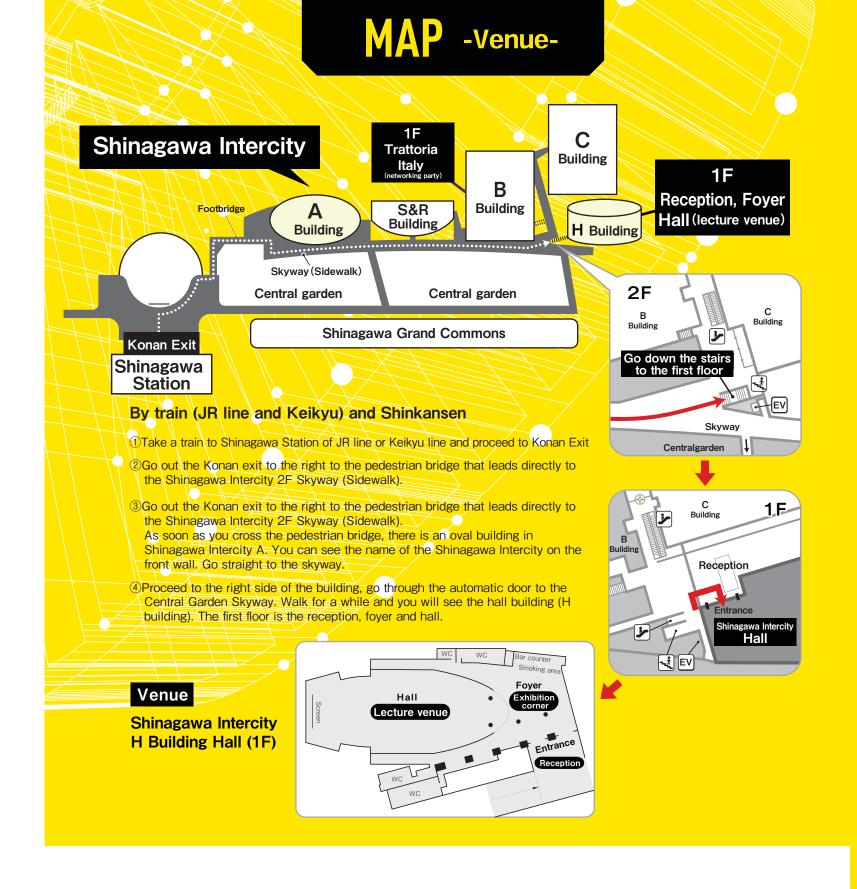


Day1 13:00 ~ 17:30 / Day2 9:30 ~ 17:30

Seminar overview / How to apply

Please contact your contact person of FORUM8 staff









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