

| Main Hall   |   |                                    |
|---|---|------------------------------------|
| Registration<br>8:30 - 9:15   |   |                                    |
| Welcome Address<br>9:15 - 9:30  |   | Yasushi Ikeda                      |
| Keynote Lecture X-1<br>9:30 - 10:15   | <b>Jesse Reiser</b> : Managing the Surfeit<br>Architect, Reiser + Umemoto /Princeton University   | introduction:<br>Yusuke Obuchi     |
| Keynote Lecture X-2<br>10:15 - 11:00  | <b>Makoto Sei Watanabe</b> : INDUTION DESIGN 1994→2011→<br>Architect, Makoto Sei Watanabe/Architect's Office  | introduction:<br>Hideto Horiike    |
| Panel Discussion<br>11:00 - 12:15<br><b>AAST WS:Emergency wooden Structures with algorithmic design</b>                     | <b>Daisuke Hirose, Taichi Sunayama</b><br><b>Jyunichiro Horikawa, Tsukasa Takenaka,</b><br><b>Daisuke Nagatomo</b>  | moderator<br>Marco Corbella        |
| Lunch<br>12:15 - 13:30  | lunch box survice is available<br>Grupe Photo will be taken at 13:15  |                                    |
| Keynote Lecture X-3<br>13:30 - 14:15  | <b>Tom Verebes</b> : Computation and the City<br>Associate Professo TheUniversity of Hong Kong  | introduction:<br>Yusuke Obuchi     |
| Keynote Lecture X-4<br>14:30 - 15:15  | <b>Kostas Terzidis</b> : Permutation Architecture<br>Professor, Harvard university GSD  | introduction:<br>Taro Narahara     |
| Coffee break<br>15:00 - 15:15   |   |                                    |
| session A<br>Shape Grammar and Mathematical Form-<br>finding<br><br>session coordinater Yusuke Obuchi<br>15:15 - 16:30      | Multiobjective Shape Optimization of Latticed Shells for Elastic Stiffness and Uniform Member Lengths   | Makoto Ohsaki                      |
|   | "Rokko Observatory" – Application of Geometric Engineering  | Ryota Kidokoro                     |
|   | Nihonbashi_0  | Taichi Kuma                        |
|   | Texture generation system from point cloud data acquired from a 3D laser scanner<br>Algorithmic Processes and Evolutionary Architectural Design for Non-Standard Geometries | Tomohiro Fukuda<br>Emmanuel Ruffo  |
| Coffee break<br>16:30 - 16:45   |   |                                    |
| session H<br>Generative Geometries<br>Parametric Design Optimization<br>session coordinater Sawako Kaijima<br>16:45 - 18:00 | Generative Models Utilized for Superior Design Development  | Jonathan Mirtschin                 |
|   | Why MEL?  | Richard Dank                       |
|   | Truss Optimization Using Genetic Algorithm Considering Ultimate Resistance  | Huaguo Wang                        |
|   | Procedural Ornament A Dataflow Approach to Subdivision<br>An experimental developable-transform based on the levelset method and topological skeleton                       | Michael Hansmeyer<br>Jelle Feringa |

| Room1   |  |                    |
|---|--|--------------------|
| Exhibition<br>13th 8:30<br>~14th 17:00  |  |                    |
| Exhibition<br>13th 8:30<br>~14th 17:00  | Metabolic Leaf   | Bojan Milan        |
|   | Geometrical designing of lamp shades making use of rapid prototyping system                      | Hiroataka Suzuki   |
|   | Design by Human Behavior   | Tomohiko Yamanashi |
|   | An Enumeration Algorithm of Minimally Rigid Graph Structure                                      | Atsushi Takizawa   |
|   | A Sustainable Timber Tectonics applying Algorithmic Design – Concept of Digital Wood Project     | Yasushi Ikeda      |
|   | Neuro fabrics w/ plants  | Tsukasa Takenaka   |
|   | Structural Optimization Method Inspired by Turing's Reaction-Diffusion Model                     | Kazuo Mitsui       |
|   | Designing an expressive exterior — applying algorithmic study to "Metal Work Shade"              | Tsukasa Ishizawa   |
| ALGORITHMIC PARKING   | ShutaTakagi  |                    |
| Guest Exhibition  | Tile-Makers and Their Applications to Art  | Jin Akiyama        |
| session B<br>Design with Human Computer Interaction<br>session coordinater Taro Narahara<br>15:15 - 16:45                 |  |                    |
| session B<br>Design with Human Computer Interaction<br>session coordinater Taro Narahara<br>15:15 - 16:45                 | Designing One-DOF Mechanisms for Architecture by Rationalizing Curved Folding                    | Tomohiro Tachi     |
|   | Designing User Interfacec for Algorithmic Design   | Yoshiaki Mima      |
|   | pSurface: Fabric I/O Device for Architectural Algorithmic Design                                 | Akira Wakita       |
|   | Human Computer Interaction in Architecture: Exploring the Brain-Body-Environment Continuum       | Toru Hasegawa      |
|   | A Schematic and Semi-Logical Model of Constructive Methodology Facilitating Computational Design | Haruyuki Fujii     |
| Coffee break<br>16:45 - 17:00   |  |                    |
| session D<br>Tectonics with generative methods<br>Structural Morphogenesis<br>session coordinater Mike Xie<br>17:00-17:45 | A Space Structure Based on an Algorithm Generating Ocean Wave                                    | Shuichi Asayama    |
|   | Interdisciplinary research processes for architectural design and production                     | Kathrin Margarethe |
|   | A Generation System of Framework in Consideration of Characteristic of Wind Force                | Toshifumi Mae      |

Red character indicate online presentators

Purple character indicate online presentators re-assained to another settion considering local time diffrence

| Main Hall  |   |                                  | Room1  |   |                                  |
|--|---|----------------------------------|--|---|----------------------------------|
| <b>session I</b><br>Emergence and Self-Organization<br>Heuristic Optimization of Structure<br><b>session coordinator Michel Hansmier</b><br>9:00 - 10:15 | Multi-Agent System Employed in Education of Parametric Non-Linear Architectural Design  | Weixin Huang                     | <b>session C</b><br>Computational theories applied to design<br><b>session coordinator Kostas Terzidis</b><br>9:00 - 10:15                                   | Architectural Form Created by Interaction with Wind   | Toshinobu Oku                    |
|  | <b>Nurbulations: Gastrulation and Modeling Systems of Control in Generative Art</b>   | <b>Frederico Fialho Teixeira</b> |  | Comparison between Top Down and Bottom Up Algorithms in Computational Design Practice   | Satoru Sugihara                  |
|  | Emerging Typologies   | Benjamin Dillenburger            |  | Analyzing Spatial Complexity within the Neighborhood of Visual Cognition  | Yasushi Sakai                    |
|  |   |                                  |  | Structure as Distribution   | Sawako Kaijima                   |
| Coffee break<br>10:15 - 10:30  |   |                                  | Coffee break<br>10:15 - 10:30  |   |                                  |
| <b>session K</b><br>Modeling and Simulation of complex system<br><b>session coordinator Makoto Ohsaki</b><br>10:30 - 11:45                               | <b>Linear Folded Stripe(s)</b>  | <b>Rupert Maleczek</b>           | <b>session J</b><br>Form for Digital Fabrication<br>Non-Standard Production Technique<br><b>session coordinator Tom Verebes</b><br>10:30 - 11:45             | Developments in Computational Design and Fabrication Methods Using Rhinoceros and Grasshopper as Platforms                            | Keisuke Toyoda                   |
|  | Six Scripts for Karl Blossfeldt   | P. Casey Mahon                   |  | Lingering Nature  | So Sugita                        |
|  | <b>Coalescence Vol.3</b>  | <b>Hiroko Nakatani</b>           |  | Hyper Thread: Holistic Computation Design   | Inamura Chikara                  |
|  | Material Organization   | Daisuke Hirose                   |  |   |                                  |
| Lunch<br>11:45 - 12:30   | lunch box service is available  |                                  |  |   |                                  |
| Keynote Lecture Y-1<br>12:30- 13:15  | <b>Marcos Novak</b><br>Architect, Professor, UC Santa Barbara   | introduction:<br>Naomi Matsnaga  |  |   |                                  |
| Keynote Lecture Y-2<br>13:15 - 14:00   | <b>Mike Xie</b> : Architecture and Urban design through Evolutionary Structural Optimization Algorithms<br>Professor, RMIT University | introduction:<br>Makoto Ohsaki   |  |   |                                  |
| Panel Discussion<br><b>Education of Algorithmic Design</b><br>14:00 - 15:15  | <b>Ludger Hovestadt</b> ETH Zurich CAAD<br><b>Tom Verebes</b> Hong Kong University<br><b>Toru Hasegawa</b> Columbia University        | moderator:<br>Yusuke Obuchi      |  |   |                                  |
| Coffee break<br>15:15 - 15:30  |   |                                  | Coffee break<br>15:15 - 15:30  |   |                                  |
| <b>session F</b><br>Biomimetics / Bionics /Biomimicry<br>Artificial Swarm intelligence<br><b>session coordinator Marcos Novak</b><br>15:30-16:30         | <b>Thinking With Computers and Fabricating With Machines</b>  | <b>Philippe Marin</b>            | <b>session G</b><br>Induction Cities<br><b>session coordinator Toru Hasegawa</b><br>15:30-16:30  | The Induction City for Solar Community of Dwelling Houses and Mansion Buildings with Collector Facade                                 | Kunihisa Kakumoto                |
|  | Interrelation of experiment and simulation in the development of <b>Aggregate Architectures</b>                                       | <b>Karola Dierichs</b>           |  | Game design for experiment rules of self organization   | Joaquim Silvestre                |
|  | Digital and virtual ecologies   | Denis Vlieghe                    |  | A Study of Validating a Possibility of City Design by Self-Organizing with a Simulation Program Generating a Grope Form of Buildings. | U-ichi Abe                       |
|  | <b>Algorithmic Morphogenesis of Hybrid Lightweight Structures</b>   | <b>Ioanna Symeonidou</b>         |  | Generative Applications inspired by Emergent Behavior   | Taro Narahara                    |
| Coffee break<br>16:30 - 16:45  |   |                                  | Coffee break<br>16:30 - 16:45  |   |                                  |
|  |   |                                  | Keynote Lecture Y-3<br>16:45 - 17:30   | <b>Hanif Kara (Video presentation)</b><br>Structural engineer, Adams Kara Taylor  | introduction<br>Mitsuhiro Kanada |
|  |   |                                  | Keynote Lecture Y-4<br>17:30 - 18:15   | <b>Michael Weinstock (Video presentation)</b><br>Architect, Professor, AA school LONDON   | introduction:<br>Yusuke Obuchi   |
| Reception<br>18:30 - 20:30   | at AIJ Hall   |                                  | Red character indicate online presentators<br>Purple character indicate online presentators re-assained to another session considering local time difference |   |                                  |