Computational Geometry Week 2014

The 30th Annual Symposium on Computational Geometry
(SoCG 2014)

June 8 (Sun) - 11(Wed), 2014
Kyoto, Japan
The conference will take place at Centennial Memorial Hall, Clock Tower Centennial Hall, Kyoto University, Kyoto, Japan.

The most recognizable structure of the Kyoto University campus, the Clock Tower was designed by Goichi Takeda, the university’s first Professor of Architecture, and completed in 1925. With attention given to Secession-style design in all of its facets, the sonorous feel of the exterior makes for a building of immense historical significance.

Using the most advanced technology of the time, the Clock Tower was one of the first university structures to be built with reinforced concrete. The interior of the hall itself was assembled using angle-plates, rivets and steel trusses. In the eight decades since it was opened, the Clock Tower has come to symbolize Kyoto University, having served variously as the lecture hall for the Faculties of Law and Economics, as well as, in more recent times, the Administration Bureau.
Conference Venue Map
June 8 (Sunday), 2014

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<td>Room</td>
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<td>Time</td>
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<td>14:30-16:00</td>
<td>Geometric Structures with Symmetry and Periodicity</td>
<td>Geometric Optimization in Wireless Communication and Sensing</td>
<td>Video Session (14:30-15:30) YRF Fast Forward (15:30-16:00)</td>
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June 9 (Monday), 2014

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<td>Geometric Structures with Symmetry and Periodicity</td>
<td>Extension Complexity: An Update and Future Directions</td>
<td>Young Researchers Forum Session 2 (15:00-16:30)</td>
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June 10 (Tuesday), 2014

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<td>Invited Talk: Marie-Paule Cani</td>
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June 11 (Wednesday), 2014

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Session 1a
Room: International Conference Hall I
Chair: Joe Mitchell

[9:30-9:55]  
**Counting and Enumerating Crossing-free Geometric Graphs**  
Manuel Wettstein

[9:55-10:20]  
**Light Spanners for Snowflake Metrics**  
Lee-Ad Gottlieb and Shay Solomon

[10:20-10:45]  
**There are Plane Spanners of Maximum Degree 4**  
Nicolas Bonichon, Iyad Kanj, Ljubomir Perković, and Ge Xia

[10:45-11:10]  
**New and Improved Spanning Ratios for Yao Graphs**  
Luis Barba, Prosenjit Bose, Mirela Damian, Rolf Fagerberg, Wah Loon Keng, Joseph O’Rourke, André van Renssen, Perouz Taslakian, Sander Verdonschot, and Ge Xia

Session 1b
Room: International Conference Hall II
Chair: David Avis

[9:30-9:55]  
**On Constant Factors in Comparison-Based Geometric Algorithms and Data Structures**  
Timothy M. Chan and Patrick Lee

[9:55-10:20]  
**Progressive Geometric Algorithms**  
Sander Alewijnse, Timur Bagautdinov, Mark De Berg, Quirijn Bouts, Alex Ten Brink, Kevin Buchin, and Michel Westenberg

[10:20-10:45]  
**On the Impossibility of Dimension Reduction for Doubling Subsets of ℓ_p**  
Yair Bartal, Lee-Ad Gottlieb, and Ofer Neiman

[10:45-11:10]  
**The Limited Blessing of Low Dimensionality: when 1 – 1/d is the Best Possible Exponent for d-dimensional Geometric Problems**  
Dániel Marx and Anastasios Sidiropoulos
Session 2

Invited Talk

[11:30-12:30]
Design of 3D printed mathematical art
Henry Segerman

Best Paper Award

[12:30-12:55]
Embeddability in the 3-sphere is Decidable
Jiří Matoušek, Eric Sedgwick, Martin Tancer, and Uli Wagner
SUNDAY 14:30 - 16:00

Geometric Structures with Symmetry and Periodicity
Room : International Conference Hall I

[14:30-14:35]
Welcome

[14:35-14:55]
Embeddings of the square flat torus and smooth fractals
Boris Thibert

[14:55-15:20]
Voronoi diagrams and Bolza surface
Monique Teillaud

[15:20-16:00]
Exact computation with hyperbolic 3-manifolds
Benjamin Burton

Geometric Optimization in Wireless Communication and Sensing
Room : International Conference Hall II

[14:30?15:10]
Shortest Paths in Intersection Graphs of Unit Disks
Sergio Cabello

[15:15?15:55]
Barriers in Networks: The Good, the Bad and the Ugly
Valentin Polishchuk
Video Session

[14:30-15:30]
The Connect-The-Dots Family of Puzzles: The Video
Mira Kaiser, Tim van Kapel, Gerwin Klappe, Marc van Kreveld, Maarten Löffler, and Frank Staals
LiveCG: an Interactive Visualization Environment for Computational Geometry
Sebastian Kürten and Wolfgang Mulzer
Trajectory Grouping Structure: the Video
Kevin Buchin, Maike Buchin, Marc van Kreveld, Bettina Speckmann, and Frank Staals
Visualizing Hyperbolic Voronoi Diagrams
Frank Nielsen and Richard Nock
Animation of an Algorithm for Drawing Graphs in 3D
Lezar DeGuzman and Stephen Wismath
Visualization of Floater and Gotsman’s Morphing Algorithm
Ivaylo Ilinkin
Geometric k-th Shortest Paths: the Applet
John Hershberger, Valentin Polishchuk, Bettina Speckmann, and Topi Talvitie
Polytope Offsets and Straight Skeletons in 3D
Franz Aurenhammer and Gernot Walzl

YRF Fast Forward

[15:30-16:00]
Quickly Placing a Point to Maximize Angles
Boris Aronov and Mark Yagnatinsky
Linear Space Adaptive Data Structure for Planar Range Reporting
Ananda Swarup Das and Prosenjit Gupta
Steiner Point Reduction in Planar Delaunay Meshes
Ahmed Abdelkader, Scott A. Mitchell, and Mohamed S. Ebeida
Constraint-based surface mapping via hyperbolic orbifold metrics
Alex Tsui
Efficient and Robust Persistent Homology for Measures
Mickaël Buchet, Frédéric Chazal, Steve Y. Oudot, and Donald R. Sheehy
Handling column accumulation in persistent homology computations
Hubert Wagner
Inverse-Beacon Guarding
Michael Biro
Hierarchical distance-based aggregation
Mukulika Ghosh and Nancy M. Amato
Flipping Edge-Labelled Triangulations
Prosenjit Bose Anna, Lubiw, Vinayak Pathak, and Sander Verdonschot
Crossing numbers and characterizations of monotone drawings of $K_n$
Martin Balko, Radoslav Fulek, and Jan Kynčl
Detecting Weakly Simple Polygons
Hsien-Chih Chang, Jeff Erickson, and Chao Xu
Unfolding \( k \)-Monotone Linear Trees

Ching-Hao Liu and Sheung-Hung Poon
**SUNDAY 16:30 - 18:00**

**Geometric Structures with Symmetry and Periodicity**  
Room: International Conference Hall I

[16:30-17:10]  
**Coordinated motions of repetitive structures from a mechanical point of view**  
Hiro Tanaka

[17:10-17:30]  
**Crossing-free straight-line drawing of graphs on the flat torus**  
Luca Castelli Aleardi, Olivier Devillers, and Éric Fusy

[17:30-17:50]  
**The Betweenness Centrality on 1-Dimensional Periodic Graphs**  
Norie Fu and Vorapong Suppakitpaisarn

**Geometric Optimization in Wireless Communication and Sensing**  
Room: International Conference Hall II

[16:30-17:10]  
**Cooperative Navigation for Robot Swarms**  
Sándor Fekete [17:15-18:00]

**Discussion and open problem session**  
The Organizers

**Young Researchers Forum Session 1**  
Room: International Conference Hall III

[16:30-16:45]  
**Quickly Placing a Point to Maximize Angles**  
Boris Aronov and Mark Yagnatinsky

[16:45-17:00]  
**Linear Space Adaptive Data Structure for Planar Range Reporting**  
Ananda Swarup Das and Prosenjit Gupta

[17:00-17:15]  
**Steiner Point Reduction in Planar Delaunay Meshes**  
Ahmed Abdelkader, Scott A. Mitchell, and Mohamed S. Ebeida

[17:15-17:30]  
**Constraint-based surface mapping via hyperbolic orbifold metrics**  
Alex Tsui

[17:30-17:45]  
**Efficient and Robust Persistent Homology for Measures**  
Mickaël Buchet, Frédéric Chazal, Steve Y. Oudot, and Donald R. Sheehy

[17:45-18:00]  
**Handling column accumulation in persistent homology computations**  
Hubert Wagner
MONDAY 9:15 - 10:55

Session 3a  Room: International Conference Hall I
Chair: Jack Snoeyink

[9:15-9:40]
**Optimal Geometric Flows via Dual Programs**
Sylvester Eriksson-Bique, Valentin Polishchuk, and Mikko Sysikaski

[9:40-10:05]
**Sub-linear Time Hybrid Approximations for Least Trimmed Squares Estimator and Related Problems**
Hu Ding and Jinhui Xu

[10:05-10:30]
**Quasi-Polynomial Time Approximation Scheme for Sparse Subsets of Polygons**
Sariel Har-Peled

[10:30-10:55]
**A Near-optimal Approximation Algorithm for Asymmetric TSP on Embedded Graphs**
Jeff Erickson and Anastasios Sidiropoulos

Session 3b  Room: International Conference Hall II
Chair: Hiro Ito

[9:15-9:40]
**Outerstring Graphs are \(\chi\)-bounded**
Alexandre Rok and Bartosz Walczak

[9:40-10:05]
**Improved Bounds for the Conflict-free Chromatic Art Gallery Problem**
Andreas Bärtschi, Subir Kumar Ghosh, Matúš Mihalák, Thomas Tschager, and Peter Widmayer

[10:05-10:30]
**Linear Transformation Distance for Bichromatic Matchings**
Oswin Aichholzer, Luis Barba, Thomas Hackl, Alexander Pilz, and Birgit Vogtenhuber

[10:30-10:55]
**Delaunay Triangulations with Disconnected Realization Spaces**
Arnau Padrol and Louis Theran

Session 3c  Room: International Conference Hall III
Chair: Naoki Katoh

[9:15-9:40]
**Eliminating Tverberg Points, I. An Analogue of the Whitney Trick**
Isaac Mabillard and Uli Wagner

[9:40-10:05]
**Higher Dimensional Cheeger Inequalities**
Anna Gundert and May Szeflak
[10:05-10:30]
Incidences between Points and Lines in $\mathbb{R}^d$
Micha Sharir and Noam Solomon

[10:30-10:55]
On Triple Intersections of three Families of Unit Circles
Orit E. Raz, Micha Sharir, and József Solymosi
MONDAY 11:15 - 12:30

Session 4a  
Room: International Conference Hall I  
Chair: Uli Wagner

[11:15-11:40]  
Finding the Largest Disk Containing a Query Point in Logarithmic Time with Linear Storage  
Tal Kaminker and Micha Sharir

[11:40-12:05]  
Smallest Enclosing Ball for Probabilistic Data  
Alexander Munteanu, Christian Sohler, and Dan Feldman

[12:05-12:30]  
Peeling Potatoes Near-optimally in Near-linear Time  
Sergio Cabello, Josef Cibulka, Jan Kynčl, Maria Saumell, and Pavel Valtr

Session 4b  
Room: International Conference Hall II  
Chair: Yushi Uno

[11:15-11:40]  
On the Complexity of Randomly Weighted Voronoi Diagrams  
Sariel Har-Peled and Benjamin Raichel

[11:40-12:05]  
A Census of Plane Graphs with Polyline Edges  
Andrea Francke and Csaba Toth

[12:05-12:30]  
Polynomials Vanishing on Grids: The Elekes-Rónyai Problem Revisited  
Orit E. Raz, Micha Sharir, and József Solymosi

Session 4c  
Room: International Conference Hall III  
Chair: Maartin Loeffler

[11:15-11:40]  
Using Convex Relaxations for Efficiently and Privately Releasing Marginals  
Cynthia Dwork, Aleksandar Nikolov, and Kunal Talwar

[11:40-12:05]  
Near-Linear Algorithms for Geometric Hitting Sets and Set Covers  
Pankaj K. Agarwal and Jiangwei Pan

[12:05-12:30]  
Better Embeddings for Planar Earth-Mover Distance over Sparse Sets  
Artūrs Bačkurs and Piotr Indyk
CG Week Plenary Talk

[13:30-14:30]
Decomposabilities and Reversibilities of P2-tiles
Jin Akiyama
MONDAY 15:00 - 16:20

Geometric Structures with Symmetry and Periodicity
Room : International Conference Hall I

[15:00-15:40] Auxetic periodic materials
Ciprian Borcea
[15:40-16:00] Ultrarigid periodic frameworks
Louis Theran
[16:00-16:20] Linking Rigid Bodies Symmetrically
Bernd Schulze and Shin-ichi Tanigawa

Extension Complexity: An Update and Future Directions
Room : International Conference Hall II

[15:00-15:05] Opening
David Avis
[15:05-15:45] Extended formulations: Introduction to lower bounding techniques
Hans Tiwary
[15:45-16:25] Extended formulations: Lower bounds and matching polytope
Kanstantsin Pashkovich

Young Researchers Forum Session 2
Room : International Conference Hall III

[15:00-15:15] Inverse-Beacon Guarding
Michael Biro
Mukulika Ghosh and Nancy M. Amato
[15:30-15:45] Flipping Edge-Labelled Triangulations
Prosenjit Bose Anna, Lubiw, Vinayak Pathak, and Sander Verdonschot
[15:45-16:00] Crossing numbers and characterizations of monotone drawings of $K_n$
Martin Balko, Radoslav Fulek, and Jan Kynčl
[16:00-16:15]
Detecting Weakly Simple Polygons
Hsien-Chih Chang, Jeff Erickson, and Chao Xu
[16:15-16:30]
Unfolding $k$-Monotone Linear Trees
Ching-Hao Liu and Sheung-Hung Poon
MONDAY 16:40 - 18:00

Geometric Structures with Symmetry and Periodicity
Room: International Conference Hall I

[16:40-17:20]
Dynamics of protein molecules in crystals: “Please hold still so we can take your picture”
George Phillips

[17:20-17:40]
Approximate Symmetries of Point Patterns
Helmut Alt for Claudia Dieckmann

[17:40-18:00]
Symmetry-aware placement of hydrogens in molecules: Reduce and cctbx
Jack Snoeyink, Auston Sterling, and Vishal Verma

Extension Complexity: An Update and Future Directions
Room: International Conference Hall II

[16:45-17:25]
Extended formulations for sparsity matroids
Yoshio Okamoto

[17:25-17:55]
Polynomial size matching polytopes
David Avis

[17:55-18:00]
Closing
Naoki Katoh
Session 5a  
Room: International Conference Hall I  
Chair: Sheung-Hung Poon

[9:15-9:40]
Higher-Quality Tetrahedral Mesh Generation for Domains with Small Angles by Constrained Delaunay Refinement  
Jonathan Shewchuk and Hang Si

[9:40-10:05]
On the Reconstruction of Convex Sets from Random Normal Measurements  
Hiba Abdallah and Quentin Mérigot

[10:05-10:30]
Intersection of Paraboloids and Application to Minkowski-Type Problems  
Pedro Machado Manhães de Castro, Quentin Mérigot, and Boris Thibert

[10:30-10:55]
Efficient Random-Walk Methods for Approximating Polytope Volume  
Ioannis Emiris and Vissarion Fisikopoulos

Session 5b  
Room: International Conference Hall II  
Chair: Yoshio Okamoto

[9:15-9:40]
The Persistent Homology of Distance Functions under Random Projection  
Don Sheehy

[9:40-10:05]
Discrete Systolic Inequalities and Decompositions of Triangulated Surfaces  
Éric Colin de Verdière, Alfredo Hubard, and Arnaud de Mesmay

[10:05-10:30]
Computing Topological Persistence for Simplicial Maps  
Tamal Dey, Fengtao Fan, and Yusu Wang

[10:30-10:55]
Induced Matchings of Barcodes and the Algebraic Stability of Persistence  
Ulrich Bauer and Michael Lesnick
Session 6

Invited Talk

[11:15-12:15]

Towards Expressive 3D Modelling: new challenges for geometric computing
Marie-Paule Cani
TUESDAY 13:30 - 14:20

Session 7a
Room: International Conference Hall I
Chair: Matthew Katz

[13:30-13:55]
Computing the Fréchet Distance with Shortcuts is NP-hard
Maike Buchin, Anne Driemel, and Bettina Speckmann

[13:55-14:20]
The Discrete Fréchet Distance with Shortcuts via Approximate Distance Counting and Selection
Rinat Ben Avraham, Omrit Filtser, Haim Kaplan, Matthew Katz, and Micha Sharir

Session 7b
Room: International Conference Hall II
Chair: Ileana Streinu

[13:30-13:55]
A Framework for Computing the Greedy Spanner
Quirijn Bouts, Alex Ten Brink, and Kevin Buchin

[13:55-14:20]
Continuously Flattening Polyhedra Using Straight Skeletons
Zachary Abel, Erik D. Demaine, Martin Demaine, Jin-Ichi Itoh, Anna Lubiw, Chie Nara, and Joseph O’Rourke

Session 7c
Room: International Conference Hall III
Chair: Shinichi Tanigawa

[13:30-13:55]
Two-Point $L_1$ Shortest Path Queries in the Plane
Danny Z. Chen, Rajasekhar Inkulu, and Haitao Wang

[13:55-14:20]
Better $\epsilon$-Dependencies for Offline Approximate Nearest Neighbor Search, Euclidean Minimum Spanning Trees, and $\epsilon$-Kernels
Sunil Arya and Timothy M. Chan
Geometric Puzzles and Games

Room: International Conference Hall I

[14:30-14:35]
Opening
Hiro Ito

[14:35-15:05]
Recent Results in Recreational Computer Science
Erik D. Demaine

[15:05-15:35]
Things that Roll, Pull and Glide
Kevin Buchin

[15:35-16:05]
From Japanese Old Math
Jin Akiyama

Triangulations in Geometry and Topology

Room: International Conference Hall II

[14:30-15:10]
Using Normal Surfaces to Decide Embeddability
Eric Sedgwick

[15:20-16:00]
Courcelle’s theorem for triangulations
Benjamin A. Burton
TUESDAY 16:30 - 18:00

Geometric Puzzles and Games

Room : International Conference Hall I

[16:25-16:55]
Puzzles in Wood, Puzzles on Paper, and Puzzles in Bytes
Marc van Kreveld

[16:55-17:25]
Placing Polyominoes on the Grid
Matias Korman

[17:25-17:55]
Packing Pie
Mike Paterson

[17:55-18:00]
Closing
Stefan Langerman

Triangulations in Geometry and Topology

Room : International Conference Hall II

[16:30-17:10]
Structure on the set of triangulations
Henry Segerman

[17:20-18:00]
Stacked triangulations of polytopes and manifolds
Satoshi Murai
WEDNESDAY 9:15 - 10:55

Session 8a  
Room: International Conference Hall I  
Chair: David Mount

[9:15-9:40]  
**Free Edge Lengths in Plane Graphs**  
Zachary Abel, Robert Connelly, Sarah Eisenstat, Radoslav Fulek, Filip Momic, Yoshio Okamoto, Tibor Szabo, and Csaba Toth

[9:40-10:05]  
**Weight Balancing on Boundaries and Skeletons**  
Luis Barba, Jean Lou De Carufel, Offried Cheong, Michael Dobbins, Rudolf Fleischer, Akitoshi Kawamura, Matias Korman, Yoshio Okamoto, Janos Pach, Yuan Tang, Takeshi Tokuyama, Sander Verdonschot, and Tianhao Wang

[10:05-10:30]  
**Separation by Convex Pseudo-Circles**  
Nicolas Chevallier, Augustin Fruchard, Dominique Schmitt, and Jean-Claude Spehner

[10:30-10:55]  
**Euclidean Steiner Shallow-Light Trees**  
Shay Solomon

Session 8b  
Room: International Conference Hall II  
Chair: Benjamin Burton

[9:15-9:40]  
**Measuring Distance between Reeb Graphs**  
Ulrich Bauer, Xiaoyin Ge, and Yusu Wang

[9:40-10:05]  
**Stochastic Convergence of Persistence Landscapes and Silhouettes**  
Frederic Chazal, Brittany Terese Fasy, Fabrizio Lecci, Alessandro Rinaldo, and Larry Wasserman

[10:05-10:30]  
**The Morse Theory of Čech and Delaunay Filtrations**  
Ulrich Bauer and Herbert Edelsbrunner

[10:30-10:55]  
**Gromov-Hausdorff Approximation of Filament Structure Using Reeb-type Graph**  
Frederic Chazal and Jian Sun
**WEDNESDAY 11:15 - 12:55**

**Session 9a**  
Room: International Conference Hall I  
Chair: Monique Teillaud

[11:15-11:40]  
**Metric Embedding, Hyperbolic Space, and Social Networks**  
Kevin Verbeek and Subhash Suri

[11:40-12:05]  
**Sampling with Removal in LP-type Problems**  
Bernd Gärtner

[12:05-12:30]  
**Liftings and Stresses for Planar Periodic Frameworks**  
Ciprian Borcea and Ileana Streinu

[12:30-12:55]  
**The Opaque Square**  
Adrian Dumitrescu and Minghui Jiang

**Session 9b**  
Room: International Conference Hall II  
Chair: Otfried Cheong

[11:15-11:40]  
**Merge Graphs of Join and Split Trees**  
Suyi Wang, Yusu Wang, and Rephael Wenger

[11:40-12:05]  
**Distinct Distances on Algebraic Curves in the Plane**  
János Pach and Frank de Zeeuw

[12:05-12:30]  
**Lower Bounds on Geometric Ramsey Functions**  
Marek Eliáš, Jiří Matoušek, Edgardo Roldán-Pensado, and Zuzana Safernová

[12:30-12:55]  
**Curves in $\mathbb{R}^d$ Intersecting every Hyperplane at most $d + 1$ Times**  
Imre Bárány, Jiří Matoušek, and Attila Pór
WEDNESDAY 14:30-16:10

Workshop in Honor of 65th Birthday of Tetsuo Asano: Growing Collaboration in Computational Geometry
Room : International Conference Hall I

[14:30-14:50]
Opening
A Mathematical Expedition into Zone Diagrams
Takeshi Tokuyama

[14:50-15:30]
Efficient algorithms with small workspace: shortest paths in grid graphs revisited
David Kirkpatrick

[15:30-16:10]
Geometric $k$th Shortest Paths: Life and Death in the Parking Garage
John Hershberger
WEDNESDAY 16:30-18:35

Workshop in Honor of 65th Birthday of Tetsuo Asano: Growing Collaboration in Computational Geometry
Room: International Conference Hall I

[16:30-17:10]
New Imaging Algorithms in Computational Geometry with Applications
Danny Z. Chen

[17:10-17:50]
In how many ways can you stab four congruent balls?
Otfried Cheong

[18:00-18:30]
Designing Algorithms with Limited Work Space
Tetsuo Asano

[18:30-18:35]
Closing
Lunch Map : Kyoto University Cafeteria Map
1. La Tour ラ・トゥール French Restaurant  
11:00-15:00, 17:00-22:00, less than 2000 yen (for lunch), 8000 yen (for dinner)

2. Tully’s Coffee タリーズコーヒー (B1F) Cafe  
9:00-19:00 Monday through Friday, 9:00-18:00 Saturday, 10:00-18:00 Sunday

3. Central Cafeteria 中央食堂 School Cafeteria  
8:00-21:00 Closed on Saturday & Sunday, less than 500 yen

4. Camphora カンフォーラ Cafe Restaurant  
8:00 - 22:00 Monday through Friday, 11:00-15:00 Saturday & Sunday less than 1000 yen (for lunch), less than 2000 yen (for dinner)

5. Cafeteria Renais ルネ School Cafeteria  
11:00-22:00 Monday through Friday, 11:00-19:30 Saturday, 11:00-14:00 Sunday, less than 500 yen
Lunch Map : Near Kyoto University
1. Madoi まどい Western
   11:30-14:30, 17:00-21:30 Closed on Sunday, appr. 1000 yen (for lunch)

2. Koanosuke こあの助 (2F) Thai curry
   11:30-15:00, 17:30-22:30, less than 1000 yen

3. Le cafe ル・カフェ French cafe
   Closed on Monday, 1500 yen for lunch

4. James Kitchen ジェイムスキッチン
   Hamburger steak, 11:30-23:00 Open everyday, less than 1000 yen

5. Aozora アオゾラ Thai curry
   12:00-15:00, 17:30-21:00, Close on Thursday, less than 1000 yen

6. Nishiki warai 錦わらい
   Japanese pancake お好み焼き
   11:30-15:00, 17:00-1:00 Open everyday, less than 1000 yen

7. Second House セカンドハウス
   Cafe & light meals, 11:30-23:00 Open everyday, less than 1000 yen

8. Cafe voir clair カフェボアクリール
   Cafe & light meals, 11:00-20:00 Open everyday, less than 1000 yen

9. Shinshindou 進々堂 Cafe & light meals
   8:00-17:45 Closed on Tuesday, less than 1000 yen

10. Boogaloo café ブーガルーカフェ
    Cafe & pasta, 12:00-23:00 Open everyday, appr. 1000 yen

11. Goya ゴーヤ Okinawa & Asian
    12:00-16:00, 18:00-23:00, Closed on Wednesday, less than 1000 yen (for lunch)

12. Matsuo まつお Japanese noodle(sara-udon)
    11:30-14:30, 17:00-21:00 Closed on Friday, less than 1000 yen

13. Ryumon 龍門 Chinese (Sichuan) 四川料理
    11:00-14:00, 17:00-23:30, Open everyday, less than 1000 yen

14. Tosca トスカ Vegetarian
    11:30-22:00 Closed on Sunday & Monday, less than 1500 yen (for lunch)

15. Raju ラジュ Indian
    11:00-15:00, 17:00-23:00 Open everyday, less than 1500 yen

16. Kafu かふう Tempula
    11:30-14:00, 17:00-21:00, Closed on Sunday & Monday, less than 1500 yen (for lunch) less than 8000 yen (for dinner)

17. Sujata スジャータ Vegetarian
    12:00-15:00, 17:00-21:00, Closed on Saturday & Sunday, less than 1000 yen

18. Matuya まつや Beef ball
    Open everyday, less than 500 yen
19. Sukiya すきya Beef ball
    Open everyday, less than 500 yen

20. Ousho 王将 Japanese style Chinese
    Open everyday, less than 1000 yen

21. Subway (sandwich)
    Open everyday, less than 600 yen

22. Omuraya おむら家 Japanese pub 居酒屋
    17:00-23:30 Open everyday, 3000～4000 yen

23. Moan 茂庵 (on the top of the hill)
    Cafe & light meals, 11:30-17:00 Closed on Monday, less than 1000 yen
Banquet place: Kyoto Royal Hotel & SPA

★ Acess

- From Conference Venu:
  - Free Shuttle Bus (Provide by SoCG2014, Tuseday 18:15)
  - Approximately 10 minutes by Taxi (appr. 1,200 Yen)

- From Kyoto Shiyakushomae Subway Station:
  - Approximately 1 minute on foot.

- From JR and Kintetsu Kyoto Station:
  - Approximately 15-20 minutes by Taxi.

- From Keihan Sanjo Station:
  - Approximately 5 minutes on foot.

- From Hankyu Kawaramachi Station:
  - Approximately 10 minutes on foot.
Travel to the conference venue (from Kyoto Station)

- by Taxi
- by Bus
  Take Kyoto City Bus Line #206 or #17 at Kyoto station bus terminal. It takes approx. 30 minutes. Flat rate fares (230 yen) will be charged.

- City Bus All-day Pass
  Adult: ¥500 / Child: ¥250
  Can be used within the allocated zone of the city.
  Valid within the allocated zone.
  Unlimited use on the same day.
  When traveling outside of the allocated zone, it is necessary to pay the extra amount.
Card for Taxi Drivers

Please go to Kyoto University Clock Tower Centennial Hall.
京都大学百周年時計台記念館までお願いします。

Please go to Kyoto Royal Hotel & SPA.
京都ロイヤルホテル&スパまでお願いします。

Please go to JR Kyoto station.
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Sponsors and supports

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