

CURRICULUM VITAE

Kazumi Saito

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Birth date: January 21, 1963, **Place of birth:** Tokyo, Japan, **Nationality:** Japan

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Education:

- University of Tokyo, Ph.D., 1998, (Engineering)
- Keio University, B.A., 1985, (Science and Technology)

Employment:

- Professor, School of Management and Information, University of Shizuoka (since Jul., 2007)
- Senior Research Scientist (Distinguished Technical Members), NTT Communication Science Lab. (Apr., 2000 to Jun., 2007)
- Senior Research Scientist, NTT Communication Science Lab. (Feb., 1999 to Mar., 2000)
- Associate Manager, NTT R&D Management Dept. (Mar., 1997 to Jan., 1999)
- Senior Research Scientist, NTT Communication Science Lab. (Mar., 1994 to Feb., 1997)
- Research Scientist, NTT Communication Science Lab. (Sep., 1992 to Feb., 1994)
- Visiting Scholar, University of Ottawa, Canada (Sep., 1991 to Aug., 1992)
- Research Engineer, NTT Information & Communication Lab. (Apr., 1985 to Aug., 1991)

Teaching Activities:

- Professor at University of Shizuoka (since Jul., 2007)
- Consulting assistant professor at Nara Institute of Science and Technology (Jun., 2004 Jun., 2007)
- Part time lecturer at Tokai University – Fall, 2003; Fall, 2004; Fall, 2005; Fall, 2006
- Part time lecturer at Nagoya Institute of Technology – Spring, 2003; Spring, 2004; Spring, 2005

Research Interests

- Statistical Machine Learning
- Data Mining and Knowledge Discovery
- Social Networks

Awards:

- Best Paper Award of Database Society of Japan (DBSJ), 2011, “Extracting Functional Communities in Networks”
- Best Paper Award of Japanese Society for Industrial and Applied Mathematics (JSAIM), 2009, “Extracting Major Latent Topics in Document Streams Using PMM-PCA”
- Best Paper Award of Japanese Society for Software Science and Technology(JSSST), 2009, “Extraction of Overlapping Community Structures from Human Relationships”
- Contribution award of Institute of Electronics, Information and Communication Engineers, Information and Systems Society (IEICE ISS), 06/2008
- Best Paper Award of Japanese Society of Artificial Intelligence (JSAI), 07/1999, “A new regularization based on the MDL principle”
- Best Paper Award of Information Processing Society of Japan (IPSJ), 06/1997, “A connectionist approach to numeric law discovery”

Membership of Academic Society:

- Database Society of Japan (DBSJ)
- Behaviormetric Society of Japan (BSJ)
- Japanese Society for Industrial and Applied Mathematics (JSAIM)
- Japanese Society for Software Science and Technology (JSSST)
- Institute of Electronics, Information, and Communication Engineers (IEICE)
- Japanese Neural Networks Society (JNNS)
- Japanese Society of Artificial intelligence (JSAI)
- Information Processing Society of Japan (IPSJ)

Academic Activities:

- Editorial board of Institute of Electronics, Information, and Communication Engineers (Jun., 2003 to Jun., 2006)
- Editorial board of Japanese Society of Artificial Intelligence (Jan., 2000 to Jun. 2004)

Refereed Journal Papers:

1. Takayasu Fushimi, Kazumi Saito, Tetsuo Ikeda, Nobuaki Mutoh, "Proposing Set Betweenness Centrality Measures Focusing on Nodes' Collaborative Behaviors and its Application, " to appear in Trans. of IEICE.
2. Takayasu Fushimi, Kazumi Saito, Tetsuo Ikeda, and Kazuhiro Kazama, "An Analysis of the Relation between Functional Community and Network Motif Based on Link Directions (in Japanese), " to appear in Trans. of IPSJ TOM.
3. Kazumi Saito, Masahiro Kimura, Kouzou Ohara, and Hiroshi Motoda, "Detecting Changes in Information Diffusion Pattern over Social Network," to appear in ACM Transactions on Intelligent Systems and Technology (TIST).
4. Masaki Mitsuyama, Kazumi Saito, Tetsuo Ikeda, Seiya Okubo, Nobuaki Mutoh, "Improving Pivot Selection Techniques by Iterative Swapping for Similarity Search(in Japanese), " Trans. of DBSJ, Vol.11 , No.3 , pp.9--14, 2013.
5. Takayasu Fushimi, Kazumi Saito, Tetsuo Ikeda, and Kazuhiro Kazama, "Community Extraction Method Based on Nodes' Function from Different Viewpoints (in Japanese), " Trans. of DBSJ, Vol.11 , No.3 , pp.27--32, 2013.
6. Akihiro Koide, Kazumi Saito, Kazuhiro Kazama, and Fujio Toriumi, "Characteristics Analysis of Multi Graphs Focused on Co-link Structure (in Japanese)," Trans. of DBSJ, Vol.11, No.2, pp. 13--18, 2012.
7. Kouzou Ohara, Kazumi Saito, Masahiro Kimura, and Hiroshi Motoda, "Burst Detection in a Sequence of Tweets based on Information Diffusion Model (in Japanese)," Trans. of DBSJ, Vol.11, No.2, pp. 25--30, 2012.
8. Masahiro Kimura, Kazumi Saito, Kouzou Ohara, and Hiroshi Motoda, "Learning to predict opinion share and detect anti-majority opinionists in social networks," Journal of Intelligent Information Systems (JIIS), (Online First: DOI 10.1007/s10844-012-0222-7), 2012.
9. Takayasu Fushimi, Kazumi Saito, and Kazuhiro Kazama, "Comparison of Community Extraction Method Based on Functionality Equivalence (in Japanese)," Trans. of IPSJ TOD, Vol.5, No.3 , pp.26--35, 2012.
10. Takayasu Fushimi, Kazumi Saito, and Kazuhiro Kazama, "Extracting Functional Communities in Networks (in Japanese)," Trans. of DBSJ, Vol.10, No.3, pp.13--18, 2012.
11. Yuya Yoshikawa, Kazumi Saito, Hiroshi Motoda, Kouzou Ohara, and Masahiro Kimura, "Estimating Method of Expected Influence Curve from Single Diffusion

- Sequence on Social Networks (in Japanese)," Trans. of IEICE, Vol.J94, No.11, pp.1899-1908, 2011.
12. Kazumi Saito, Masahiro Kimura, Kouzou Ohara, and Hiroshi Motoda, "Efficient Discovery of Influential Nodes for SIS Models in Social Networks," Knowledge and Information Systems, An International Journal (Online First: 10.1007/s10115-011-0396-2), 2011.
 13. Masahiro Kimura, Kazumi Saito, Kouzou Ohara, and Hiroshi Motoda, "Learning Information Diffusion Model in a Social Network for Predicting Influence of Nodes," Intelligent Data Analysis - An International Journal, Vol.15, pp.633--652, 2011.
 14. Nobuaki Mutoh, Kazumi Saito, Tetsuo Ikeda, Dai Nagata, and Takayasu Fushimi, "Speed-up of Greedy Method by Lazy Evaluation on Nonlinear Facility Location Problem - Case of Probabilistic Contribution by Multiple Facilities - (in Japanese)," Trans. of IPSJ TOM, Vol.4, No.1, pp.1-10, 2011.
 15. Hiroki Sato, Satoshi Shimada, Takayasu Fushimi, Tomohiro Fukuhara, Kazumi Saito, and Tetsuji Satoh, "QARank: An Analysis Method of User Contributions in a QA Community (in Japanese)," Trans. of Infocionomics Society, Vol.4, No.2, pp.5--13, 2010.
 16. Masahiro Kimura, Kazumi Saito, Ryohei Nakano, and Hiroshi Motoda, "Learning Information Diffusion Model for Extracting Influential Nodes in a Social Network (in Japanese)," Trans. of JSAI, Vol.25, No.1, pp.215--223, 2010.
 17. Kazumi Saito, Nobuaki Mutoh, Tetsuo Ikeda, Takuya Iriduki, Dai Nagata, Kanoko Ito, "Speed-up of Local Improvement Clustering Method by Incorporating Lazy Evaluation (in Japanese)," Trans. of IPSJ TOM, Vol.3, No.1, pp.62--72, 2010.
 18. Masahiro Kimura, Kazumi Saito, Ryohei Nakano, and Hiroshi Motoda, "Extracting Influential Nodes on a Social Network for Information Diffusion," Data Mining and Knowledge Discovery, Vol.20, No.1, pp.70--97, 2010.
 19. Kazuo Aoyama, Kazumi Saito, Takeshi Yamada, and Naonori Ueda, "Fast Similarity Search Methods Using Graph Index Structures (in Japanese)," Trans. of IEICE, Vol.J92D, No.9, pp.1543-1554, 2009.
 20. Manabu Kimura, Kazumi Saito, and Naonori Ueda, "Pivot Learning for Efficient Similarity Search (in Japanese)," Trans. of IPSJ, Vol.50, No.8, pp.1883-1891, 2009.
 21. Masahiro Kimura, Kazumi Saito, and Hiroshi Motoda, "Blocking Links to Minimize Contamination Spread in a Social Network," ACM Transactions on Knowledge Discovery from Data, Vol.3, No.2, Article 9, pp.1--23, 2009.

22. Kazumi Saito, Takeshi Yamada and Kazuhiro Kazama, "Extracting Communities from Complex Networks by the k-dense method," Trans. of IEICE, Vol.E91-A, No.11, pp.3304--3311, 2008.
23. Masahiro Kimura and Kazumi Saito, " Extracting Major Latent Topics in Document Streams Using PMM-PCA (in Japanese)," Trans. of JSIAM, Vol.18, No.3, pp.363--388, 2008.
24. Ken-ichi Fukui, Kazumi Saito, Masahiro Kimura, and Masayuki Numao, "Compilation to Visualize the Dynamic Clusters by the Adapted Self-Organizing Network," Trans. of JSAI, Vol.23, No.5, pp.319--329, 2008.
25. Yusuke Tanahashi, Ryohei Nakano and Kazumi Saito, "Bidirectional Clustering of Weights for Finding Succinct Multivariate Polynomials (in Japanese)," Trans. of IEICE, Vol.J91D, No.8, pp.2166--2176, 2008.
26. Tomoharu Iwata, Kazumi Saito and Takeshi Yamada, "Recommendation Method for Improving Customer Lifetime Value," IEEE Transactions on Knowledge and Data Engineering, Vol.20, No.9, pp.1254--1263, 2008.
27. Masahiro Kimura, Kazumi Saito and Ryohei Nakano, "Efficient Finding of Influential Nodes from a Social Network for Information Diffusion (in Japanese)," Trans. of IEICE, Vol.J91D, No.4, pp.1004--1015, 2008.
28. Akinori Fujino, Naonori Ueda, and Kazumi Saito, "Semi-supervised learning for a hybrid generative/discriminative classifier based on the maximum entropy principle," IEEE Transactions on Pattern Analysis and Machine Intelligence, Vol.30, No.3, pp.424--437, 2008.
29. Tomoharu Iwata and Kazumi Saito, "Visual Classifier Analysis Using Parametric Embedding (in Japanese)," Trans. of IPSJ, Vol.48, No.12, pp.4012--4022, 2007.
30. Akinori Fujino, Naonori Ueda, and Kazumi Saito, "Semi-supervised Learning of Multi-class Classifiers for Multi-component Data (in Japanese)," Trans. of IPSJ TOM,, Vol.48, No.SIG 15 (TOM 18), pp. 163--175, 2007.
31. Ken-ichi Fukui, Kazuhisa Sato, Junichiro Mizusaki, Kazumi Saito, and Masayuki Numao, "Visualization Method for Fracture Dynamics in Solid Oxide Fuel Cell (in Japanese)," Forum on Information Technology, Vol.6, pp.5--8, 2007.
32. Kazumi Saito and Ryohei Nakano, "Bidirectional Clustering of Weights for Neural Networks with Common Weights," Systems and Computers in Japan, Vol. 38, No.10, pp. 46--57, 2007.
33. Tomoharu Iwata, Kazumi Saito, and Naonori Ueda, Sean Stromsten, Thomas L. Griffiths, and Joshua B. Tenenbaum, "Parametric Embedding for Class Visualization," Neural Computation, Vol.19, No.9, pp.2536--2556, 2007.

34. Tomoharu Iwata, Kazumi Saito, and Takeshi Yamada " Recommendation Method for Extending Subscription Periods (in Japanese)," Trans. of IPSJ TOM, Vol.48, No.SIG 6 (TOM 17), pp. 65--74, 2007.
35. Ken-ichi Fukui, Kazumi Saito, Masahiro Kimura, and Masayuki Numao, "Evaluation of Vector Representable Topics that were Extracted Automatically. (in Japanese)," Trans. of IPSJ TOM, Vol. 48, No.SIG 6 (TOM17), pp.1--11, 2007.
36. Akinori Fujino, Naonori Ueda, and Kazumi Saito, "A hybrid generative / discriminative approach to text classification with additional information," Information Processing and Management, Vol.43, No.2, pp.379--392, 2007.
37. Kazuhiro Kazama, Shin-ya Sato, Kazumi Saito, and Takeshi Yamada, " Extraction of Overlapping Community Structures from Human Relationships (in Japanese)," Trans. of JSSST, Vol.24, No.1, pp.81--90, 2007
38. Akinori Fujino, Naonori Ueda, and Kazumi Saito, " Text Classification by Effectively Using Additional Information Based on Maximum Entropy Principle (in Japanese)," Trans. of IPSJ, Vol.47, No.10, pp.2929--2937, 2006.
39. Kazuhiro Kazama, Shin-ya Sato, Kazumi Saito, and Masahiro Kimura, "Analyzing SEO Communities Using Trackback Networks (Practical Analysis on Interesting Topics) (in Japanese)," Trans. of IPSJ, Vol.47, No.3, pp.840--849, 2006.
40. Akinori Fujino, Naonori Ueda, and Kazumi Saito, " A Hybrid Generative /Discriminative Classifier Design for Semi-supervised Learning (in Japanese)," Trans. of JSAI, Vol.21, No.3, pp.301--309, 2006.
41. Naonori Ueda and Kazumi Saito, "Parametric mixture models for multi-topic text," Systems and Computers in Japan, Vol.37, No.2, pp.56--66, 2006.
42. Tomoharu Iwata, Kazumi Saito, and Naonori Ueda, "Recommendation to Extend Subscription Periods (in Japanese)," Forum on Information Technology, Vol.5, pp.109--112, 2006.
43. Tomoharu Iwata, Kazumi Saito, and Naonori Ueda, "Class Structure Visualization by Parametric Embedding (in Japanese)," Trans. of IPSJ, Vol.46, No.9, pp.2337--2346, 2005.
44. Pablo A. Estevez, Cristian J. Figueroa, and Kazumi Saito, "Cross-entropy Embedding of High-dimensional Data Using the Neural Gas Model," Neural Networks, Vol.18 , pp.727--737, 2005.
45. Akinori Fujino, Naonori Ueda, and Kazumi Saito, " Semi-supervised learning based on a hybrid of generative and discriminative models (in Japanese)," Forum on Information Technology, Vol.4, pp.161--164, 2005.

46. Kazumi Saito and Ryohei Nakano, "Bidirectional clustering of weights in neural networks with common weights (in Japanese)," *Trans. of IEICE*, Vol.J88-D-II, No.4, pp.789--799, 2005.
47. Tomoharu Iwata and Kazumi Saito, "Visualization of Anomaly Using Mixture Model," *Journal of Intelligent Manufacturing*, Vol.16, No.6, pp.635--643, 2005.
48. Masahiro Kimura, Kazumi Saito, and Naonori Ueda, "Modeling share dynamics by extracting competition structure," *Physica D*, Vol.198 pp.51—73, 2004.
49. Masahiro Kimura, Kazumi Saito, and Naonori Ueda, "Modeling of growing networks with directional attachment and Communities," *Neural Networks*, Vol.17, pp.955--988, 2004.
50. Masahiro Kimura, Kazumi Saito, and Naonori Ueda, "Modeling network growth with directional attachment and Communities," *System and Computers in Japan* Vol.35, No.8, pp.1--11, 2004..
51. Naonori Ueda and Kazumi Saito, "Parametric Mixture Models for Multi-Topic Text (in Japanese)," *Trans. of IEICE*, Vol.J87-D-II, No.3, pp.872--883, 2004.
52. Kazumi Saito and Ryohei Nakano, "Squared Penalty Consistent with Linear Transformations of Variables (in Japanese)," *Trans. of IPSJ*, Vol.44, No.10, pp.2495--2502, 2003.
53. Naonori Ueda and Kazumi Saito, "Multi-topic Text Model for Topic-based Text Retrieval (in Japanese)," *Trans. of IPSJ*, Vol.44, No.14, pp.1--8, 2003.
54. Masahiro Kimura, Kazumi Saito, and Naonori Ueda, "Modeling Network Growth with Directional Attachment and Communities (in Japanese)," *Trans. of IEICE*, Vol.J86-D-II, No.10, pp.1468--1479, 2003.
55. Takeshi Yamada, Kazumi Saito, and Naonori Ueda, "Embedding Network Data based on Cross-Entropy Minimization. (in Japanese)," *Trans. of IPSJ*, Vol.44, No.9, pp.2401--2408, 2003.
56. Kazumi Saito, "Data mining using Neural Networks (in Japanese)," *Journal of JSIAM*, Vol.12, No.4, pp.45--53, 2002.
57. Kazumi Saito and Ryohei Nakano, "Extracting Regression Rules From Neural Networks," *Neural Networks*, Vol.15, pp.1279--1288, 2002.
58. Ryohei Nakano and Kazumi Saito, "Discovering Polynomials to Fit multivariate Data Having Numeric and Nominal Variables," *Progress in Discovery Science*, Vol.LNAI2281, pp.482--493, 2002.
59. Kazumi Saito and Ryohei Nakano, "Discovery of Relevant Weights by Minimizing Cross-Validation Error (in Japanese)," *Trans. of IEICE*, Vol.J84-D-II, No.1, pp.178--187, 2001.

60. Kazumi Saito and Ryohei Nakano, "Second-order learning algorithm with squared penalty term," *Neural Computation*, Vol.12, No.3, pp.709--729, 2000.
61. Kazumi Saito and Ryohei Nakano, "Learning of recurrent networks and estimation of Gaussian mixtures using second-order learning algorithm BPQ (in Japanese)," *Trans. of IEICE*, Vol.J81-D-II, No.3, pp.538--546, 1998.
62. Kazumi Saito and Ryohei Nakano, "A constructive learning algorithm for HME (in Japanese)," *Trans. of IEICE*, Vol.J81-D-II, No.2, pp.412--420, 1998.
63. Kazumi Saito and Ryohei Nakano, "Applying second-order learning algorithm BPQ to classification problems and evaluating it (in Japanese)," *Trans. of IEICE*, Vol.J81-D-II, No.2, pp.404--411, 1998.
64. Kazumi Saito and Ryohei Nakano, "A new regularization based on the MDL principle (in Japanese)," *Trans. of JSAI*, Vol.13, No.1, pp.123--130, 1998.
65. Kazumi Saito and Ryohei Nakano, "Second-order learning algorithm with squared penalty term (in Japanese)," *Trans. of IPSJ*, Vol.38, No.11, pp.2149--2156, pp.1708--1716, 1997.
66. Kazumi Saito and Ryohei Nakano, "Partial BFGS update and calculating optimal step-length for three-layer neural networks," *Neural Computation*, Vol.9, No.1, pp.123--141, 1997.
67. Kazumi Saito and Ryohei Nakano, "A connectionist approach to numeric law discovery (in Japanese)," *Trans. of IPSJ*, Vol.37, No.9, pp.1708--1716, 1996.
68. Kazumi Saito and Ryohei Nakano, "Adaptive concept learning algorithm: RF4 (in Japanese)," *Trans. of IPSJ*, Vol.36, No.4, pp.832--839, 1995.
69. Kazumi Saito and Ryohei Nakano, "Task sequencing based on Bayesian estimation (in Japanese)," *Trans. of IPSJ*, Vol.36, No.3, pp.572--578, 1995.
70. Kazumi Saito and Ryohei Nakano, "Rule extraction from noisy facts: RF3 algorithm (in Japanese)," *Trans. of IPSJ*, Vol.33, No.5, pp.636--644, 1992.
71. Kazumi Saito and Ryohei Nakano, "Rule extraction from facts: RF2 algorithm (in Japanese)," *Trans. of IPSJ*, Vol.33, No.5, pp.628--635, 1992.
72. Ryohei Nakano and Kazumi Saito, "Reduction of relational calculus to optimal algebraic expression (in Japanese)," *Trans. of IPSJ*, Vol.29, No.4, pp.397--406, 1988.
73. Ryohei Nakano and Kazumi Saito, "Reduction of aggregate functions in relational calculus alpha to optimal algebraic expressions (in Japanese)," *Trans. of IPSJ*, Vol.28, No.12, pp.1246--1254, 1987.

Refereed International Conference Papers

1. Kazumi Saito, Masahiro Kimura, Kouzou Ohara and Hiroshi Motoda, "Which Targets to Contact First to Maximize Influence over Social Network," Proc. of the 2013 International Conference on Social Computing, Behavioral Modeling, and Prediction (SBP2013), pp. 359--367, 2013.
2. Kazumi Saito, Kouzou Ohara, Masahiro Kimura and Hiroshi Motoda, "Burst Detection in a Sequence of Tweets based on Information Diffusion Model, " Proc. of the Fifteenth Internatioanal Conference on Discovery Science(DS2012), pp.239--253, 2012.
3. Masahiro Kimura, Kazumi Saito, Kouzou Ohara and Hiroshi Motoda, "Opinion Formation by Voter Model with Temporal Decay Dynamics, " Proc. of the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases(ECML-PKDD2012), pp.565--580, 2012.
4. Takayasu Fushimi, Kazumi Saito and Kazuhiro Kazama "Extracting Communities in Networks based on Functional Properties of Nodes, " Proc. of the 2012 Pacific Rim Knowledge Acquisition Workshop(PKAW2012), pp.328--334, 2012.
5. Shoko Kato, Akihiro Koide, Takayasu Fushimi, Kazumi Saito and Hiroshi Motoda, "Network Analysis of Three Twitter Functions: Favorite, Follow and Mention, " Proc. of the 2012 Pacific Rim Knowledge Acquisition Workshop(PKAW2012), pp.298--312, 2012. (STUDENT SCHOLARSHIPS)
6. Kazumi Saito, Masahiro Kimura, Kouzou Ohara and Hiroshi Motoda, "Graph Embedding on Spheres and its Application to Visualization of Information Diffusion Data," Proc. of the International Workshop on Mining Social Network Dynamics(MSND2012), pp. 1137--1144, 2012.
7. Kouzou Ohara, Kazumi Saito, Masahiro Kimura, and Hiroshi Motoda, "Effect of In/Out-Degree Correlation on Influence Degree of Two Contrasting Information Diffusion Models," Proc. of the 2012 International Conference on Social Computing, Behavioral Modeling, and Prediction (SBP2012), pp. 131--138, 2012.
8. Takayasu Fushimi, Yamato, Kubota, Kazumi Saito, Masahiro Kimura, Hiroshi Motoda, and Kouzou Ohara, "Speeding up Bipartite Graph Visualization Method," Proc. of the 24th Australasian Joint Conference on Artificial Intelligence (AI2011).
9. Akihiro Koide, Kazumi Saito, Masahiro Kimura, Kouzou Ohara, and Hiroshi Motoda, "Estimating Diffusion Probability Changes for AsIC-SIS Model from Information Diffusion Results," Proc. of the third Asian Conference on Machine Learning (ACML2011) , pp.297--313, 2011.

10. Yuki Yamagishi, Kazumi Saito, Masahiro Kimura, Kouzou Ohara, and Hiroshi Motoda, "Learning Attribute-weighted Voter Model over Social Networks," Proc. of the third Asian Conference on Machine Learning (ACML2011) , pp.263--280, 2011.
11. Masahiro Kimura, Kazumi Saito, Kouzou Ohara, and Hiroshi Motoda, "Detecting Anti-majority Opinionists Using Value-weighted Mixture Voter Model," Proc. of the 14th International Conference on Discovery Science (DS2011) , pp.150--164, 2011.
12. Kazuo Aoyama, Kazumi Saito, Hiroshi Sawada, and Naonori Ueda. "Fast Approximate Similarity Search Based on Degree-Reduced Neighborhood Graphs," Proc. of the 17th International Conference on Knowledge Discovery and Data Mining (KDD2011), pp.1055--196, 2011.
13. Kouzou Ohara, Kazumi Saito, Masahiro Kimura, and Hiroshi Motoda, "Efficient Detection of Hot Span in Information Diffusion from Observation," Proc. of the IJCAI-2011 Workshop on Link Analysis in Heterogeneous Information Networks (IJCAI-HINA2011), arXiv:1110.2659v1, 2011.
14. Kazumi Saito, Kouzou Ohara, Yuki Yamagishi, Masahiro Kimura, and Hiroshi Motoda, "Learning Diffusion Probability based on Node Attributes in Social Networks," Proc. of the 19th International Symposium on Methodologies for Intelligent Systems (ISMIS2011), pp.153--162, 2011.
15. Kazumi Saito, Masahiro Kimura, Kouzou Ohara, and Hiroshi Motoda, "Detecting Changes in Opinion Value Distribution for Voter Model," Proc. of the 2011 International Conference on Social Computing, Behavioral Modeling, and Prediction (SBP2011), pp. 89--96, 2011.
16. Kazumi Saito, Masahiro Kimura, Kouzou Ohara, and Hiroshi Motoda, "Generative Models of Information Diffusion with Asynchronous Time-delay," The second Asian Conference on Machine Learning (ACML2010), pp.203--218, 2010.
17. Kazumi Saito, Masahiro Kimura, Kouzou Ohara, and Hiroshi Motoda, "Discovery of Super-Mediators of Information Diffusion in Social Networks," Proc. of the 13th International Conference on Discovery Science (DS2010), LNAI6332, pp.144--158, 2010.
18. Kazumi Saito, Masahiro Kimura, Kouzou Ohara, and Hiroshi Motoda, "Selecting Information Diffusion Models over Social Networks for Behavioral Analysis," Proc. of the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD 2010), pp.180-195, 2010.
19. Yusuke Tanahashi, Ryohei Nakano and Kazumi Saito, "Nominally Conditioned Linear Regression," Proc. of the International Conference on Artificial Neural Networks (ICANN2010) LNCS 6354, pp 290-293, 2010.

20. Yuya Yoshikawa, Kazumi Saito, Hiroshi Motoda, Kouzou Ohara, and Masahiro Kimura, "Acquiring Expected Influence Curve from Single Diffusion Sequence," Proc. of the 2010 Pacific Rim Knowledge Acquisition Workshop (PKAW2010), pp.273--287, 2010.
21. Takayasu Fushimi, Kazumi Saito, Masahiro Kimura, Hiroshi Motoda, and Kouzou Ohara, "Finding Relation between PageRank and Voter Model," Proc. of the 2010 Pacific Rim Knowledge Acquisition Workshop (PKAW2010), pp.209--223, 2010.
22. Kazumi Saito, Masahiro Kimura, Kouzou Ohara, and Hiroshi Motoda, "Efficient Estimation of Cumulative Influence for Multiple Activation Information Diffusion Model with Continuous Time Delay," Proc. of the Eleventh Pacific Rim International Conference on Artificial Intelligence (PRICAI2010), pp.244--255, 2010.
23. Masahiro Kimura, Kazumi Saito, Kouzou Ohara, and Hiroshi Motoda, "Learning to Predict Opinion Share in Social Networks," Proc. of the Twenty-Fourth Conference on Artificial Intelligence (AAAI2010), pp.1364--1370, 2010.
24. Kazumi Saito, Masahiro Kimura, Kouzou Ohara, and Hiroshi Motoda, "Behavioral Analyses of Information Diffusion Models by Observed Data of Social Network," Proc. of the 2010 International Conference on Social Computing, Behavioral Modeling, and Prediction (SBP2010), pp.149--158, 2010.
25. Kazuo Aoyama, Shinji Watanabe, Hiroshi Sawada, Yasuhiro Minami, Naonori Ueda, and Kazumi Saito, "Fast Similarity Search on a Large Speech Data Set with Neighborhood Graph Indexing," Proc. of the 35th International Conference on Acoustics, Speech, and Signal Processing (ICASSP2010), pp.5358--5361, 2010.
26. Kazumi Saito, Masahiro Kimura, Kouzou Ohara, and Hiroshi Motoda, "Learning Continuous-Time Information Diffusion Model for Social Behavioral Data Analysis," Proc. of the First Asian Conference on Machine Learning (ACML2009), pp.322--337, 2009.
27. Kazumi Saito, Masahiro Kimura and Hiroshi Motoda, "Discovering Influential Nodes for SIS models in Social Networks," Proc. of the 12th International Conference on Discovery Science (DS2009), pp.302--316, 2009.
28. Masahiro Kimura, Kazumi Saito and Hiroshi Motoda, "Efficient Estimation of Influence Functions for SIS Model on Social Networks," Proc. of the Twenty-First International Joint Conference on Artificial Intelligence (IJCAI2009), pp.2046--2051, 2009.
29. Kazuo Aoyama, Kazumi Saito, Takeshi Yamada, and Naonori Ueda. "Fast Similarity Search in Small-World Networks," Proc. of the First International Workshop on Complex Networks (CompleNet2009), pp.185--196, 2009.

30. Ken-ichi Fukui, Kazuhisa Sato, Junichiro Mizusaki, Masahiro Kimura, and Masayuki Numao, "Growth Analysis of Neighbor Network for Evaluation of Damage Progress," Proc. of the 13th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD2009), pp.933--940, 2009.
31. Masahiro Kimura, Kazumi Saito, Ryohei Nakano and Hiroshi Motoda, "Finding Influential Nodes in a Social Network from Information Diffusion Data," Proc. of the Second International Workshop on Social Computing, Behavioral Modeling, and Prediction (SBP2009), pp.138--145, 2009.
32. Takayasu Fushimi, Takashi Kawazoe, Kazumi Saito, Masahiro Kimura and Hiroshi Motoda, "What Does an Information Diffusion Model Tell about Social Network Structure?," Proc. of the 2008 Pacific Rim Knowledge Acquisition Workshop (PKAW2008), pp.288--299, 2008.
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