耐災害 ICT 研究活動（2016 年）

<**論文**>
国際学会、論文（査読あり）

1. Toshikazu Sakano, Satoshi Kotabe, Tetsuro Komukai, Tomoaki Kumagai, Yoshitaka Shimizu, Atsushi Takahara, Thuan Ngo, Zubair Md. Fadlullah, Hiroki Nishiyama, and Nei Kato, "Bringing Movable and Deployable Networks to Disaster Areas: Development and Field Test of MDRU," IEEE Network Magazine, vol. 30, no. 1, pp. 86-91, Jan.-Feb. 2016.

2. Zubair Md. Fadlullah, Daisuke Takaishi, Hiroki Nishiyama, Nei Kato, and Ryu Miura, "A Dynamic Trajectory Control Algorithm for Improving the Communication Throughput and Delay in UAV-aided Networks," IEEE Network, vol. 30, no. 1, pp. 100-105, Jan. 2016.

3. Jiajia Liu, Hiroki Nishiyama, Nei Kato, and Jun Guo, "On the Outage Probability of Device-to-Device Communication Enabled Multi-Channel Cellular Networks: A RSS Threshold-Based Perspective," IEEE Journal on Selected Areas in Communications, vol. 34, no. 1, pp. 163-175, Jan. 2016.

4. Katsuya Suto, Tiago Gama Rodrigues, Hiroki Nishiyama, Nei Kato, Hirotaka Ujikawa, and Ken-Ichi Suzuki, "QoE-Guaranteed and Sustainable User Position Guidance for Post-Disaster Cloud Radio Access Network," IEEE Global Communications Conference (GLOBECOM 2016), Washington, DC, USA, Dec. 2016.

5. Masanori Horiuchi, Hiroki Nishiyama, Nei Kato, Fumie Ono, and Ryu Miura, "Throughput Maximization for Long-Distance Real-Time Data Transmission over Multiple UAVs," IEEE International Conference on Communications (ICC 2016), Kuala Lumpur, Malaysia, May 2016.

6. Thuan Ngo, Hiroki Nishiyama, Nei Kato, Satoshi Kotabe, and Hiroshi Tohjo, "GHAR: Graph-based Hybrid Adaptive Routing for Cognitive Radio Based Disaster Response Networks," IEEE International Conference on Communications (ICC 2016), Kuala Lumpur, Malaysia, May 2016.

7. Hideki Kuribayashi, Katsuya Suto, Hiroki Nishiyama, Nei Kato, Kimihiro Mizutani, Takeru Inoue, and Osamu Akashi, "A Mobility-Based Mode Selection Technique for Fair Spatial Dissemination of Data in Multi-Channel Device-to-Device Communication," IEEE International Conference on Communications (ICC 2016), Kuala Lumpur, Malaysia, May 2016.

8. Thuan Ngo, Hiroki Nishiyama, Nei Kato, Satoshi Kotabe, and Hiroshi Tohjo, "A Novel Graph-based Topology Control Cooperative Algorithm for Maximizing Throughput of Disaster Recovery Networks," 2016 IEEE 83rd Vehicular Technology Conference (VTC2016-Spring), Nanjing, China, May 2016.

9. T. Koizumi, T. Owada, M. Motoyoshi, S. Kameda, and N. Suematsu, "A 0.4-ns Power Switching Ku-band Amplifier for Direct RF Undersampling Receiver," 2016 Global Symposium on Millimeter Waves (GSMM 2016), June 2016.

10. M. Motoyoshi, T. Maehata, S. Kameda, N. Suematsu High SNR CMOS S/H IC for Multi-Carrier Direct RF Under Sampling Receiver, Radio-Frequency Integration Technology (RFIT 2016), August 2016.

11. Y.Wang, K. Kasai, M. Yoshida, and M. Nakazawa, "320 Gbit/s, 256 QAM LD-based coherent transmission over 160 km with an injection-locked homodyne detectoin technique," OECC 2016, ThB3-3, July (2016).

12. Ryo Takahashi, Naoya Inoue, Yasutaka Kuriya, Sosuke Kobayashi and Kentaro Inui. Explaining Potential Risks in Traffic Scenes by Combining Logical Inference and Physics Simulation. International Journal of Machine Learning and Computing (IJMLC), Vol. 6, No. 5, pp. 248-255, October 2016. (DOI: 10.18178/ijmlc.2016.6.5.606) paper slide

13. 稲田和明, 松林優一郎, 乾健太郎. 日本語文書内で表現される事象間の時間的な順序関係の推定. 情報処理学会論文誌, Vol.56, No.10, pp.2054-2071, October 2015.

14. Sho Takase, Naoaki Okazaki, Kentaro Inui. Modeling semantic compositionality of relational patterns. Engineering Applications of Artificial Intelligence, vol. 50, pp.256-264, April 2016.

15. Naoya Inoue, Yuichiro Matsubayashi, Masayuki Ono, Naoaki Okazaki and Kentaro Inui. Modeling Context-sensitive Selectional Preference with Distributed Representations. In Proceedings of the 26th International Conference on Computational Linguistics (COLING 2016), pp. 2829-2838, December 2016.

16. Kento Watanabe, Yuichiroh Matsubayashi, Naho Orita, Naoaki Okazaki, Kentaro Inui, Satoru Fukayama, Tomoyasu Nakano, Jordan B. L. Smith and Masataka Goto. Modeling Discourse Segments in Lyrics Using Repeated Patterns. In Proceedings of the 26th International Conference on Computational Linguistics (COLING 2016), pp. 1959-1969, December 2016. paper

17. Yusuke Hara, Koji Matsuda, Masao Kuwahara, Naoaki Okazaki and Kentaro Inui. Traffic State Estimation and Cause and Effect Understanding by Probe Data and Social Media Data. In Proceedings of the 21st International Conference of Hong Kong Society for Transportation Studies, Smart Transportation, December 2016. to appear

18. Sho Takase, Jun Suzuki, Naoaki Okazaki, Tsutomu Hirao and Masaaki Nagata. Neural Headline Generation on Abstractive Meaning Representation. In Proceedings of the conference on Empirical Methods in Natural Language Processing (EMNLP 2016), pp. 1054-1059, November 2016.

19. Takuya Yashima, Naoaki Okazaki, Kentaro Inui, Kota Yamaguchi and Takayuki Okatani. Learning to Describe E-Commerce Images from Noisy Online Data. In Proceedings of the 13th Asian Conference on Computer Vision (ACCV 2016), 16 pages, November 2016.

20. Masayasu Muraoka, Sumit Maharjan, Masaki Saito, Kota Yamaguchi, Naoaki Okazaki, Takayuki Okatani and Kentaro Inui. Recognizing Open-vocabulary Relations between Objects in Images. In Proceedings of the 30th Pacific Asia Conference on Language, Information and Computation (PACLIC 30), pp. 339-248, October 2016.

21. Shuangshuang Zhou, Koji Matsuda, Ran Tian, Naoaki Okazaki and Kentaro Inui. A Pipeline Japanese Entity Linking System with

Embedding Features. In Proceedings of the 30th Pacific Asia Conference on Language, Information and Computation (PACLIC 30), pp. 267-276, October 2016.

22. Mei Uemura, Naho Orita, Naoaki Okazaki and Kentaro Inui. Toward the automatic extraction of knowledge of usable goods. In Proceedings of the 30th Pacific Asia Conference on Language, Information and Computation (PACLIC 30), pp. 277-285, October 2016.

23. Masatoshi Suzuki, Koji Matsuda, Satoshi Sekine, Naoaki Okazaki and Kentaro Inui. Neural Joint Learning for Classifying Wikipedia Articles into Fine-grained Named Entity Types. In Proceedings of the 30th Pacific Asia Conference on Language, Information and Computation (PACLIC 30), pp. 535-544, October 2016.

24. Masatoshi Suzuki, Koji Matuda, Satoshi Sekine, Naoaki Okazaki, and Kentaro Inui. Multi-label Classification of Wikipedia Articles into Fine-grained Named Entity Types. In Proceedings of the IEEE/WIC/ACM International Conference on Web Intelligence, pp. 483-486, October 2016.

25. Akira Sasaki, Junta Mizuno, Naoaki Okazaki and Kentaro Inui. Stance Classification by Recognizing Related Events about Targets. In Proceedings of the IEEE/WIC/ACM International Conference on Web Intelligence, pp. 582-587, October 2016.

26. Sho Yokoi, Hiroshi Kajino and Hisashi Kashima. Link Prediction by Incidence Matrix Factorization. In Proceedings of the 22nd European Conference on Artificial Intelligence (ECAI 2016), pp. 1730-1731, August 2016.

27. Sho Takase, Naoaki Okazaki and Kentaro Inui. Composing Distributed Representations of Relational Patterns. In Proceedings of the 54th Annual Meeting of the Association for Computational Linguistics (ACL 2016), pp. 2276-2286, August 2016.

28. Ran Tian, Naoaki Okazaki and Kentaro Inui. Learning Semantically and Additively Compositional Distributional Representations. In Proceedings of the 54th Annual Meeting of the Association for Computational Linguistics (ACL 2016), pp. 1277--1287, August 2016.

29. Davaajav Jargalsaikhan, Naoaki Okazaki, Koji Matsuda and Kentaro Inui. Building a Corpus for Japanese Wikification with Fine-Grained Entity Classes. In Proceedings of the ACL-2016 Student Research Workshop, pp. 138-144, August 2016.

30. Yuki Igarashi, Hiroya Komatsu, Sosuke Kobayashi, Naoaki Okazaki and Kentaro Inui. Tohoku at SemEval-2016 Task 6: Feature-based Model versus Convolutional Neural Network for Stance Detection. In Proceedings of the 10th International Workshop on Semantic Evaluation (SemEval), pp.413-419, June 2016.

31. Sonse Shimaoka, Pontus Stenetorp, Kentaro Inui and Sebastian Riedel. An Attentive Neural Architecture for Fine-grained Entity Type Classification. In Proceedings of the 5th Workshop on Automated Knowledge Base Construction, June 2016. to appear

32. Sosuke Kobayashi, Ran Tian, Naoaki Okazaki and Kentaro Inui. Dynamic Entity Representation with Max-pooling Improves Machine Reading. In Proceedings of the North American Chapter of the Association for Computational Linguistics and Human Language Technologies (NAACL-HLT 2016), pp.850-855, June 2016.

33. Tomoya Mizumoto and Yuji Matsumoto. Discriminative Reranking for Grammatical Error Correction with Statistical Machine Translation. In Proceedings of the 2016 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL-HLT2016), pp. 1133-1138, June 2016.

34. Kensuke Mitsuzawa, Maito Tauchi, Mathieu Domoulin, Masanori Nakashima and Tomoya Mizumoto. FKC Corpus: a Japanese Corpus from New Opinion Survey Service. In proceedings of the Novel Incentives for Collecting Data and Annotation from People: types, implementation, tasking requirements, workflow and results, pp. 11-18, May 2016.

35. Corentin Dumont, Ran Tian and Kentaro Inui. Question-Answering with Logic Specific to Video Games. In Proceedings of the 10th International Conference on the Language Resources and Evaluation Conference (LREC-2016), May 2016. to appear

36. A. Satou, K. Sugawara, G. Tamamushi, T. Watanabe, A. Dobroiu, T. Suemitsu, H. Fukidome, M. Suemitsu, V. Ryzhii, K. Iwatsuki, S. Kuwano, J. Kani, J. Terada, and T. Otsuji, "Sub-THz Photonic Double-Mixing Conversion Using Transistors,"AWAD 2016: Asia-Pacific Workshop on Fundamentals and Applications of Advanced Semiconductor Devices, Hakodake, Hokkaido, Japan, 5 July 2016.

37. F. Kasuya, H. Taniguchi, T. Watanabe, T. Suemitsu, T. Otsuji, Y. Takida, H. Ito, H. Minamide, T. Ishibashi, M. Shimizu, and A. Satou, "Nanostructured Asymmetric Dual-Grating-Gate Plasmonic THz Detectors: Enhancement of External Coupling Efficiency by Array Configuration and Silicon-Lens Integration," IEEE NANO 2016: 16th International Conference on Nanotechnology, TuPo1.16, Aug. 23, 2016.

38. F. Kasuya, H. Taniguchi, T. Watanabe, T. Suemitsu, T. Otsuji, T. Ishibashi, M. Shimizu, Y. Takida, H. Minamide, and A. Satou, " Array configuration and silicon-lens integration of asymmetric dual-grating-gate plasmonic THz detectors," IRMMW-THz 2016: 41st International Conference on Infrared, Millimeter and Terahertz Waves, Copenhagen, Denmark, T4C.6, Sep. 27, 2016.

39. F. Kasuya, H. Taniguchi, T. Watanabe, T. Suemitsu, T. Otsuji, T. Ishibashi, M. Shimizu, Y. Takida, H. Ito, H. Minamide, A. Satou, " Array configuration and silicon-lens integration of asymmetric dual-grating-gate HEMT for improvement of light coupling efficiency," RJUSE: 5th Russia-Japan-USA-Europe Symposium on Fundamental & Applied Problems of Terahertz Devices & Technologies Tech. Dig., pp. 182-185, Sendai, Japan, Nov. 3, 2016.

40. A. Satou, K. Sugawara, G. Tamamushi, T. Watanabe, A. Dobroiu, T. Suemitsu, H. Fukidome, M. Suemitsu, V. Ryzhii, K. Iwatsuki, S. Kuwano, J. Kani, J. Terada, and T. Otsuji, "InP HEMT and graphene FET for optical to sub-THz carrier frequency conversion," RJUSE: 5th Russia-Japan-USA-Europe Symposium on Fundamental & Applied Problems of Terahertz Devices & Technologies Tech. Dig., pp. 182-185, Sendai, Japan, Nov 1. 2016.

41. Kazuto Sasai, Yukio-Pegio Gunji, Tetsuo Kinoshita, "Extremely Local

Interaction in the Market Model," Proc. of The Twenty-First International Symposium on Artificial Life and Robotics 2016 (AROB 21st 2016), pp.625-630, Jan. 2016.

42. Kazuto Sasai, Yusuke Tanimura, Hideyuki Takahashi, Gen Kitagata, Tetsuo Kinoshita, "An Agent-based Data Analytics Support Tool for Network Management Intelligence," International Journal of Energy, Information and Communications, Vol.8, Issue 1, pp.51-64, 2017.

43. Kazuto Sasai, Hideyuki Takahashi, Gen Kitagata, Tetsuo Kinoshita, "Prototypical Design and Implementation of an Intelligent Network Data Analysis Tool Collaborating with Active Information Resource," Proc. of the 29th International Conference on Industrial Engineering and Other Applications of Applied Intelligent Systems (IEA/AIE 2016), pp.1007-1018, Aug. 2016.