
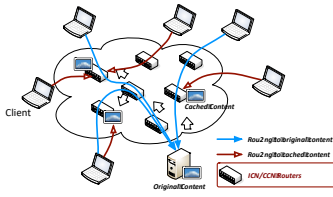
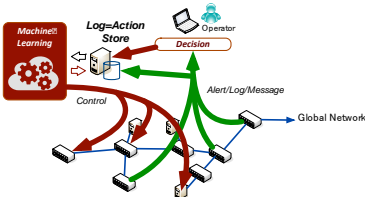


Requests for Collaboration

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Research Interests	
<ul style="list-style-type: none"> ● Networking Architecture for Future Internet ● Data Analytics for Networking Researches ● Automation of Network Operations and Management ● Software Defined Infrastructure (Virtualization and Softwarization) 	
Creative Achievements in The Application of New and Existing Science and Technology	
<p>(1) Architecture for Future Internet is being much attracted to explore a new (and clean-slate) design of network for addressing various issues in the Internet. We especially focus on ICN (Information Centric Networking) which enables a true content-oriented communication (using a <i>name</i> of content instead of IP address). We design a whole architecture for supporting mobility-controlled routers in ICN, as well as ICN-based services for IoT/M2M applications.</p> <p>(2) Data analytics for networking researches include identification of application, detection of network anomalies, and prediction of behavior in communication infrastructure, by monitoring network traffic. This research is directed towards automation of operations and management of ICT infrastructure by using Artificial Intelligence (AI) technologies and networking programmability.</p>	 
Technology (Product, Process, Device, Service etc.) That I Want to Request for Collaboration	
<ul style="list-style-type: none"> ● General topics on networking: architecture design, traffic/congestion control, router design ● Data analytics: network monitoring, statistical modeling, machine learning, deep learning ● Software Defined Infrastructure: SDN, SDI, virtualization, networking programmability 	
A List of 5 Key Publications	
<ul style="list-style-type: none"> • Atsushi Ooka, Shingo Ata, Kazunari Inoue, Masayuki Murata, “Scalable Cache Component in ICN Adaptable to Various Network Traffic Access Patterns,” <i>IEICE Transactions on Communications</i>, E101-B, no. 1, pp. 35-48, January 2018 • Naoki Yoshida, Shingo Ata, Hiroki Nakayama, Tsunemasa Hayashi, “Automation of Network Operations by Cooperation between Anomaly Detections and Operation Logs,” <i>Proc. IEEE GLOBECOM 2017</i>, DOI: 10.1109/GLOCOM.2017.8254482, December 2017. • Shingo Ata, Toshio Tonouchi, “Management of Information, Communications, and Networking: from the Past to the Future,” <i>IEICE Transactions on Communications</i>, E100-B (9), pp. 1614-1622, September 2017 (invited). • Shingo Ata, Dijiang Huang, Xuan Liu, Aikra Wada, Tianyi Xing, Parikshit Juluri, Chun-Jen Chung, Yasuhiro Sato, Deep Medhi, “SeRViTR: A Framework, Implementation, and a Testbed for a Trustworthy Future Internet,” <i>Computer Networks</i>, vol. 63, pp. 128-146, January, 2014. • Sou Koyano, Shingo Ata, Hisashi Iwamoto, Yuji Yano, Yasuto Kuroda, Kazunari Inoue, Ikuo Oka, “A study on micro level traffic prediction for energy-aware routers,” <i>ACM SIGOPS Operating Systems Review</i>, vol. 47 no. 3, pp. 26-33, December, 2013. 	