


Requests for Collaboration

<p>Name: Hayato Ishibashi, Ph.D. Current position: Professor E-mail address: h-ishibashi@osaka-cu.ac.jp</p>	
<p>Research Interests</p> <ul style="list-style-type: none">● Autonomous network operations and management● Software defined network● Peer-to-peer network systems	
<p>Creative Achievements in The Application of New and Existing Science and Technology</p> <p>(1) User-aware packet level access control: We have developed a user authentication and access control system for connecting PCs to a network. Though an authentication system for joining a network is popular these days, we have clarified the essential condition for avoiding address spoofing in the early years when no such systems exist in the market. The system is also aware of the relations between the user and L2/L3 network addresses, it can realize per-packet access control based on the user's authority.</p> <p>(2) SDN-based network management systems: We have developed/are developing some trial systems for network management based on SDN (OpenFlow) technologies. One is an SSH attacker observing system like honeypot farms. The system detects attack attempts against real SSH servers and redirects the connections to SSH honeypots. Another system enables a large number of VLANs with flexible access control. Users can join multiple VLANs that have different security policies at the same time without re-authentication.</p>	
<p>Technology (Product, Process, Device, Service etc.) That I Want to Request for Collaboration</p> <ul style="list-style-type: none">● SDN-based network equipment (OpenFlow or other SDN devices)● Log mining system especially based on deep learning technology	
<p>A List of 5 Key Publications</p> <ul style="list-style-type: none">• Seung-eon Oh, Kota Abe, <u>Hayato Ishibashi</u>, and Toshio Matsuura: A Proposal and Evaluation of a Method of Constructing Routing Tables with Configurable Max Path Length or Routing Table Size, The IEICE Transactions on Communications (Japanese Edition), Vol. J97-B, No. 10, pp. 849-860 (2014). (in Japanese)• Seung-eon Oh, Kota Abe, <u>Hayato Ishibashi</u>, and Toshio Matsuura: A Method for Reducing Maintenance Cost of Routing Table in Chord# and Its Evaluation, IPSJ Journal, Vol. 53, No. 12, pp. 2752-2761 (2012). (in Japanese)• Kota Abe, Toshiyuki Abe, Tatsuya Ueda, <u>Hayato Ishibashi</u> and Toshio Matsuura: Aggregation Skip Graph: A Skip Graph Extension for Efficient Aggregation Query over P2P Networks, International Journal on Advances in Internet Technology, Vol. 4, No. 3 and 4, pp. 103-110, IARIA (2012).• Masanori Shikano, Kota Abe, Tatsuya Ueda, <u>Hayato Ishibashi</u> and Toshio Matsuura: Constructing a Stable Virtual Peer from Multiple Unstable Peers for Fault-tolerant P2P Systems, International Journal on Advances in Networks and Services, Vol. 3, No. 1 and 2, pp. 199-208, IARIA (2010).• <u>Hayato Ishibashi</u>, Nariyoshi Yamai, Kota Abe and Toshio Matsuura: A protection method against unauthorized access and address spoofing for open network access systems, 2001 IEEE Pacific Rim Conference on Communications, Computers and Signal Processing (IEEE Cat. No.01CH37233), Victoria, BC, Canada, 2001, pp. 10-13 vol.1 (2001).	