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**Wednesday**  
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Room: ECEC202, NJIT  
Time: 1:15 PM  
Refreshment: 1:00 PM

Signal Processing Chapter of IEEE North Jersey Section  
Department of Electrical and Computer Engineering at NJIT

## **Packet Classification Algorithms: From Theory to Practice**

### **Professor Jun Li**

EECS at School of Information Science and Technology, Tsinghua University, China

#### **Summary**

During the past decade, network packet classification problem has been widely studied to accelerate network applications such as access control, traffic engineering, and intrusion detection. Although a great number of packet classification algorithms have been proposed in the recent years, unfortunately most of them stagnate in mathematical analysis or software simulation stages and few of them have been implemented in commercial products as a generic solution.

In his talk, Dr. Jun Li will give an introduction of network packet classification research and an overview of related classic algorithms, and introduce recent advancement of his research lab to fill the gap between theory and practice, including the design consideration and performance evaluation of a high performance packet classification algorithm, HyperSplit, which achieves superior performance in terms of classification speed, memory usage and preprocessing time.

#### **Biography**



**Dr. Jun Li** is currently a professor of EECS at School of Information Science and Technology, Tsinghua University, China. Graduated from Tsinghua University with BS and MS of Automation in 1985 and 1988 respectively, he got his PhD degree in CS from NJIT in 1997 and his dissertation work was mostly carried out in EE of NJIT under late Prof. Walter Kosonocky and Prof. Edwin Hou.

Dr. Jun Li worked at Automation Department of Tsinghua University as Teaching Assistant and Lecturer from 1986 to 1992. He worked at EXAR and TeraLogic from 1997 to 1999 as Senior Software Engineer, before he co-funded ServGate Technologies, a network security appliance company, in 1999. Dr. LI rejoined Tsinghua as a faculty in 2003, and currently he is the Director of Research Institute of Information Technology (RIIT), and Executive Vice Dean of School of Information Science and Technology (SIST), Tsinghua University. He is also a Deputy Director of the Tsinghua National Lab for Information Science and Technology.

Dr. Li's research interest is in network security, pattern recognition, and image processing.

For more information, please refer to <http://security.riit.tsinghua.edu.cn/wiki>

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