

ITNAC 2018 Conference

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In November, COINS supported me to attend the International Telecommunication Networks And Applications Conference (ITNAC). The Conference was held at University of New South Wales (UNSW) in Sydney from the 21st to the 23rd of November.

November 20th at 23:00, I arrived in Sydney after 24 hours flight. Next day after dealing with jet lag, I attended the Conference opening and registration session. Hopefully, I had a chance in the session to meet Professor Vijay Sivaraman, who works specifically in SDN and traffic management. We had a good conversation and then I met his research group members also.

On Wednesday, November 21st, I attended the SDN session that three papers presented. The first one talked about fault tolerance via Petri-Nets. Then, an interesting paper presented about active probing in ONOS SDN controller. The third paper proposed a method to enable cognition in SDN via a multi-agent controller. After that the first Keynote started and it was about security research in 5G slicing. It was presented by Malcolm Shore, Cybersecurity Officer in Huawei Enterprise. After a break, the second keynote was started by Professor Matthew Roughan from the University of Adelaide. He talked about the cybersecurity challenges for 2020. I had the chance to have a nice and useful conversation with him also. He is a mathematician and he had some good suggestion for my project. In the evening the Huawei workshop took place. The main topic of the session was the 5G telecommunication technology and challenges in the physical layer.

On Thursday, November 22nd, Dr. Huadon Ma from the Beijing University of Posts and Telecommunications (BUPT) had a talk about using AI in IoT context. He also presented some interesting sample of AI in IoT in the real world in China. Another interesting part of his presentation was the statistics and estimation of IoT usage in close future. After a short break, the second keynote was started by a Juniper consulting engineer. The

talk was about security in automated multi-cloud. Afterward, they started an interesting workshop and presented some demo of Juniper's products for managing the complex network topology. On the evening and in the wake of lunch the conference tour was started. It was a nice cost walk side way with an amazing view.

On the last day of the conference, the most interesting part of the conference for me was started. In the morning, the SDN and NFV with open-source and white-boxed workshop was started. The session was managed by Prof. Vijay Sivaraman and his research group. They tried to present an interesting demo of their traffic monitoring tool based on SDN. The showed the tool's performance on the real campus traffic. Recently the fund a start-up to expand their project and propose new solutions for the real complex networks.

Unluckily, that it is impossible to describe all presentations in this short report. However, the full Program ¹ of the conference are available for more detail.

There is no doubt that the highest motivation for attending events like this, is the opportunity to be in touch with other Ph.D. students and research groups who work in the security field and specifically on SDN. I am grateful to COINS for having allowed my presence there through financial support.

¹<https://itnac.org.au/sites/default/files/2018/program.pdf>