

Wireless Telecom Network Planning and Optimization

Speaker: Dr. Wei Yuan, Cerion Networks

Date: Friday, Oct. 6, 2006

Time: 10 am - 12 noon

Venue: WH 413 (CReWMaN Lab)

Abstract:

In this presentation, I would like to share with you wireless network planning and optimization issues that wireless service providers are facing in their daily operations. I will share with you how those issues are resolved currently and how wireless service providers would like those issues to be resolved. I will show that how the issues can be formed into a series of optimization problems and solved using most advanced computer technology, including optimization algorithms you learned from school.

Biography:

Wei Yuan is an expert in wireless data networks and operations research with near 10 years of experience in wireless telecom network optimization and system performance. He is currently Vice President of Operations Research of Cerion Inc.

Wei started his telecom career in 1995 at Nortel Networks Wireless Systems Engineering division where he was developing wireless network optimization algorithms to providing cost savings to wireless carries. Wei also work in Sonus Networks where he involved architecture design of Sonus soft-switch distributed architecture and billing system architecture design. Wei worked in Lucrometrics after leaving Sonus. In Lucrometrics he developed an optimization algorithm for increasing telecom network profitability through capital deferment.

Wei holds 6 US patents in telecommunications area. Before his career in telecom industry Wei was a research fellow in Rice University, developing

algorithms for various large-scale optimization problems on parallel computers. Wei also worked as an instructor in Tsinghua University in China.

Wei received a Bachelors Degree from Xi'an Jiaotong University in China, a Master Degree from Peking University, and a PhD degree from Cornell University, all in Applied Mathematics.