The 3rd International Workshop on High Mobility Wireless Communications (HMWC’2014)
November 1–3, 2014, Beijing, China
http://wstlab.ee.tsinghua.edu.cn/HMWC2014

CALL FOR PAPERS

Future mobile communication systems aim at providing very high-rate data transmission, even under high speed scenarios such as high speed trains and highway vehicles. In such high mobility scenarios, there exist a number of communication challenges, i.e., fast handover, location update, rapidly time-varying channel modeling, estimation and equalization, anti-Doppler spread techniques, coding and network capacity, capacity/approaching techniques, dedicated network architectures, etc. Since the signal transmission under high speed scenarios will inevitably experience serious deterioration, it is imperative to develop key broadband mobile communication techniques for such scenarios.

To deal with the challenges, the Second International Workshop on High Mobility Wireless Communications (HMWC’2014) will be held at Beijing, the capital City of China on November 1-3, 2014. The aim of the workshop is to foster fruitful interactions among communication engineers, information theorists, and system designers interested in high mobility wireless communications, from all over the world. HMWC2014 is technically co-sponsored by IEEE Vehicular Technology. The accepted and presented papers in the workshop will be included in IEEE Xplore.

Topics:
The aim of the workshop is to foster fruitful interactions among communication engineers, information theorists, and system designers interested in high mobility wireless communications, from all over the world. This workshop aims at soliciting high quality, original and unpublished work in this field. The topics of this workshop include, but are not limited to, the following:

- Rapidly time-varying channel modeling, estimation and equalization
- Doppler shift estimation & compensation
- Doppler diversity and anti-Doppler techniques
- Efficient modulation and detection techniques employed in high speed vehicles
- Fast power control
- Fast handover and group handover
- Fast location update
- Highly dynamic radio resource allocation
- Theoretical performance limits of HMWC systems
- Coding and network capacity for HMWC systems
- Interference utilization and capacity/approaching techniques
- Multiple access schemes for very high speed radio systems
- Relay, distributed multi-antenna and cooperative techniques for HMWC systems
- High-speed vehicle-to-vehicle (V2V) and vehicle-to-infrastructure (V2I) radio systems
- Dedicated high speed radio network architectures

Important Dates:
- Manuscript submission: August 1, 2014
- Acceptance notification: September 1, 2014
- Camera-ready submission: October 1, 2014

Paper Submission:
All manuscripts should be converted to PDF format and uploaded to the EDAS system (http://edas.info/newPaper.php?c=17817) before submission deadline, other file format is not acceptable. Each submission must be at most 5 pages in length and conforms to the double-column template provided by IEEE, which is accessible through the conference website in the section of author information.

Conference Proceedings:
In addition to the conference proceedings in CDROM.

Further Information:
The working language of the Workshop is English. Detailed information about the Workshop, such as the camera-ready submission requirement, preliminary technical program, excursion arrangements will also be posted on the above Workshop website.