IEEE ComSoc Introduces Fall 2013 Wireless Training Schedule

IEEE Communications Society

New full-day and three-day courses specifically designed to enhance real-world, wireless expertise of global industry professionals

NEW YORK, NEW YORK (8 October 2013) -- The IEEE Communications Society (ComSoc) has introduced its Fall 2013 wireless training schedule specifically-designed to enhance the real-world skills and in-field knowledge of global industry professionals. The ongoing program, offering both online and in-person learning experiences, highlights the latest fundamental details and advanced applications in key growth areas such as LTE, VoLTE, self-organizing networks (SON) and Machine-to-Machine (M2M) communications.

“IEEE ComSoc Training is dedicated to constantly refreshing its course material. Courses may have the same title, but they are unscripted and taught live with current event examples and fresh participant questions to make each session a unique experience,” says Lee Vishloff, PEng, IEEE WCP. “These courses can also be helpful to those preparing to earn the IEEE Wireless Communication Engineering Technologies (IEEE WCET) certification. The WCET program is gaining worldwide recognition as an internationally-accepted credential of wireless expertise.”

The IEEE ComSoc Training Fall 2013 schedule began with the recent launch of the newly-introduced, online session titled Fundamentals of 4G Small Cell Deployments, which will be held again on Thursday, 14 November and Monday, 23 December. Developed and taught by Jonathan Levine, Senior Radio Frequency Planning Engineer for U.S. Cellular, this four-hour tutorial will explore small cell base stations and their role in expanding the targeted capacity of wireless networks as well as the challenges associated with radio interference, property rights, power requirements and options, backhaul concerns, spectral efficiency guarantees, scalability impacts and RF propagation control.

IEEE ComSoc Training will then hold the course on Machine-to-Machine (M2M) for Engineers & Managers via WebEx on Monday, 30 December. The full day, virtual session taught live will offer insights for navigating the M2M maze from analysis, design, approvals and support all the way through marketing and launch. This includes a detailed review of the wireless device regulatory industry and carrier certification processes surrounding the introduction of solutions in various countries.
Throughout the remainder of 2013, IEEE ComSoc Training will host several courses exploring the latest wireless communications and engineering advances. This will include the interactive instruction of:

- LTE for the Wireless Engineering Practitioner: Fundamentals and Applications, which will be held online on Tuesday, 15 October and Wednesday, 4 December and detail the evolution of wireless communications technologies and networks with a concentration on end-to-end LTE system views and the influence of emerging IP networks
- VoLTE: Convergence of IMS-based Voice and LTE, to be held online on Wednesday, 16 October to address the opportunities and challenges of Voice over LTE (VoLTE) as 4G wireless evolves to an all-IP network
- Self Organizing Networks: The New Must within LTE/Multi-Technology Roadmap, which will be held online on Tuesday, 22 October and covers key requirements for the Next-Generation Mobile Network and the role of SON in addressing tremendous traffic growth, in service/experience optimization and in cost/energy efficiency
- Wireless Communications Engineering: Current Practices to be held online on Wednesday, 30 October with the purpose of discussing the key subject areas covered within the IEEE WCET examination. This includes antenna engineering basics and parameters; radio wave propagation; radio frequency engineering; wireless access technologies; network & service architectures; wireless network management & security; infrastructure and wireless communications; and agreements, standards, policies and regulations
- Introduction to Professional Wireless Communications to be held online on Thursday, 7 November with an emphasis on providing professionals with up-to-date knowledge of technologies, products and services in the mobile telecommunications industry. Topics include radio/spectrum/mobility terms and definitions; wireless broadband, cellular, WLAN, grids and short-range networks; devices such as smartphones, sensors; and multimedia, applications and services
- Practical Wireless Communications Engineering to be held 19 November at IEEE MILCOM’13 in San Diego, California. This in-person tutorial will explore the differences between analog and digital communications and the engineering aspects of each as well as provide attendees with a better understanding of how different facets of wireless practice fit into the overall design, implementation, and operation of wireless networks for these technologies
- Intensive Wireless Communications Engineering: Current Practices to be broadcast online and held in-person at IEEE GLOBECOM 2013 in Atlanta, Georgia from Monday, 9 December to Wednesday, 11 December. This intensive, 20-hour session is designed to provide a detailed understanding of wireless network management and security issues, industry standards, wireless access technologies and fundamental practices

In the coming months, IEEE ComSoc will also announce several new educational programs dealing with the latest paradigms for wireless traffic growth and management as well as next generation M2M advances surrounding energy and power efficiency and big data and end-to-end virtualization.

The next IEEE WCET examination cycle will be held from 17 March - 12 April 2014 with applications due by 28 February 2014.

For more information, visit www.ieee-wcet.org [1].

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[1] http://www.ieee-wcet.org