

News

Upcoming Events

- Dec 11-14, 2006
8th International Conference on Electronic Materials and Packaging (EMAP2006)
- Nov 27-30, 2006
5th Asian-Australasian Conference on Composite Materials
- Sept 18, 2006
One Day Workshop: Regulations, Technologies and Risk Assessment in Wastewater Reclamation and Reuse
- Sept 16-20, 2006
The Croucher Foundation Advanced Study Institute (ASI): Leading-edge Strategies and Technologies for Sustainable Urban Water Management

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HKUST to Showcase Cutting-Edge Technologies at ITU Telecom World 2006

香港科技大學在國際電聯2006年世界電信展展出前沿科技項目

The Hong Kong University of Science and Technology (HKUST), one of the world's leading technology universities and a research powerhouse in telecommunication and information technology, will showcase a number of its latest IT and telecommunication innovations at the influential Information Telecommunication Union (ITU) Telecom World 2006, which will take place at AsiaWorld-Expo in Hong Kong from December 4 to 8.

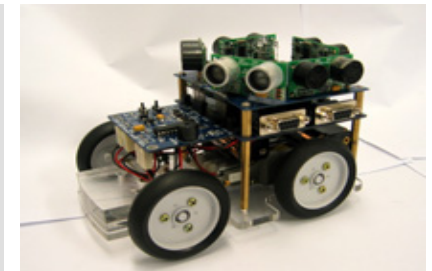
ITU Telecom World, originally held every four years and now every three years, is among the most significant Information and Communication Technology (ICT) events globally. It draws top names from the world's major ICT companies, key policy-makers, regulators and industry visionaries, who come together to network, do business and help shape the future of the world's ICT industry. This year's event in Hong Kong, organized under the theme of "Living the Digital World", marks the first time that ITU Telecom World has been held away from its traditional home in Geneva since its launch in 1971. Among the many senior figures scheduled to attend are Mr John Chambers, CEO Cisco Systems, Mr Kaoru Yano, President NEC Corporation, the Hon Henry Tang, Financial Secretary, HKSAR Government, Ms Viviane Reding, European Commissioner for Information Society and Media, and Serge Tchuruk, Chairman and CEO Alcatel.

The HKUST exhibition booth, located in the Hong Kong Pavilion (8019.008), will provide demonstrations of innovative projects covering multimedia technology, wireless communications, and wireless networking. These include the Wireless Sensor Network on Mobile Platform, which will demonstrate ad-hoc mobile sensor network (WMS) communication using a fleet of three mini-cars equipped with wireless sensors nodes; the digital watermarking method that produces two watermarked images which, when overlapped, reveal a hidden visual pattern; a flat fading 4 x 4 MIMO channel testbed explicitly for testing and characterizing MIMO antennas; and projects in Beyond 3G, Cognitive Radio, ASIC Design for UWB, and Peer-to-Peer IPTV, among others.

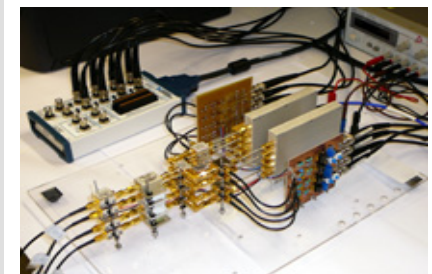
On Tuesday December 5, Prof Oscar Au from the Electronic and Computer Engineering Department will speak at the Exhibition's "Stage for Excellence" on "Audio Video Coding Standard (AVS) Technology", introducing a new video streaming technology, developed at HKUST, which enables mobile-phone users to receive any video source and play it on their handsets in real time with equally high quality but at significantly lower cost.

On Friday December 8, Zhu Jinhao, a postgraduate student from the Computer Science and Engineering Department and an eYouth Certificate of Merit awardee at the Hong Kong ICT Awards 2006, will present his winning project Soul Envoy (a highly interactive and powerful physics-based 3D game engine) at the "Stage of Excellence".

Representing HKUST at ITU Telecom World 2006 will be Prof Tony Eastham, Acting Vice-President of Research and



Wireless Sensor Network on Mobile Platform, mini-car equipped with wireless sensor node



MIMO Antenna Testbed



AVS technology enables mobile phone users to receive video source and play it on mobile handsets in real time with high quality

Development, Prof Philip Chan, Dean of Engineering, Prof Khaled Ben Letaief, Head and Chair Professor of the Electronic and Computer Engineering Department, Prof Oscar Au of the Electronic and Computer Engineering Department, and Prof Qian Zhang of the Computer Science and Engineering Department. They will seek to share their vision and insights with influential figures and decision-makers in industry and government, enabling the University's research and development strengths to assist Hong Kong and the region in becoming a leading center for communication and information technology.

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香港科技大學(科大)將於12月4至8日，在香港亞洲國際博覽館舉行的國際電聯2006年世界電信展中，展出多個創新的資訊科技和電信研究項目。

電聯世界電信展，是全球信息通訊科技界的盛事。過去每四年舉辦一次，目前改為三年。每屆展覽都吸引全球通信產業界的著名企業總裁、決策者、監管機構領導人聚首一堂，共同探討通信業的未來發展。本屆的主題為“生活在數字世界”，是世界電信展自1971年舉辦以來，首次移師傳統舉辦地日內瓦，到香港舉行。參加今次展覽的業界巨擘，包括思科系統總裁約翰·錢伯斯、NEC總裁矢野薰、香港特別行政區財政司司長唐英年、歐盟信息社會與媒體專員、以及阿爾卡特主席兼行政總裁謝瑞克等。

科大的參展攤位，在香港館8019.008號，展出的項目包括（1）多媒體技術；（2）無線通訊；（3）無線網絡。這三大類的細分項目包括：在移動平台上的無線感測器網絡通訊（用三輛小型車子裝置網絡節點的無線感測器網絡通訊系統）；數碼水印技術（把兩個水印圖片重疊出現隱藏圖案的方法）；測試多輸入輸出天線的4X4多輸入輸出試驗床。此外，還有第四代流動通訊，認知無線電、超寬帶特定用途集成電路設計、點對點視像電視先進技術的研究項目。

電子及計算機工程學的區子廉教授，獲邀於12月5日（星期二）的大會的“卓越講臺”上講解視像串流系統（中國AVS標準），介紹科大研發的嶄新視像傳送技術，流動電話用戶可以接收不同視像訊息，並可隨時在手機上，收看到高質素、低成本的視像。

另外，科大計算機科學及工程學系的研究生朱金皓，亦獲邀於12月8日(星期五)的“卓越講臺”上講解他的“靈魂使者——支援網絡的大型即時三維遊戲引擎”軟件。這個項目曾於2006年香港資訊及通訊科技獎的數碼青年（軟件）獎中，獲優異證書。

代表科大參加今屆電信展包括署理研究發展副校長易東萊教授、工學院院長陳正豪教授、電子及計算機工程學系系主任李德富教授及區子廉教授，以及計算機科學及工程學系張黔教授。他們會與業界領袖和政府官員，分享他們的研究見解，務使科大在科技研發領域上的優勢，對香港及內地發展成為信息及通信中心，作出貢獻。

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