

# Invitation

The ACC\* together with IMA Tech and Shiluvim will host a workshop on

## Innovative Coverage Solutions

moderated by Dr. Avi Freedman

Where

Claire and Emanuel G. Rosenblatt Auditorium  
The Wolfson Computer and Software Engineering Building, Tel Aviv University

When

**Wednesday September 13th, 14:00 - 18:00**

Cost: Free of charge to ACC guests, IMA and Shiluvim members

The workshop is aiming to present innovative approach to coverage of cellular / Wi-Fi / WiMAX networks. It will present researches currently performed in the academia together with innovative approaches and solutions (both in software and in hardware) and that are being developed in industry. It covers topics in topology, performance prediction, and hardware design for the new generation of wireless networks that converge fixed and mobile access (combining Mobile WiMAX AND Cellular services) as well as different wireless standards, (3G, Wi-Fi, WiMAX) and include elements such as relays, pico-basestations, distributed base stations and more.

Dr. Avi Freedman is a graduate of Tel-Aviv University, where he received his B.Sc. M.Sc and Ph.D. in Electrical Engineering. He also did a postdoc in University of Pennsylvania and taught in Tel-Aviv University. Avi has been with the industry since his graduation, in the IDF, ELTA, InnoWave-ECI in the fields of radar and wireless communication. Currently Dr Freedman is the CTO of Hexagon System Engineering Ltd., a firm specializing in advanced network planning tools for wireless networks.

For more information or to register please send your contact details to:

[Maya Shahaf <mayash@eng.tau.ac.il>](mailto:mayash@eng.tau.ac.il)

Agenda:

13:30 - 13:45	Registration, refreshments...	
13:45 - 14:00	Welcoming, introduction, Greetings	
<b>System and Hardware Solutions</b>		
14:00 - 14:25	Eli Attar, Chief Engineer, ALCATEL TELECOM ISRAEL.	Software Defined Radio for Mobile Radio Networks

14:25 - 14:50	Professor Rafael Kastner, EE School and the ACC, Tel-Aviv University	Dual frequency antenna design.
14:50 – 15:15	Naftali Chayat, Chief Scientist, Alvarion	Deployment considerations for Mobile WiMAX
15:15 - 15:40	Isaac Shapira V.P. R&D, Mobile Access	Concentration of Multi-operators over a single Fiber DAS
15:40- 16:10	Break	
Network Planning and Optimization		
16:10-16:35	Lev Smolyar, EE School, Tel-Aviv University	Unified approach to joint downlink power allocation and base assignment in multi-cell networks.
16:35- 17:00	Moshe Levin , President and CEO,Hexagon Ltd.,	Coverage Prediction and Verification Methods
17:00 - 17:25	Professor Vladimir Lyandres, Ben-Gurion University	Joint Optimization of Frequency Assignment and Base Stations Location in Cellular Networks
17:25-17:50	Alon Berman, Vice President Technology, Partner Communications	Innovative Cellular Indoor Coverage Solutions femto BTS Smart Repeaters
17:50 - 18:15 (time permitting)	All participants	Panel

\*About the ACC:

The [Advanced Communication Center \(ACC\)](#) is located within the School of Electrical Engineering in the Faculty of Engineering at the University of Tel Aviv (Israel's largest university). The ACC, which has been established with a [strong support of Intel Corporation](#), is focused on carrying out leading edge research, developing collaborative partnerships and educating highly qualified graduate students in all areas of telecommunication from the RF, and Analog devices and their integration with VLSI design, through signal processing and communication theory to the communication protocols and applications.

Sincerely,  
Danny Strauss



**Advanced Communication Center**  
**Danny Strauss** Manager

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