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Poštovani,

Zadovoljstvo mi je da vas u ime Jugoslovenskog udruženja za mikrotalsnu tehniku i tehnologiju i IEEE YuMTT-S Chapter-a pozovem na predavanja koja će se **18. jula 2006. u 12h** održati u biblioteci Instituta IMTEL, Bulevar Mihajla Pupina 165b, Novi Beograd

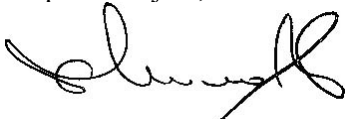
Prof. Olga Borić-Lubecke, Department of Electrical Engineering, University of Hawaii at Manoa: “Silikonski čipovi za merenje i obradu biomedicinskih signala”

Abstract: Ovo izlaganje ce obuhvatiti tri silikonska čipa za merenje i obradu biomedicinskih signala: kompaktan Dopler radar za merenje aktivnosti srca i pluća na daljinu, kao i čipove za analognu i digitalnu obradu EKG signala. Testiranje Dopler radara je izvršeno na 20 osoba, i urađeno je poređenje tačnosti radara sa trožičnim EKG-om. Analogna i digitalna obrada EKG signala su upoređene da se odredi koji je sistem prigodniji za dugoročno posmatranje hroničnih bolesnika.

Prof. Victor Lubecke, Distinguished Lecturer IEEE MTT-Society, Department of Electrical Engineering, University of Hawaii at Manoa: “Through-the-Wall Personnel-Detection Technology”

Abstract: Technology that can be used to unobtrusively detect and monitor the presence of human subjects from a distance and through barriers can be a powerful tool for law enforcement, military, and health monitoring applications. Various technologies from passive millimeter-wave imaging to ultra wideband radar have demonstrated potential for identifying silhouettes, detecting gross motion, and even distinguishing illicit materials and biological characteristics through various obstructions. Compact radar solutions have been used to detect and monitor cardiopulmonary activity of hidden stationary subjects, in some cases leveraging the presence of ambient radio signals to provide a virtually passive means to detect, isolate, and physiologically monitor human subjects through walls. Practical applications ranging from counter-terrorism to outpatient monitoring require solutions that are accurate, affordable, easily deployed, and minimally tended. An overview of current research efforts addressing these challenges through radio, signal processing, and sensor networking theory and hardware will be presented.

Sa poštovanjem,



Prof. dr Bratislav Milovanović,
predsednik Udruženja