

Modern Harmonic Analysis Methods for Advanced Wireless Communications (MOHAWI)

Zusammenfassung

Methods of time-frequency analysis, in particular the Gabor transform, are an important tool in signal processing for improved and stable representation of signals. The objective of this project is the application of new mathematical results in time-frequency analysis to the modeling and analysis of wireless communications systems. The expected benefit will be a more efficient energy balance and higher data rates. The concrete applications of the project are expected for the next generation of mobile communication systems that will work in higher frequency bands.

Keywords:

Harmonic Analysis, Gabor Transform, Pseudodifferential Operators, Wireless Communications

Principal Investigator: Karlheinz Gröchenig

Institution: University of Vienna



Status: Abgeschlossen (01.08.2005 - 31.07.2009) 48 Monate

Weiterführende Links zu den beteiligten Personen und zum Projekt finden Sie unter

<https://wwtf.at/programmes/mathematics/MA04-044>