## Hermann Auernhammer



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Hermann Auernhammer is a Professor emeritus of Agricultural Systems Technology in the Department of Life Science Engineering at Technische Universität München (TUM) in Germany. During his active career his research focused on the following major areas:

He started his career in agricultural work sciences developing a powerful calculation system based on work time elements from time studies to predict in comprehensive simulations the work time requirement and workload of any agricultural task. He then switched to systems engineering in dairying where he used electronics for animal identification, milk yield and body weight measurements to optimize feed intake rations. Thereafter he moved to plant production systems applying electronics to achieve more precise fertilization which led to the development of the electronic communication system between tractor, implement and farm management computer, ultimately standardized in ISO 11783 (ISOBUS). He extended this research to the use of electronics in plant production systems for precision farming. Finally first solutions of electric drives in self propelled forage harvesters opened up agricultural engineering to the needs and challenges of tomorrow. Together with John Schueller he initiated the CIGR Next Leaders Events at the CIGR Conference 2008 in Iguassu (Brazil) and organized, assisted by Markus Demmel, the first two events in Germany prior to the AGRITECHNICA Exhibition in 2009 and 2011. He retired in autumn 2007 and is strongly engaged in archiving pictures and scriptures of agricultural technology in the AgTecCollection in mediaTUM<sup>®</sup> (http://mediatum.ub.tum.de/agteccollection) in a digital way.



The very first drawing of the "Agricultural BUS-System (LBS)" Sep 1989, predecessor of ISOBUS



The worldwide well known picture of "Precision Farming" from 1991