



Professor Jonas Sjöberg the head of the Mechatronic Research Group at the Department of Signals and Systems at Chalmers university of Technology, Gothenburg, Sweden. His research interest is aspects on modelling of dynamic systems and the methods for modelling with focus on general engineering methods often labeled as “Model based ...”. The goal of these methods are typically optimal sizing of system and system components with respect to economical or environmental measures. Theory and algorithms for simulation and optimization is then also considered.

Since more than 15 years he and his team are involved in automotive research activities concerning electric and hybrid vehicles on one side, and active safety and autonomous driving on the other side. The engineering core competence has successfully been applied on these topics, often in collaboration with industry such as Volvo Cars, Volvo Group and Autoliv. The research group participate in many national and international research projects, among other the EU project AdaptIVE which has 28 partners from various European countries, developing technology for autonomous driving. The research has resulted in several patents, and for one of them he was awarded Volvo Cars technology award 2011. The safety function building on that patent is now part of the safety system in the current XC90 model.

Since 2007 Jonas has regularly been participating in IEEE ITSS activities, and since 2012, starting with IV'12 he has also been involved in the organization of the events of ITSS. In 2015 he was co-main chair of the FASTzero symposium, and 2016 he is main chair of IEEE Intelligent Vehicles Symposium, both held in Gothenburg Sweden.

Jonas earned a PhD in control engineering in 1995 from Linköping University, Sweden, and a master in applied physics from Uppsala University 1989. After a Post-Doc at ETH Zurich, he became Assistant Professor at Chalmers, and after research visits at TU Wien, and at Technion in Haifa, he became a Professor of Mechatronics at Chalmers University of Technology in 2001.