

博士課程教育リーディングプログラム 2022年度リーディング特別セミナー

## Introduction to ESP (Electronic Stability Program) for Commercial Vehicles

聴講  
自由

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Knorr-Bremse Commercial Vehicle Systems**

### Abstract:

To avoid traffic accidents, it is important to assist drivers in keeping their vehicles stable even under difficult conditions. The Electronic Stability Program (ESP) is an important function in this context. By applying wheel individual braking pressures, it can stabilize the vehicles and avoid roll over.

In this context stabilization of commercial vehicles poses additional challenges due to the high number of vehicle types (e.g. busses and trucks), complex physics, for example due to additional trailers, and different loading conditions.

In this talk an introduction into the working principles of ESP for commercial vehicles is given.



### Biography:

Gunter Heppeler received his Dipl.-Ing. degree in engineering cybernetics from the University of Stuttgart, Stuttgart, Germany in 2011. He worked as a Research Assistant at the Institute for System Dynamics, University of Stuttgart, from 2011 to 2016. From 2016 to 2017 he was a JSPS fellow at the Systems Engineering Laboratory of the Toyohashi University of Technology. He received his phd from the University of Stuttgart, Germany, in 2019. Since 2017 he is a development engineer at Knorr-Bremse Commercial Vehicle Systems, Schwieberdingen, Germany.

**日時 : 2022年4月20日(水) 13:10~14:30**

**会場 : 豊橋技術科学大学 D棟4階 D-412室 (学内者のみ)**

**オンライン (学内者および学外者)**

※感染対策上オンライン参加を推奨します。感染状況により、オンライン開催のみとなる可能性があります



オンライン参加  
申し込みはこちら

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