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Meriem Nachidi

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problem:

Fuzzy Control techniques have become widespread over the last few decades in the scientific community, supported by a large number of practical applications. In particular, several studies concern the control of nonlinear systems using the TakagiSugeno models by using the concept of Parallel Distributed Compensation to design fuzzy regulators. Thus, this book concentrates on developing systematic procedures to design controllers for nonlinear systems which ensure closed-loop control specifications (mainly stability), with a view to their application to real systems. In the proposed procedures, the core is an LMI-based design approach. Thus, all stability analysis and controller design problems are conducted in such a way that they can be reduced to convex optimization problems, represented under Linear Matrix Inequality form.

About the Author Meriem Nachidi received the Ph.D degree in Process Engineering and Systems in 2009 from the Univ. of Valladolid, Spain. From 2009 to 2010, she was a Postdoctoral Research Fellow at the Department of MIS, Univ. of UPJV, France. She is currently with the Univ. of UCM3, Spain as a visiting professor. Her research interest includes fuzzy control.