

Contents

1	Introduction	6
1.1	Motivation	6
1.2	State of the art in eco-driving	7
1.3	State of the art in mixture estimation	7
2	Driven car as stochastic system	8
2.1	General problem formulation	8
3	Mixtures with data dependent switching model	9
3.1	Specific models	9
3.2	Problem specification	11
3.3	Summarized theory	11
3.4	Algorithm	14
4	Application to fuel consumption estimation	15
4.1	Data	15
4.2	Model construction	16
4.3	Initialization	17
4.4	Results	17
4.5	Discussion	17
5	Conclusion	18
5.1	Future plans	20
6	References	22
7	Ing. Evgenia Suzdaleva CSc.	26