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# Cooperative Connected and Automated Mobility (CCAM) Technologies and Applications

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Edited by

Joaquim Ferreira

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# **Cooperative Connected and Automated Mobility (CCAM)**



# Cooperative Connected and Automated Mobility (CCAM): Technologies and Applications

Special Issue Editor

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## About the Special Issue Editor

**Joaquim Ferreira** holds a Ph.D in Informatics Engineering from the University of Aveiro (2005). Currently, he is adjunct professor at the University of Aveiro and researcher at the Telecommunications Institute (IT). His research interests include connected and automated vehicles (CAV), dependable distributed systems, fault-tolerant real-time communications, wireless vehicular communications and medium access control protocols. He was principal investigator, local coordinator or participant in over 15 funded national and international research projects. He is a senior member of IEEE, has participated in more than 30 conferences of scientific committees and has served as guest editor of several journals. He currently coordinates two connected mobility projects: Celtic Next SARWS and P2020 PASMO. He is also coordinating the participation of IT in two other connected mobility projects: P2020 TRUST and H2020 5G-MOBIX.





# Preface to "Cooperative Connected and Automated Mobility (CCAM): Technologies and Applications"

Cooperative connected and automated mobility (CCAM) has the potential to reshape the transportation ecosystem in a revolutionary way. Transportation systems will be safer, more efficient and more comfortable. Cars are going to be the third living space, as passengers will have the freedom to use their car to live, work and travel. Despite the massive effort devoted, both by academia and industry, to developing connected and automated vehicles, there are still many issues to be addressed, including not only scientific and technological, but also regulatory and political issues.

This book, mostly centered on the scientific and technological aspects of CCAMs, features seven articles highlighting recent advances of the state of the art in different CCAM technologies. The field of cooperative connected and automated mobility is rather vast and multidisciplinary, and as a consequence many key aspects of CCAM technology were not addressed.

I would like to thank all authors who have contributed their work to this book.

**Joaquim Ferreira**  
*Special Issue Editor*