



VTC2020-Spring

ANTWERP

AI Revolution Beyond 5G Horizon

2020 IEEE 91st Vehicular Technology Conference

25 May – 28 May 2020

Virtually Held

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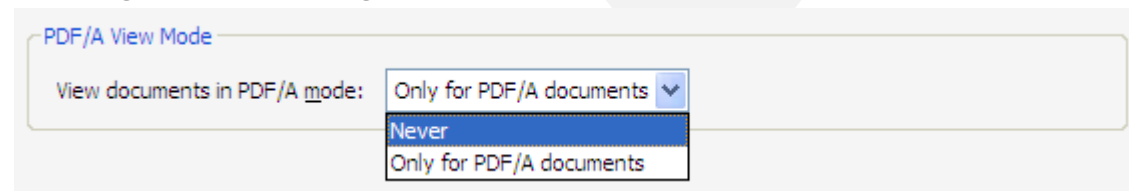
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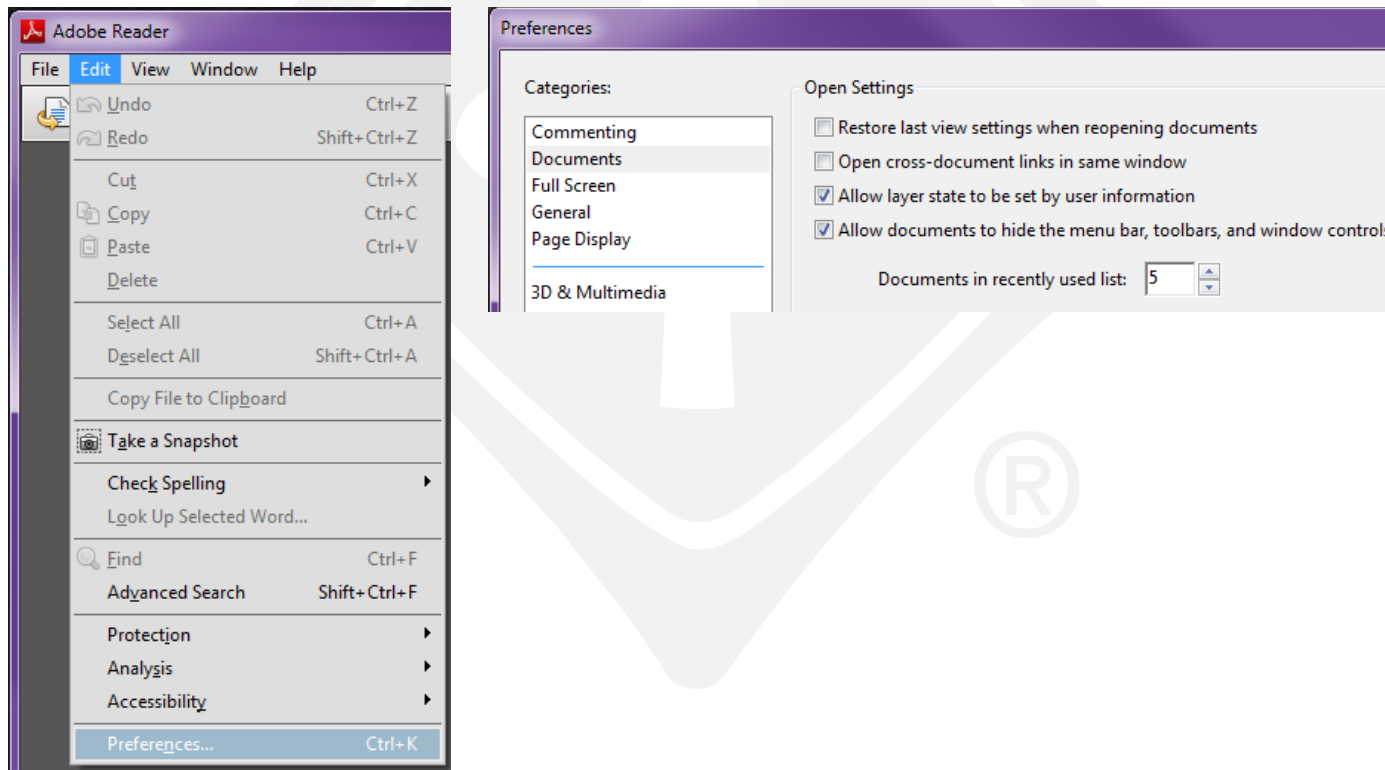


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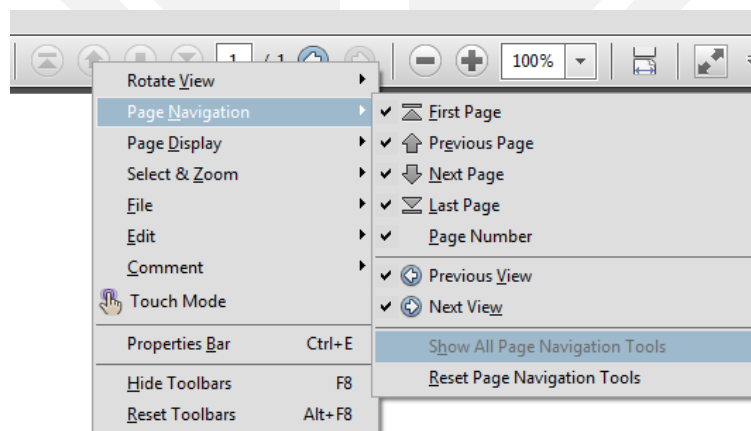
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Be sure to read the “Getting Started” section for useful recommendations on how to use this electronic guide.

Thank you and enjoy!

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Welcome from the General Chair

Haris Gačanin, General Chair, IEEE VTC2020-Spring



With greetings on behalf of the IEEE VTC2020-Spring Organizing Committee, I welcome you to IEEE VTC2020-Spring, and for those few who are local, to Antwerp! As you are well aware, due to the extraordinary situation produced by COVID-19, we have decided to prepare our conference in a virtual format to best keep you physically safe while still profiting from the stimulating, intellectual developments that we have in store.

Notwithstanding, communication technology today plays a critical role in our business and daily lives. Even more, it seems to be reenergized and moving ahead again at increasing pace. As we have recently observed, 5G technology has now truly taken off and we get to experience the importance of both wireless and networking technologies anew. Businesses and people have rapidly changed the way they operate and communicate with each other. This opens the door for greater potential in new research directions both by industry and by academia to address challenges that we may face in the future.

Thus, the organization of IEEE VTC2020-Spring as a virtual event will serve as a starting point for our technical discussions to continue to overcome

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the current difficulties during this challenging time. We will come together to focus our attention so as to inform and provide the latest research results among our community. This will be reflected in the 540+ papers, multiple keynote sessions, highly relevant tutorials, and cutting edge workshops at this conference.

The IEEE VTC event has a long and fulfilling history. Over the past many years, IEEE VTC has become well established as one of the premier conferences in the world on wireless communications. Now, IEEE VTC2020-Spring – the 91st VTC – is making digital history on its own: it will be first ever VTC to be held virtually.

Once again, welcome to our conference, and I hope you will enjoy this first ever virtual VTC!

Haris Gačanin
General Chair, IEEE VTC2020-Spring

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Message from the TPC Co-Chairs

On behalf of the Technical Program Committee, we would like to welcome you to the 91st IEEE Vehicular Technology Conference (VTC2020-Spring) that will be, for the sake of safety and health of all participants, organized in a virtual online format.

This first fully virtual edition of VTC has been able to attract an exciting technical program ranging across the latest areas of research in wireless systems and networks, connected and autonomous vehicles, both manned and unmanned, emerging trends in applications of machine learning and artificial intelligence in wireless communications, and many other emerging topics. The technical program consists of 347 outstanding papers that will be presented in 70 regular sessions as part of 12 conference tracks that comprise the IEEE VTC2020-Spring technical program. In addition, our Recent Results track attracted a large number of submissions out of which 121 high-quality contributions will be also presented, adding 25 recent results sessions to the conference program. In addition to the regular and recent results sessions, the conference will feature 12 topical workshops, 9 tutorials delivered by the leading experts in the field, and 5 extraordinary keynote speakers, four of which come from industry while one comes from the academic domain.

We would like to use this opportunity to thank all the excellent track chairs

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and co-chairs of the 13 tracks. They all managed to get at least 3 reviews for each paper in a short time frame, and the decision process went extremely smoothly. We would like to thank the members of the IEEE VTC2020-Spring organizing committee for their great responsiveness and support during

the entire period of technical program preparation and development.

Finally, we would like to thank the authors, who always stood by in difficult times, waiting for last-minute changes and updates for the conference organization. We hope you are proud to have your work as part of this virtual edition, and still enjoy the virtual networking. We encourage you all to maximally dive into the program, and to engage with the many experts that will gather virtually. Let's learn, interact, and enjoy!

Dejan
Osamu
Sofie Pollin

VTC2020-Spring Technical Program Committee Co-chairs

Sofie Pollin, KU Leuven, Belgium

Dejan Vukobratovic, University of Novi Sad, Serbia

Osamu Muta, Kyushu University, Japan

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Welcome from the VTS President

Abbas Jamalipour, The University of Sydney, Australia



On behalf of the IEEE Vehicular Technology Society, it is truly an honor and a pleasure to welcome all of you to our society's semi-annual flagship conference, the 2020 IEEE 91st Vehicular Technology Conference – VTC2020-Spring. The conference also marks our first ever VTC to be held virtually.

This year's Spring 2020 edition of the Vehicular Technology Conference series will provide attendees with a superb collection of technical paper presentations, tutorials, plenary talks, and workshops, all in a virtual format. With the current COVID-19 global health crisis, the VTS Board of Governors has decided to convert IEEE VTC2020-Spring in Antwerp, Belgium, to a fully virtual conference for the original date, 25 – 28 May 2020. We do realize that this formula will not allow to reproduce the professional networking environment that you are used to, but it will allow VTC2020-Spring to still attain a portion of its objectives. Please know that our thoughts are with those affected by the COVID-19 outbreak. The health and safety of our members, conference attendees, and volunteers is the utmost priority of our society.

It is always our intention to be flexible and helpful to everyone during this time of difficulty. VTS is fully supportive of IEEE's mission statement and we wish you and all people success in dealing with any local challenges

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you may be facing. We have thus relaxed standard requirements for on-site presentation of papers for authors and provided some financial adjustments to the cost of conference attendance. VTS understands the fact that conferences are an important factor in publications of papers by graduate students and academics, in dissemination of new product and services by industry and government agencies, and in providing a networking platform for the profession. We therefore decided to make sure that we can still publish papers accepted in our major conferences so the students can graduate, and our researchers can register their novel ideas and outcomes.

Organizing a world-class conference event such as VTC2020-Spring in normal times involves a large and highly dedicated team of volunteers, and with the change from a physical to virtual conference that has even become more challenging. We are very thankful to everyone making this conference an outstanding success! I would like to sincerely thank General Chair Haris Gacanin, Technical Program Co-chairs Sofie Pollin, Dejan Vukobratovic, Osamu Muta, and the rest of the conference organizing team for their time, effort, dedication, and commitment for making VTC2020-Spring one of the premier “virtual” international conference events in vehicular technology!

I am looking forward to the end of pandemic and seeing all of you at VTC2020-Fall in Victoria, Canada, where we will be Connecting the Mobile World! Stay safe.

Abbas Jamalipour
The University of Sydney, Australia

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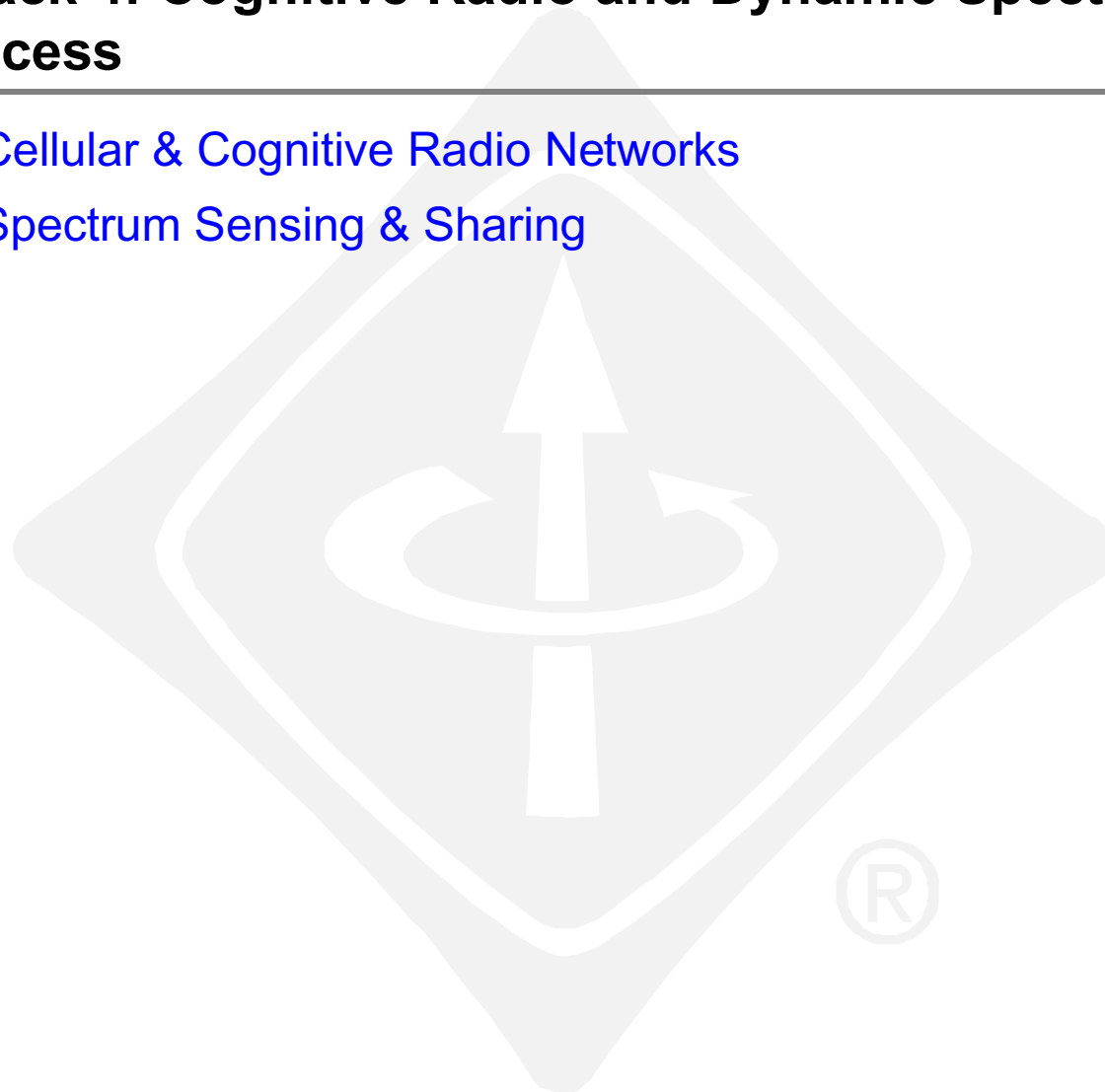
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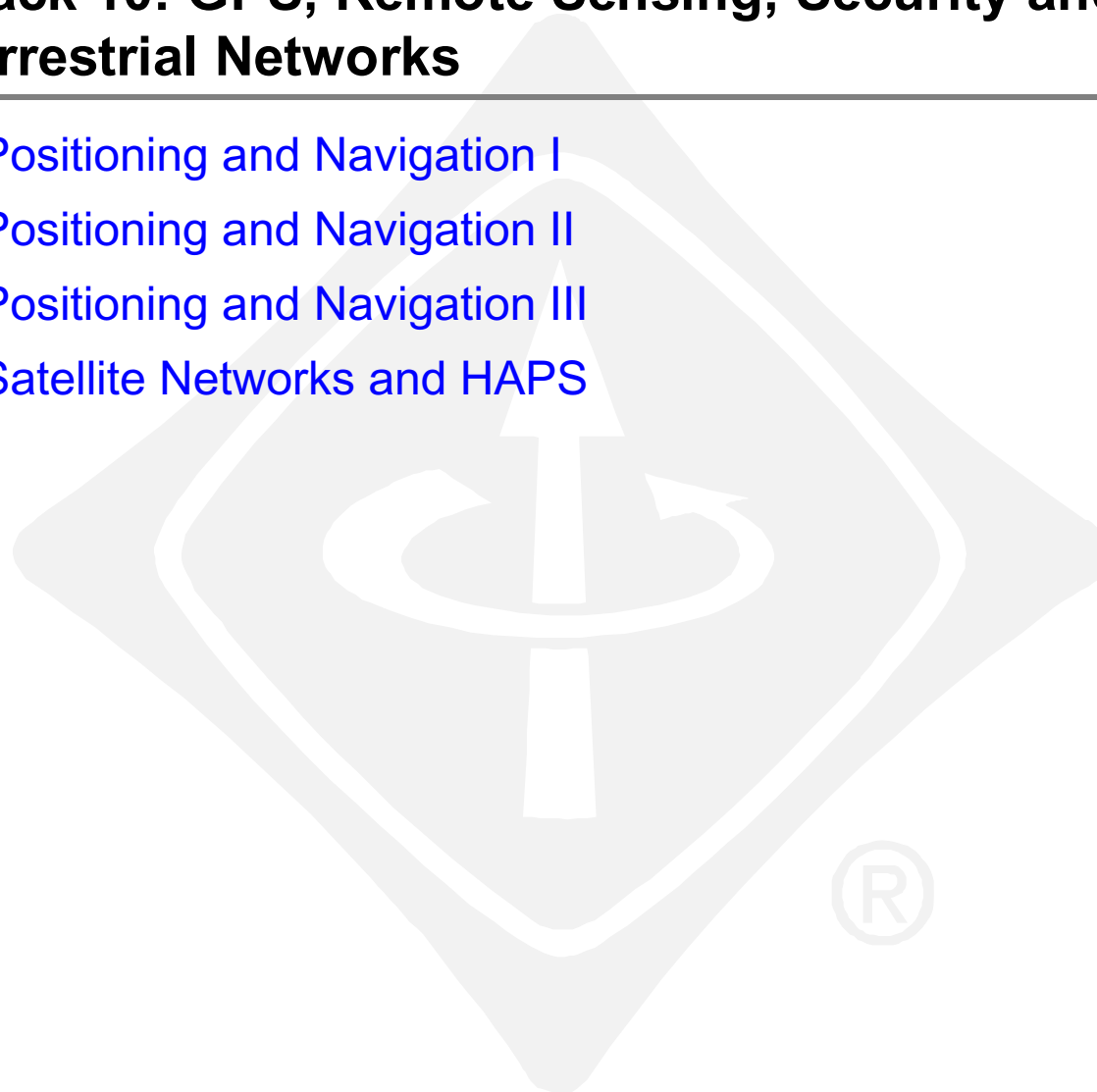
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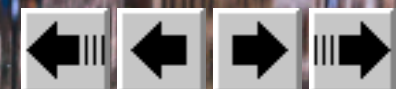
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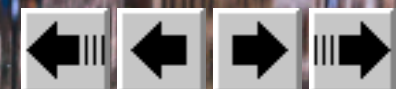
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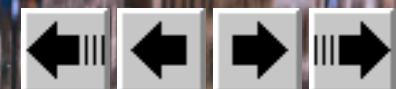
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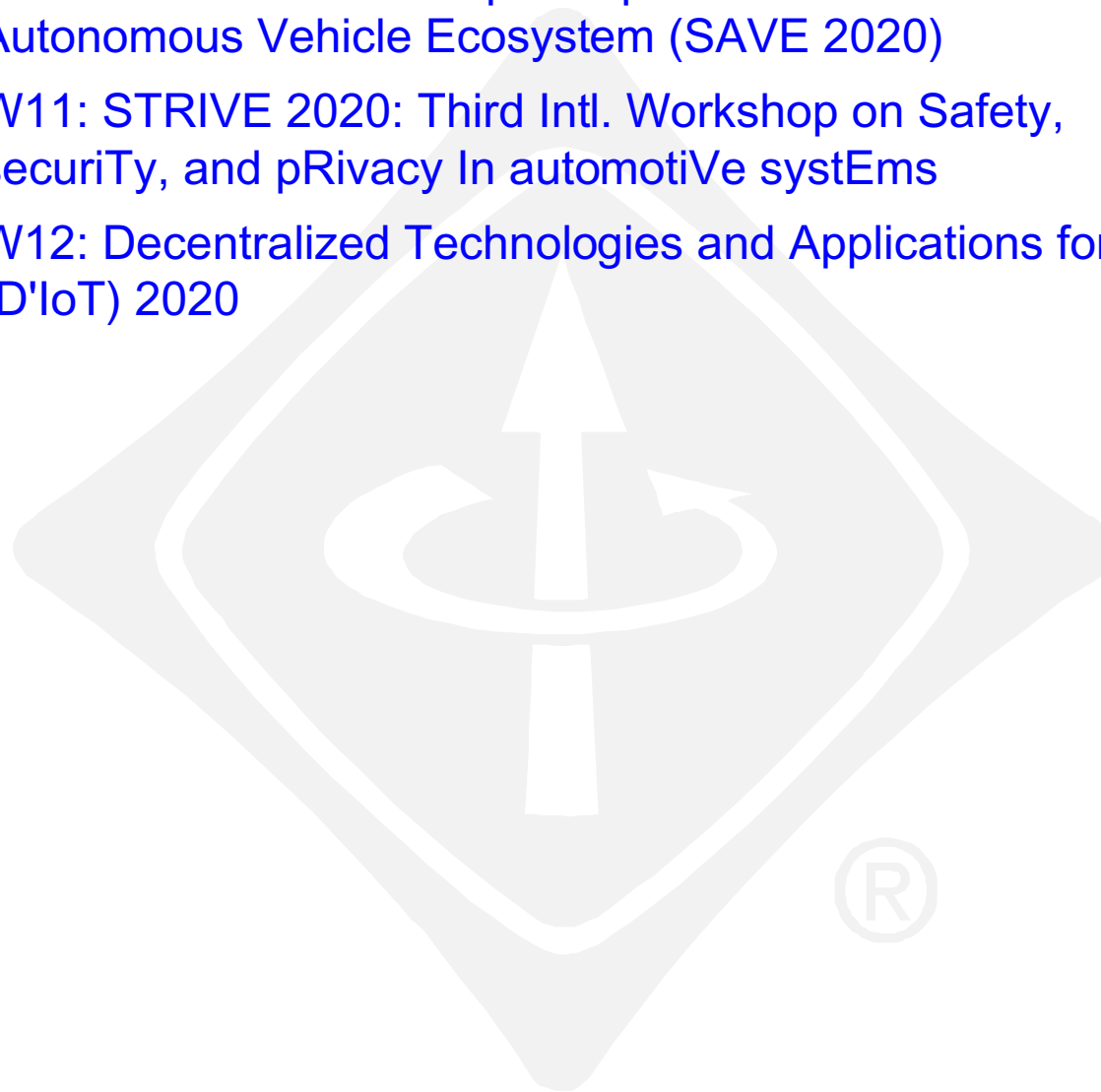
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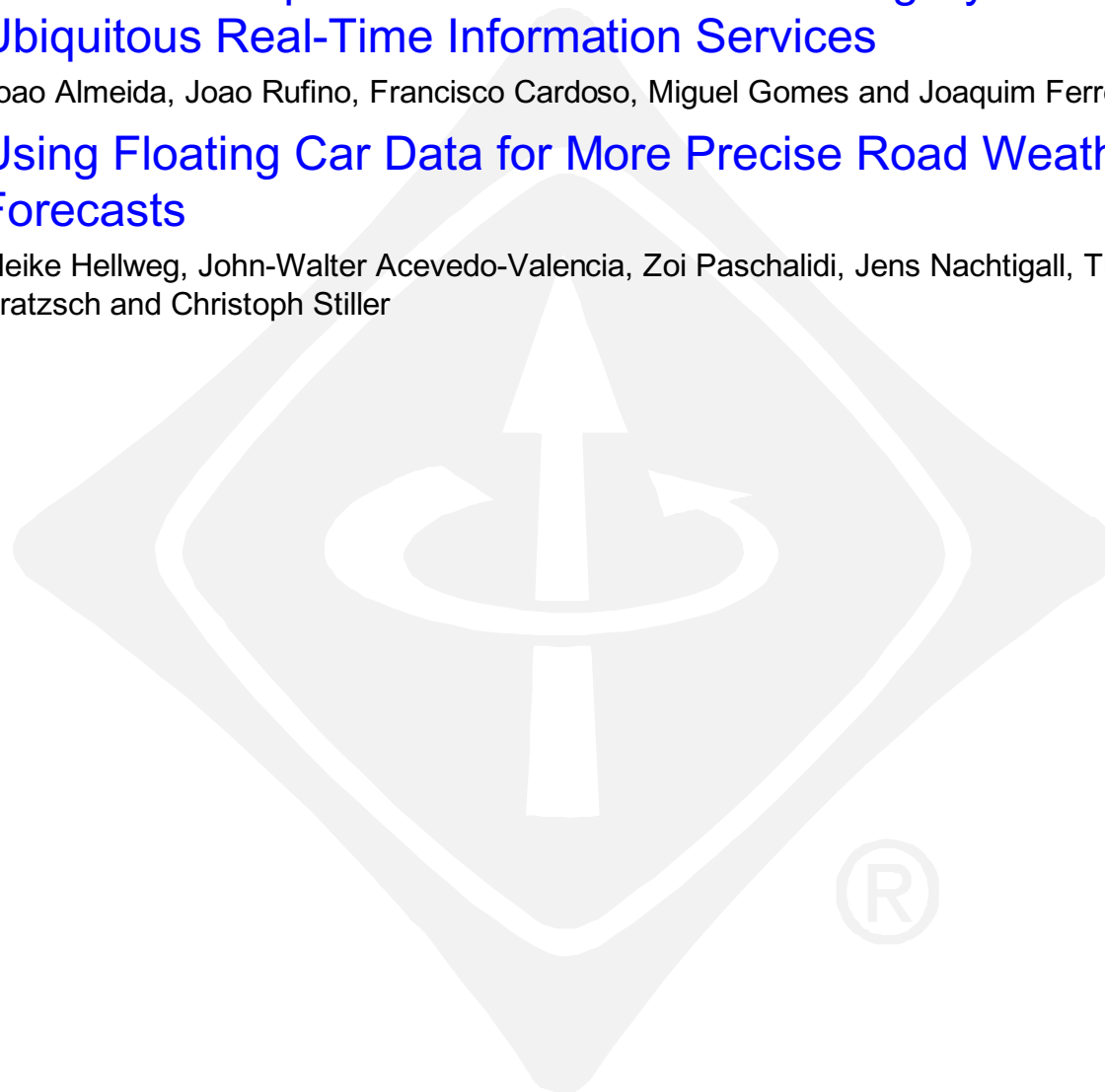
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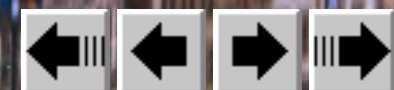
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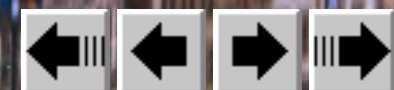
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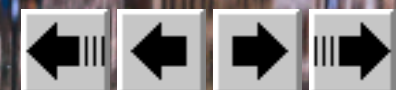
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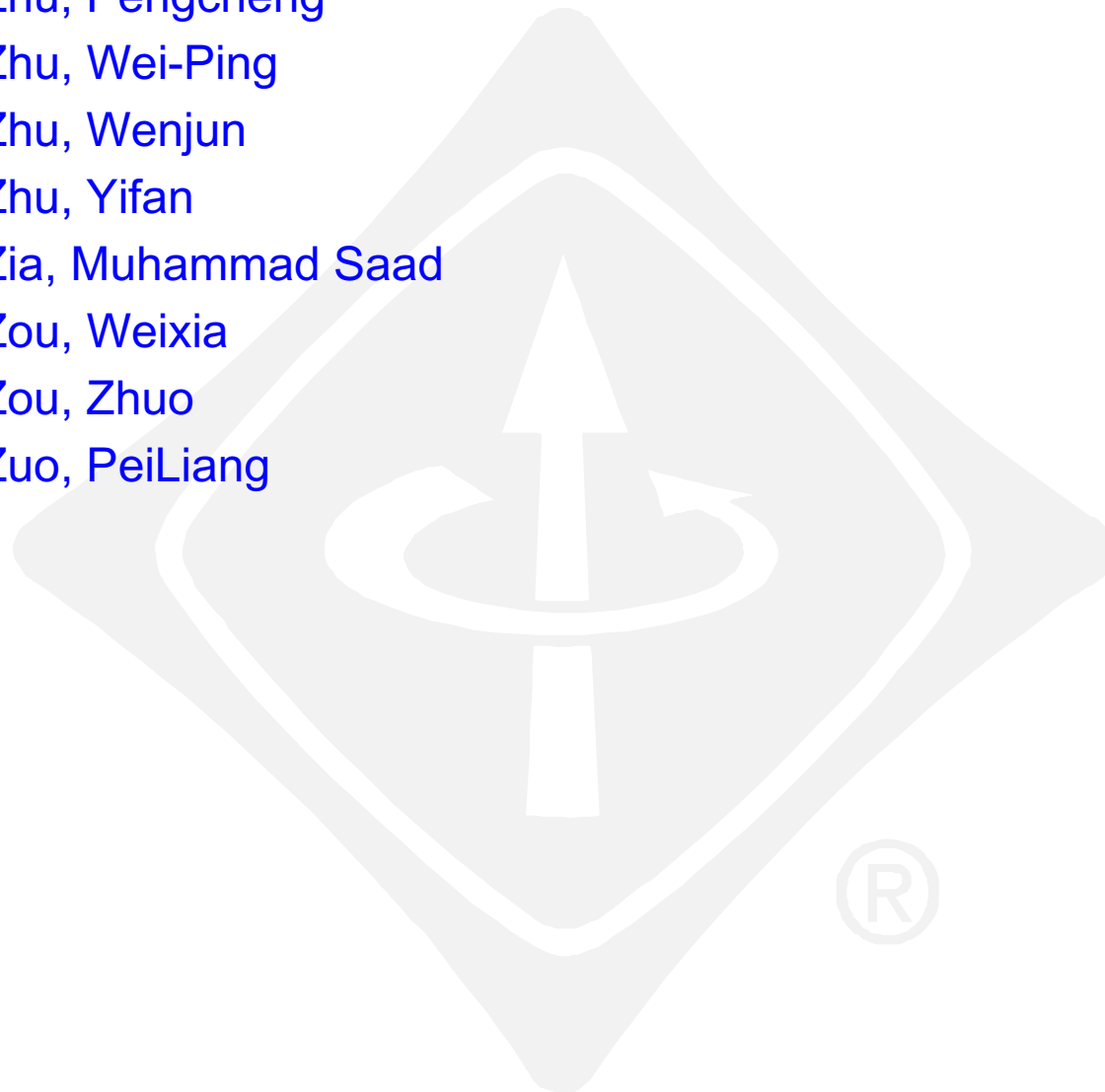
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