
Proposal for a workshop on Safe Control at ICRA'21 in conjunction with Technical Committee for Verification of Autonomous Systems

3 messages

Shumon Koga <skoga@eng.ucsd.edu>

Tue, Nov 10, 2020 at 4:31 PM

To: dejanira.araiza.i@gmail.com

Cc: Vikas Dhiman <vdhiman@eng.ucsd.edu>, Nikolay Atanasov <natanasov@eng.ucsd.edu>

Dear Dejanira,

I hope you and your family are well in these challenging times.

We are reaching out to you in your capacity as the Chair of Technical Committee for Verification of Autonomous Systems. As you might be aware that ICRA'21 workshop proposals need "a brief (one sentence) statement of support from a TC chair."^[1]

We are proposing a workshop on "[Safe Robot Control with Learned Motion and Environment Models](#)" **during ICRA'21 in Xi'an, China, May 30 - June 5, 2021**. The goal of the workshop is to bring together researchers from robotics, control theory, and machine learning to examine the challenges and opportunities in guaranteeing safety and stability for robot systems with uncertain or learned dynamics models operating in a priori unknown environments. We already have an interesting line of speakers that have agreed to present their work at the workshop. You can find more details in the attached call for papers.

We believe the goals of our workshop align well with the goals of the Technical committee because both are aiming design tools for autonomous safety and task achievement of robots. Furthermore, both aim to bring together the same research fields: (1) control theory and (2) the field that deals with "testing, modeling and simulating autonomous systems" where our workshop's focus is on methods that use machine learning.

We will be grateful if you could provide us with a statement of support for our workshop. It would be best if you could respond with your decision by the deadline for workshop proposals i.e. Nov 15th.

Thank you for your consideration!

Best regards,

Shumon Koga, Postdoc, University of California San Diego

Vikas Dhiman, Postdoc, University of California San Diego

Nikolay Atanasov, Assistant Professor, University of California San Diego

Workshop website: <https://vikasdhiman.info/safe-control-icra21/>



ICRA21 Workshop draft proposal.pdf

52K

Dejanira Araiza Illan <dejanira.araiza.i@gmail.com>

Thu, Nov 12, 2020 at 6:10 AM

To: Shumon Koga <skoga@eng.ucsd.edu>

Cc: Vikas Dhiman <vdhiman@eng.ucsd.edu>, Nikolay Atanasov <natanasov@eng.ucsd.edu>, Michael Fisher

<michael.fisher@manchester.ac.uk>, Signe Redfield <signeredfield@gmail.com>

Dear Shumon, Vikas and Nikolay,

The IEEE Robotics and Autonomous Systems Technical Committee on Verification of Autonomous Systems supports the proposed ICRA 2021 workshop on "Safe Robot Control with Learned Motion and Environment Models", as we

believe the topics covered in the workshop are of great interest to the community.

Best regards,

Signe Redfield, Michael Fisher and Dejanira Araiza-Illan
Co-Chairs of the IEEE RAS TC on Verification of Autonomous Systems

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Dejanira Araiza Illan

Shumon Koga <skoga@eng.ucsd.edu>

Thu, Nov 12, 2020 at 10:27 AM

To: Dejanira Araiza Illan <dejanira.araiza.i@gmail.com>

Cc: Vikas Dhiman <vdhiman@eng.ucsd.edu>, Nikolay Atanasov <natanasov@eng.ucsd.edu>, Michael Fisher <michael.fisher@manchester.ac.uk>, Signe Redfield <signeredfield@gmail.com>

Dear Co-Chairs of TC on Verification of Autonomous Systems,

We appreciate your kind support for our proposed workshop much. We will mention it in our proposal for ICRA workshop.

Best Regards,
Shumon Koga, Vikas Dhiman, Nikolay Atanasov

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