

# Differential Games

## Stony Brook Workshop

### 31st Stony Brook International Conference on Game Theory

July 27 - 28, 2020

Organizers: [Ovanes Petrosian](#) (Saint-Petersburg State University)

## Schedule of Talks

Monday July 27

|               |                                                                                                                                                                                                   |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10:00 – 10:20 | <b>Opening Remarks</b>                                                                                                                                                                            |
| 10:20 – 11:00 | <b>Special presentation: <a href="#">Tamer Başar</a></b><br>University of Illinois<br><i>“Mean Field Differential Games”</i>                                                                      |
| 11:00 – 11:20 | <b>Discussion</b>                                                                                                                                                                                 |
| 11:20 – 11:40 | <b><a href="#">David Yeung</a></b><br>Hong Kong Shue Yan University<br><i>“A Dynamic Network Game of Trade Augmentation under Technology Spillover”</i><br>(joint work with Cynthia Zhang)        |
| 11:40 – 12:00 | <b><a href="#">Jacob Engwerda</a></b><br>Tilburg University<br><i>“Mini-max robust control in LQ-differential games”</i>                                                                          |
| 12:00 – 13:00 | <b>Lunch Break</b>                                                                                                                                                                                |
| 13:00 – 13:20 | <b>Utsav Sadana</b><br>HEC Montréal<br><i>“Nash equilibria in nonzero-sum differential games with impulse controls”</i><br>(joint work with <a href="#">Georges Zaccour</a> and Viswanadha Reddy) |
| 13:20 – 13:40 | <b><a href="#">Ovanes Petrosian</a></b><br>Saint-Petersburg State University<br><i>“Non-autonomous Linear Quadratic Differential Games with Continuous Updating and Convergence Results”</i>      |

Time Zone: New York (UTC – 4h)

## Tuesday July 28

|               |                                                                                                                                                                                                                                                                                                                               |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10:00 – 10:20 | <p><a href="#">Ekaterina Gromova</a><br/>Saint-Petersburg State University<br/><i>“Differential games with network structure in marketing”</i><br/>(joint work with Anastasiia Malakhova)</p>                                                                                                                                 |
| 10:20 – 10:40 | <p><b>Discussion</b></p>                                                                                                                                                                                                                                                                                                      |
| 10:40 – 11:00 | <p><b>Nikolay A. Krasovskii</b><br/>Krasovsky Institute of Mathematics and Mechanics, Russian Academy of Sciences<br/><i>“Mechanisms for Dynamic Shifting of Antagonistic Equilibria to Cooperative Solutions”</i><br/>(joint work with <a href="#">Alexander M. Tarasyev</a>)</p>                                            |
| 11:00 – 11:20 | <p><a href="#">José Daniel López-Barrientos</a><br/>Universidad Anáhuac México<br/><i>“Optimal control for diffusion processes with Markovian switching modelled as a differential game against nature: the average criterion”</i><br/>(joint with <b>Beatris Adriana Escobedo-Trujillo, Carmen Geraldí Higuera-Chan</b>)</p> |
| 11:20 – 11:40 | <p><b>Discussion</b></p>                                                                                                                                                                                                                                                                                                      |
| 11:40 – 12:00 | <p><a href="#">Anna Rettieva</a><br/>Institute of Applied Mathematical Research, Russian Academy of Sciences<br/><i>“Dynamic Multicriteria Games with Asymmetric Players”</i></p>                                                                                                                                             |
| 12:00 – 13:00 | <p><b>Lunch Break</b></p>                                                                                                                                                                                                                                                                                                     |
| 13:00 – 13:20 | <p><a href="#">Jesús Marín-Solano</a><br/>Universitat de Barcelona<br/><i>“Differential games with nonconstant discounting and different commitments”</i><br/>(joint work with Guiomar Martín-Herrán)</p>                                                                                                                     |
| 13:20 – 13:40 | <p><a href="#">Anna Tur</a><br/>Saint-Petersburg State University<br/><i>“Hamilton-Jacobi-Bellman equations for Cooperative Differential Games with Continuous Updating”</i></p>                                                                                                                                              |
| 13:40 – 14:00 | <p><b>Final discussion</b></p>                                                                                                                                                                                                                                                                                                |

Time Zone: New York (UTC – 4h)