

סמינריון

הנדך מוזמן/ת להרצאה סמינריונית של הפקולטה להנדסת מכונות שתתקיים ביום ה' 13.05.21

(ב' באייר, תשפ"א), בשעה 13:00 באמצעות הזום :

<https://technion.zoom.us/j/94095413060>

מרצה : מאור ברקסמאיר

מנחה : פרופ' לאוניד מירקין

על הנושא :

Control with Intermittent Communication

The seminar will be given in English

תקציר ההרצאה :

Analysis and design of sampled-data systems with intermittent feedback is motivated by the contemporary trend to distribute information processing in many networked control applications. In this seminar I will present my research on the stabilization, optimization and implementation of discrete (or discretized) linear systems with intermittent, unknown a priori information exchange between sensor- and actuator-side parts of the controller. The talk will be focused on the following results:

- stabilization in intermittent systems with constrained analog-to-digital and digital-to-analog conversion mechanisms
- optimal H_2 and H_∞ intermittent controllers
- implementation architecture over unreliable networks
- effects of the variability of the sampling rate on the attainable optimal cost

The derived results are nonconservative, computationally simple, digitally implementable and transparent. Furthermore, these results offer a valuable insight into control over communication networks.

בברכה,

פ"פ מ"ח אתי סאס

מרכז הסמינרים