

Registration form

Name:
Affiliation:
Address:
E-mail:
Phone:
Supervisor (for students):

Registration rates

Regular:
early (until April 7, 2024) ILS 530
late (after April 7, 2024) ILS 590
Student (full-time graduate students only):
early (until April 7, 2024) ILS 280
late (after April 7, 2024) ILS 330

Method of payment

Wire transfer, bank requisites:
– beneficiary: איגוד ישראלי לבקרה אוטומטית
– bank: Leumi (10)
– branch: 705
– account: 13186472
Charge to institutional account
On-site payment (cash or checks only)

Filled registration forms are to be e-mailed to

mira.aran.iaac@gmail.com

with a proof of transfer, if applicable

טופס הרשמה

שם:
מקום עבודה:
כתובת:
דוא"ל:
טלפון:
מנחה (עבור סטודנטים):

דמי הרשמה

רישום מלא:
מוקדם (עד 7 באפריל 2024) ₪ 530
מאוחר (לאחר 7 באפריל 2024) ₪ 590
רישום סטודנט (סטו' לתארים מתקדמים בזמן מלא בלבד):
מוקדם (עד 7 באפריל 2024) ₪ 280
מאוחר (לאחר 7 באפריל 2024) ₪ 330

אמצעי תשלום

העברה בנקאית, פרטי הבנק:
– מוטב: איגוד ישראלי לבקרה אוטומטית
– בנק: לאומי (10)
– סניף: 705
– חשבון: 13186472
לחיוב תקציב מוסדי שמספרו
תשלום במקום (המחאה או מזומן בלבד)

את הטופס יש לשלוח לכתובת הדוא"ל

mira.aran.iaac@gmail.com

עם אישור העברה, אם רלוונטי



National Member Organization of IFAC and IAIN

Invitation to IAAC workshop

Perspectives on Multi-Agent Systems

to be held in VERT Lagoon, Netanya
on Monday, April 15, 2024 (Nisan 7, 5784)

Organizers: Daniel Zelazo (Technion)
Alfred M. Bruckstein (Technion)
Kiril Solovey (Technion)

We are grateful to the organizations below, whose support makes holding
IAAC events possible

— Applied Materials Israel Ltd. —
— Cielo Inertial Solutions Ltd. —
— Elbit Systems Ltd. —
— RAFAEL—Advanced Defense Systems Ltd. —

Foreword

פתח דבר

Multi-agent systems (MAS) are a field of study that deals with a group of autonomous agents, each capable of making independent decisions and interacting with each other and the environment, to achieve a common goal or task. The notion of an “agent” has different meanings across different communities. It may represent an autonomous vehicle, a robot, a software agents, or a human. More abstractly it can be represented as a dynamical system defined by differential equations or any other entity capable of computation or action. The diversity of interpretations regarding the very definition of an agent has resulted in the emergence of thriving research directions across different communities. The purpose of this workshop is to highlight this diversity by presenting recent results in the study of multi-agent systems from three different research communities: systems and control, robotics, and computer science. An equally important goal of this workshop is to discover overlaps between these communities arising from shared mathematical tools used to tackle the modeling and design aspects of MAS. Topics covered in this workshop include synchronization and consensus among dynamical systems, decision making and path planning algorithms for multi-robot systems and swarms, and software systems for multi-agent networks.

Daniel Zelazo (Technion) Workshop Organizers
Alfred M. Bruckstein (Technion)
Kiril Solovey (Technion)

Program

תכנית

08:15–09:00	Registration (breakfast will be served in the dining room, entrance floor)
08:55–09:00	Opening remarks
09:00–09:15	<i>Multi-Agent Systems: 3 Different Perspectives</i> <u>Daniel Zelazo</u> , Alfred M. Bruckstein, Kiril Solovey (Technion)
9:15–10:00	<i>Control and Decision-making of Smart-Mobility Systems</i> <u>Kiril Solovey</u> (Technion)
10:00–10:45	<i>Multi-Agent Path Finding: New Analysis, Problem Variants and Algorithms</i> <u>Oren Salzman</u> (Technion)
10:45–11:15	Coffee / tea break
11:15–12:00	<i>Passivity, Monotonicity, and Network Optimization: New Perspectives for Network Systems Analysis</i> Mathias Bürger (Bosch), Miel Sharf (Jether Energy), <u>Daniel Zelazo</u> (Technion)
12:00–12:45	<i>Internal Stability of Diffusively Coupled Networks</i> Gal Barkai, <u>Leonid Mirkin</u> , Daniel Zelazo (Technion)
12:45–14:15	Lunch break
14:15–15:00	<i>Online Learning for Admission Control of Networked Open Multiagent Systems</i> <u>Ilai Bistritz</u> (Tel Aviv University)
15:00–15:30	Coffee / tea break
15:30–16:15	<i>Broadcast Control and Distributed, Decentralized Target Assignment for Autonomous Swarms</i> <u>Alfred M. Bruckstein</u> (Technion)
16:15–17:00	<i>From Ant Alate to ROS Alate : Software Systems for Swarming Applications</i> <u>Dave Dovrat</u> (Technion)
17:00	Closing