

ICRoM 2020 Session Lists

Control Theories and Applications			
Session Chairs : Prof. Hassan Sayyaadi, Prof. Amir Hossein Davaie-Markazi			
Day: Thursday Nov 19 Time: 11:00-12:30 Room: 1			
	Title	Authors	Time
1	Control of Inverted Pendulum: A comparative study on sliding mode approaches	Farbood Shokouhi, Amir Hossein Davaie-Markazi <i>Iran University of Science & Tech</i>	11:00- 11:30
2	Adaptive Backstepping Sliding Mode control of single Link Flexible Manipulator in Presence of State constraint and nonlinear observer	Hassan Sayyaadi, Mahdi Hejrati <i>Sharif University of Technology</i>	11:30- 11:50
3	Control of Orbit and Attitude using Coupled Orbital and Attitude Dynamics for GEO Satellite	Amirreza Kosari, Alireza Akbar Attar, Peyman Nikpey <i>University of Tehran</i>	11:50- 12:10
4	Back-stepping control of a quadcopter: A comparison between two different methods of gain tuning	Mahdi Mirhadi, Zahra Goorkani Zarandi, Iman Zaman, Ehsan. Sadeghi Ghasemabad <i>Kharazmi University</i>	12:10- 12:30

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Humanoid and Biomedical Systems			
Session Chairs : Prof. Hassan Zohoor, Prof. Ali Meghdari			
Day: Thursday Nov 19		Time: 11:00-12:20	Room: 2
	Title	Authors	Time
1	Design of a Two-Mass Multi-Modal Walking and Jumping Robot	Ali Zouelm, Hassan Zohoor, Famida Fallah <i>Sharif University of Technology</i>	11:00- 11:20
2	Proposing an Empirical Motion-Time Pattern of Human Gaze Behaviors in a Social Situation	Mohammad Hossein Mashaghi, Alireza Taheri, Saeed Behzadipour, Mehrdad Boroushaki <i>Sharif University of Technology</i>	11:20- 11:40
3	Can Learning from Demonstration Reproduce Natural and Understandable Movements?	Amirreza Razmjoo Fard, Alireza Taheri, Ali Meghdari <i>Sharif University of Technology</i>	11:40- 12:00
4	Dynamic Modeling of the Cancer Cell Mutation with the Capability of Control Using Chemotropic Injection	Zahra. Goorkani Zarandi, ZakiyehFarbodei, HamiTourajizadeh, Ehsan Sadeghi Ghasemabad <i>Kharazmi University</i>	12:00- 12:20

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Robotics and Mechatronics Systems Session Chairs : Dr. Ali Sadighi, Dr. S. Khodaygan Day: Thursday Nov 19 Time: 11:00-12:20 Room: 3			
	Title	Authors	Time
1	Design and impedance control of a hydraulic robot for paralyzed people	Alireza Abbasimoshaei, Tobias Stein, Tom Rothe, Thorsten A. Kern <i>Hamburg University of Technology</i>	11:00- 11:20
2	A new path smoothing method based on RRT* for non-holonomic mobile robots	S. A. Eshtehardian, S. Khodaygan <i>Sharif University of Technology</i>	11:20- 11:40
3	Optimal Design of a Cylindrical Voice Coil Actuator Based on Non-Dominated Sorting Genetic Algorithm-II	Suorena Saeedim, Ali Sadighi, Masoud Shariat Panahi <i>University of Tehran</i>	11:40- 12:00
4	Smart Fault Detection of Reciprocating Air Compressors Based on Electrical Signature Analysis	Armin Toroghi, Ali Sadighi <i>University of Tehran</i>	12:00- 12:20