

**SICE International Symposium on Control Systems 2021**

March 2-4, 2021. Online Symposium

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**System Modeling and Control**

Regular Session

Chair:

**March 2nd, 10:30-12:10**

Co-Chair:

#	Subslot	Number	Type of presentation	Title	Authors
1		19		<a href="#">SARSA(0) Reinforcement Learning Over Fully Homomorphic Encryption</a> (Regular Paper)	Suh, Jihoon (The University of Texas at Austin) 111627 Tanaka, Takashi (University of Texas at Austin) 42222
2		4		<a href="#">Modeling of Flow Rate Variation of Tube Pumps</a> (Position Paper)	Yang, Jinhui (Okayama University) 110899 Hirata, Kentaro (Okayama University) 13665 Nakamura, Yukinori (Okayama University) 72332 Okano, Kuniyoshi (Okayama University) 40255 Kato, Kenichi (National Institute of Technology, Matsue College) 110904
3		11		<a href="#">Learning Dynamic Systems Using Gaussian Process Regression with Prior Information Given by Analytic Models</a> (Position Paper)	Tang, Shengbing (Kyoto University) 111779 Fujimoto, Kenji (Kyoto University) 13155 Maruta, Ichiro (Kyoto University) 18061
4		6		<a href="#">Pre-Evaluation for Experimental Verification of Attitude Control of a Spacecraft with Double-Gimbal Variable-Speed Control Moment Gyro</a> (Position Paper)	Hayashida, Futa (Osaka Prefecture University) 111267 Kanata, Sayaka (Osaka Prefecture University) 58379 Shimomura, Takashi (Osaka Prefecture University) 25926
5		17		<a href="#">Path Tracking of Non-Holonomic Mobile Robot Using Event-Triggered Control in Presence of Time and State-Dependent Uncertainties</a> (Regular Paper)	singh, padmini (iit kanpur) 111528 Yogi, Subhash Chand (Indian Institute of Technology - Kanpur) 102602 Behera, Laxmidhar (Indian Institute of Technology Kanpur) 47313 verma, nishchal kumar (INDIAN INSTITUTE OF TECHNOLOGY, KANPUR) 52323

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**Network Control Systems****March 2nd, 14:20-16:00**

Regular Session

Chair:

Co-Chair:

#	Subslot	Number	Type of presentation	Title	Authors
1		10		<a href="#">Distributed Event-Triggered Control for Discrete-Time Multi-Agent Average Consensus</a> (Position Paper)	Mishra, Rajiv Kumar (Tokyo Institute of Technology) 59639 Ishii, Hideaki (Tokyo Institute of Technology) 13857
2		18		<a href="#">Two-Player Rolling Horizon Games for Jamming Attacks on Multiagent Systems</a> (Position Paper)	Nugraha, Yurid (Tokyo Institute of Technology) 95740 Cetinkaya, Ahmet (National Institute of Informatics) 60603 Hayakawa, Tomohisa (Tokyo Institute of Technology) 13582 Ishii, Hideaki (Tokyo Institute of Technology) 13857 Zhu, Quanyan (New York University) 41587
3		13		<a href="#">Leader-Following Coordination of Heterogeneous Multi-Agent Systems Via Displacement Feedback</a> (Regular Paper)	Pietrasanta, Rodolfo (Politecnico di Torino) 111800 Capello, Elisa (Politecnico di Torino) 44888 Fujisaki, Yasumasa (Osaka Univ.) 13158
4		14		<a href="#">Remote Fault Filtering and Control for a Networked Control System with Unreliable Sensors</a> (Position Paper)	Lee, Ching-Min (I-Shou University) 52038 Jheng, Siang (I-Shou University) 112351 Lee, Yi-Chen (I-Shou University) 112358

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**Nonlinear Control Systems**

Regular Session

Chair:

**March 3rd, 10:30-12:30**

Co-Chair:

#	Subslot	Number	Type of presentation	Title	Authors
1		8		<a href="#">Estimation of Fall History by Plantar Pressure During Walking Based on Auto Encoder and Principal Component Analysis</a> (Regular Paper)	Kawada, Midori (Ochanomizu University) 111462 Nakajima, Kanako (National Institute of Advanced Industrial Science and Technology) 111466 Sashima, Akio (National Institute of Advanced Industrial Science and Technology) 111467 Ohta, Yuji (Ochanomizu University) 57970 Kurumatani, Koichi (National Institute of Advanced Industrial Science and Technology) 111465
2		9		<a href="#">Complex Obstacle Avoidance Control for a Mobile Robot Using Nonsmooth Control Barrier Function</a> (Position Paper)	Saito, Masayuki (Tokyo University of Science) 111469 Tezuka, Issei (Tokyo University of Science) 108126 Nakamura, Hisakazu (Tokyo University of Science) 15304
3		16		<a href="#">Human Assist Control of Electric Wheelchair by Using Control Barrier Function</a> (Position Paper)	Yamashita, Yudai (Tokyo University of Science) 111899 Sano, Tsubasa (Tokyo University of Science) 108122 Nakamura, Hisakazu (Tokyo University of Science) 15304
4		7		<a href="#">Safe Control with Control Barrier Function for Euler-Lagrange Systems Facing Position Constraint</a> (Regular Paper)	Farras, Aditya Wildan (Tokyo Institute of Technology) 86933 Hatanaka, Takeshi (Osaka University) 24799
5		3		<a href="#">Deep Unfolding-Based Output Feedback Control Design for Linear Systems with Input Saturation</a> (Regular Paper)	Kobayashi, Koki (Nara Institute of Science and Technology) 110979 Ogura, Masaki (Osaka University) 25605 Kobayashi, Taisuke (Nara Institute of Science and Technology) 47248 Sugimoto, Kenji (Nara Inst. of Science and Technology) 16711

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**Linear Control Theory**

Regular Session

Chair:

**March 3rd, 13:30-15:30**

Co-Chair:

#	Subslot	Number	Type of presentation	Title	Authors
1		15	<input checked="" type="checkbox"/>	<a href="#">Impossibility Results for Stochastic Constrained Control</a> (Position Paper)	Cetinkaya, Ahmet (National Institute of Informatics) 60603 Kishida, Masako (National Institute of Informatics) 22333
2		12		<a href="#">Robust Instability Radius for Multi-Agent Dynamical Systems with Cyclic Structure</a> (Position Paper)	Hara, Shinji (The University of Tokyo) 13545 Iwasaki, Tetsuya (UCLA) 13870 Hori, Yutaka (Keio University) 25658
3		5		<a href="#">Blade Pitch Controller Design Based on Model Reference Adaptive Control for Floating Offshore Wind Turbines</a> (Position Paper)	Yu, Meijiao (Osaka Prefecture University) 111196 Hara, Naoyuki (Osaka Prefecture University) 32619 Konishi, Keiji (Osaka Prefecture University) 23605
4		21		<a href="#">A GPS Measurement-Based Map Conversion Scheme for Railway Synchronization Control under Moving Block Signalling</a> (Regular Paper)	Tamba, Tua Agustinus (Parahyangan Catholic University) 53865 Nazaruddin, Yul Yunazwin (Institut Teknologi Bandung) 15330
5		22		<a href="#">A PSO-Based Moving Target Defense Control Optimization Scheme</a> (Regular Paper)	Tamba, Tua Agustinus (Parahyangan Catholic University) 53865

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