Program Overview

December 5, 2018 (Wednesday)
18:00-20:00 Welcome Reception at ANA Crowne Plaza Toyama

December 6, 2018 (Thursday)
8:50-9:20 Opening Ceremony
9:20-10:20 Plenary Talk by Prof. Yutaka Hata
10:40-12:00 Parallel Sessions
13:00-14:20 Parallel Sessions
14:40-16:00 Parallel Sessions
16:20-18:20 Parallel Sessions

December 7, 2018 (Friday)
9:00-10:00 Plenary Talk by Prof. Bernard De Baets
10:20-12:00 Parallel Sessions
13:00-14:20 Parallel Sessions
14:40-15:40 Poster Session
16:00-18:00 Parallel Sessions
19:00-21:00 Banquet & Award Ceremony at Hotel Grand Terrace Toyama

December 8, 2018 (Saturday)
9:00-10:00 Plenary Talk by Prof. Byung-Jae Choi
10:20-12:20 Parallel Sessions

December 6 (Thursday)

Time	Room 1 (201)	Room 2 (202)	Room 3 (203)	Room 4 (204)	Room 5 (205)	Room 6 (206)	Room 7 (Room S)
8:50	Opening Ceremony						
9:20	Plenary Talk 1 Prof. Yutaka Hata "How Information Technology helps Clinical Practice ?" Chair: Prof. Noboru Takagi						
10:20	Break						
10:40	**Th1-1** OS: Soft Computing in Urban and Transport Planning (1) 4 papers	**Th2-1** OS: Rough Sets, Granular Computing and Their Applications 3 papers	**Th3-1** GS: Visualization 4 papers	**Th4-1** OS: Human Symbiotic Systems (1) 4 papers	**Th5-1** OS: Intelligent Machine Learning Algorithm (1) 4 papers	**Th6-1** OS: Bio-inspired Optimization, Optimization Including Human Factors, and Artificial Life (1) 3 papers	**Th7-1** GS: Data Mining (1) 4 papers
12:00	Lunch Break						
13:00	**Th1-2** OS: Soft Computing in Urban and Transport Planning (2) 4 papers	**Th2-2** OS: Classification and Pattern Recognition using Machine Learning (1) 4 papers	**Th3-2** OS: Computing in Biomedical Engineering (1) 4 papers	**Th4-2** OS: Human Symbiotic Systems (2) 4 papers	**Th5-2** OS: Intelligent Machine Learning Algorithm (2) 4 papers	**Th6-2** OS: Bio-inspired Optimization, Optimization Including Human Factors, and Artificial Life (2) 3 papers GS: Bio-Inspire Model (1) 1 paper	**Th7-2** OS: Soft Computing Techniques for Computer Vision (1) 4 papers
14:20	Break						
14:40	**Th1-3** OS: Soft Computing in Urban and Transport Planning (3) 3 papers GS: Intelligent Transportation Systems (1) 1 paper	**Th2-3** OS: Classification and Pattern Recognition using Machine Learning (2) 4 papers	**Th3-3** OS: Computing in Biomedical Engineering (2) 4 papers	**Th4-3** GS: Intelligent Systems 4 papers	**Th5-3** GS: Complex Systems, Distributed Systems 4 papers	**Th6-3** OS: Intelligence Infrastructure for Data Mining 3 papers GS: Data Mining (2) 1 paper	**Th7-3** OS: Soft Computing Techniques for Computer Vision (2) 4 papers
16:00	Break						
16:20	**Th1-4** GS: Bio-Inspire Model (2), Evolutionary Computing 6 papers	**Th2-4** S-OS: A Tribute to Professor Lotfi A. Zadeh: From Perfection to Perception Based Modeling -A Grand Paradigm Shift 5 papers	**Th3-4** OS: IT Convergence Applications 6 papers	**Th4-4** OS: Affective Engineering and its Interactive Approach 6 papers	**Th5-4** GS: Fuzzy Control, Fuzzy Sets and Logic, Fuzzy Systems 6 papers	**Th6-4** GS: Machine Learning (1) 6 papers	**Th7-4** OS: Recent Trends of Clustering Methodologies (1) 5 papers GS: Decision Making and Risk Management (1) 1 paper
18:20							

December 7 (Friday)							
Time	Room 1 (201)	Room 2 (202)	Room 3 (203)	Room 4 (204)	Room 5 (205)	Room 6 (206)	Room 7 (Room S)
9:00	Plenary Talk 2 Prof. Bernard De Baets "The role of monotonicity in data science" Chair: Prof. Yusuke Nojima						
10:00	Break						
10:20	Fr1-1 OS: Human centric industrial and consumer applications 5 papers	Fr2-1 OS: Classification and Pattern Recognition using Machine Learning (3) 4 papers	Fr3-1 OS: Intelligent Systems for Robotics and Vehicles 5 papers	Fr4-1 OS: Soft computing on an embedded system 4 papers GS: Education and Training 1 paper	Fr5-1 OS:Sensing and Bio-Application 5 papers	Fr6-1 GS: Kansei Engineering, Artificial Intelligence 5 papers	Fr7-1 OS: Recent Trends of Clustering Methodologies (2) 5 papers
12:00	Lunch Break						
13:00	Fr1-2 OS: Intelligent Support System with AI and IoT Technologies (1) 4 papers	Fr2-2 OS: Classification and Pattern Recognition using Machine Learning (4) 3 papers	Fr3-2 OS: Application to Managerial Decision Making 4 papers	Fr4-2 OS: Neuroscience & Bioinformatics (1) 4 papers	Fr5-2 OS: Image tracking and load estimation 4 papers	Fr6-2 OS: Basic and Application of Bio-information 3 papers	Fr7-2 GS: Human-Computer Interaction and Interface (1) 4 papers
14:20	Break						
14:40	Poster Session & OS: Human factors and ergonomics (4 papers) @ 3F Foyer Coordinator: Hiromi Ban (Nagaoka University of Technology, Japan)						
15:40	Break						
16:00	Fr1-3 OS: Intelligent Support System with AI and IoT Technologies (2) 5 papers	Fr2-3 OS: Robot Integration System for Symbiosis with human (1) 4 papers GS: Robotics (1) 2 papers	Fr3-3 OS: Advanced Biomedical Engineering and Human Assistive Technology (1) 4 papers GS: Biometrics 2 papers	Fr4-3 OS: Neuroscience & Bioinformatics (2) 6 papers	Fr5-3 GS: Modeling and Simulation, Vision and Sensors 5 papers	Fr6-3 GS: Machine Learning (2), Pattern Recognition 4 papers	Fr7-3 OS: Human Symbiotic Systems (3) 4 papers GS: Human-Computer Interaction and Interface (2) 2 papers
18:00							
19:00	Banquet @ Hotel Grand Terrace Toyama						

Time	Room 1 (201)	Room 2 (202)	Room 3 (203)	Room 4 (204)	Room 5 (205)	Room 6 (206)	Room 7 (Room S)
	December 8 (Saturday)						
9:00	**Plenary Talk 3** **Prof. Byung-Jae Choi "Design of Simple Structured Fuzzy Logic Control Systems and Their Applications"** **Chair: Prof. Young Im Cho**						
10:00	**Break**						
10:20	**Sa1-1** **GS: Social Systems, Multi-Agent Systems** **6 papers**	**Sa2-1** **OS: Robot Integration System for Symbiosis with human (2)** **3 papers** **GS: Robotics (2)** **2 papers**	**Sa3-1** **OS: Advanced Biomedical Engineering and Human Assistive Technology (2)** **3 papers** **GS: Brain Science** **2 papers**	**Sa4-1** **GS: Decision Making and Risk Management (2)** **5 papers**	**Sa5-1** **GS: Computational Intelligence, Machine Learning (3)** **4 papers**	**Sa6-1** **GS: Data Mining (3), Cognitive Science** **6 papers**	
12:20							