

## Program at Glance

### Tuesday, 27 June 2017

16:00-16:20	16:30-18:00	18:30-20:00	19:40-21:00
<b>School @ Room 204</b> Opening Remarks & Guidance & Introduction	<b>School @ Room 204</b> Class 1: L. T. Koczy	<b>Reception @ Meeting Hall</b>	<b>School @ Room 204</b> (*Re-start around 19:40-) Flush Talks of Students

### Wednesday Morning, 28 June 2017

9:00-9:20	9:20-10:20	10:20-10:40	10:40-12:00
<b>Welcome Address @ Piazza Hall</b>	<p style="text-align: center;"><b>Plenary Talk 1 @ Piazza Hall</b> Chair: Irene Diaz</p> <p>Pre-Aggregation Functions: Theory and Applications in Classification and Image Processing</p> <p style="text-align: center;">Prof. Humberto Bustince (Public University of Navarra)</p>	Coffee Break @ Meeting Hall	Room 203 Chair: Ivan Palomares Carrascosa <b>SS-02-1 Uncertainty Handling in Recommender and Decision Support Systems</b> 7, 68, 73, 79
			Room 204 Chair: Daniel Paternain <b>SS-13-1 Image Processing and Computer Vision using Fuzzy Techniques</b> 11, 51, 92, 156
			Room 205 Chair: Shun-Feng Su <b>SS-04-1 Fuzzy and Intelligent Systems</b> 9, 14, 16, 31
			Room 206 Chair: Isao Hayashi <b>SS-32-1 Brain Engineering for Soft Behavior</b> 140, 149, 153, 157
			Room 207 Chair: Susana Montes <b>SS-12 Probability with Fuzziness and Statistical Applications</b> 17, 139, 195
			Room 302 Chair: Takenori Obo <b>SS-17 Intelligent Robotics and Application for Healthcare</b> 23, 100, 103, 205
			Room 303 Chair: Kazuhiko Kawamoto <b>SS-21 Uncertain Dynamic State Estimation</b> 72, 162, 213, 232
			Room 304 Chair: Douglas Dow <b>P-1 Theory 1</b> 245, 269, 272, 291, 278
			Room 305 Chair: Pakizar Shamoj <b>P-2 Application 1</b> 289, 250, 84, 152, 128

### Wednesday Afternoon 1, 28 June 2017

13:00-14:00	14:00-14:20	14:20-16:00
<p style="text-align: center;"><b>Plenary Talk 2 @ Piazza Hall</b> Chair: Susana Montes</p> <p>Statistical Decision-Making in Mixed Models of Uncertainty</p> <p style="text-align: center;">Prof. Dan Ralescu (University of Cincinnati, USA)</p>	Coffee Break @ Meeting Hall	Room 203 Chair: Trevor Martin <b>SS-02-2 Uncertainty Handling in Recommender and Decision Support Systems</b> 174, 181, 200, 42
		Room 204 Chair: Aranzazu Jurio <b>SS-13-2 Image Processing and Computer Vision using Fuzzy Techniques</b> 183, 192, 194, 198, 244
		Room 205 Chair: Shun-Feng Su <b>SS-04-2 Fuzzy and Intelligent Systems</b> 34, 116, 133, 167, 173
		Room 206 Chair: Suguru N. Kudoh <b>SS-32-2 Brain Engineering for Soft Behavior</b> 203, 191 <b>SS-16 Fuzzy Robotic Systems</b> 125, 211, 212
		Room 207 Chair: Senaka Amarakeerthi <b>SS-09 Medical and Healthcare Engineering</b> 27, 126, 164 <b>SS-15 Cognitive Human-Computer Interaction</b> 226, 230
		Room 302 Chair: Luigi Troiano <b>SS-28 Fuzziness in Massive Data</b> 12, 123, 104, 241, 239
		Room 303 Chair: Weldon A. Lodwick <b>G-1 Methods</b> 59, 163, 62, 429, 114, 180
		Room 304 Chair: Ivan Palomares Carrascosa <b>G-2 Aggregation and Summarization</b> 87, 207, 35, 150, 231
		Room 305 Chair: Marek Reformat <b>P-3 Theory 2</b> 290, 261, 260, 279, 281

### Wednesday Afternoon 2, 28 June 2017

17:50-20:00	16:30-18:00	18:30-22:15
<b>Excursion (Optional)</b> Trip for Japanese Local Cuisine	<b>School @ Room 204</b> Class 2: Md. A. R. Ahad	<b>School @ Nagisa Terrace Colony</b> Dinner & Photo Session & Group Discussion

**Thursday Morning, 29 June 2017**

9:00-10:00	10:00-10:20	10:20-12:00
<p><b>Plenary Talk 3 @ Piazza Hall</b>  <i>Chair: Masafumi Hagiwara</i></p> <p>Knowing Sensitivity and Intelligence from the Viewpoint of System and Design</p> <p>Prof. Hisao Shiizuka          (Kogakuin University, Japan)</p>	<p>Coffee Break @ Meeting Hall</p>	<p><i>Room 203 Chair: Mikel Galar</i>  <b>SS-11-1 Soft Computing Techniques for Machine Learning</b> 48, 135, 144, 243, 30</p>
		<p><i>Room 204 Chair: Marek Reformat</i>  <b>SS-05-1 Robotic and Embedded Systems</b> 20, 21, 25, 69, 220</p>
		<p><i>Room 205 Chair: Irina Perfilieva</i>  <b>SS-27-1 F-transforms: Bridging Theory and Applications</b> 80, 86, 97, 107, 120</p>
		<p><i>Room 206 Chair: Katsuhiro Honda</i>  <b>SS-20-1 Recent Trends of Clustering Methodologies</b> 13, 50, 55, 93, 89</p>
		<p><i>Room 207 Chair: Humberto Bustince</i>  <b>SS-10-1 Aggregation Functions: Theory and Practice</b> 43, 71, 74, 108, 130</p>
		<p><i>Room 302 Chair: Weldon A. Lodwick</i>  <b>SS-01-1 Fuzzy Optimization and Decision Making: Theory, Algorithms, and Applications</b>            218, 39, 95, 47, 42</p>
		<p><i>Room 303 Chair: Tomonori Hashiyama</i>  <b>G-3 Infrastructure and Society</b> 1, 4, 109, 161, 129</p>
		<p><i>Room 304 Chair: Feliz Jimenez</i>  <b>P-4 Decision and Analysis</b> 98, 276, 265, 252</p>
		<p><i>Room 305 Chair: Koji Murai</i>  <b>P-5 Applications 2</b> 264, 154, 282, 225, 286</p>

**Thursday Afternoon 1, 29 June 2017**

13:00-14:40	14:40-15:00	15:00-16:20
<p><i>Room 203 Chair: Mikel Galar, Yoshiyuki Yabuuchi</i>  <b>SS-11-2 Soft Computing Techniques for Machine Learning</b> 124, 64  <b>SS-22 Application to Business</b> 44, 90, 102</p>	<p>Coffee Break @ Meeting Hall</p>	<p><b>Poster Session @ Meeting Hall</b>  <i>Chair: Junji Nishino</i></p> <p><b>Poster Session Core Time</b>            15:00-16:00</p> <p><b>Full Papers</b>            61, 131, 160</p> <p><b>Position Papers</b>            65, 105, 110, 142, 166, 206, 246, 247, 249, 259, 268, 275, 283, 284, 285, 286, 292, 248, 266</p> <p><b>Futuristic Event (Canceled)</b></p>
<p><i>Room 204 Chair: Vladik Kreinovich</i>  <b>SS-05-2 Robotic and Embedded Systems</b> 117, 118, 121, 132, 222</p>		
<p><i>Room 205 Chair: Vilem Novak, Byung-Jae Choi</i>  <b>SS-27-2 F-transforms: Bridging Theory and Applications</b> 146, 215  <b>SS-26 Theoretical Applications of Fuzzy Logic</b> 52, 144, 214</p>		
<p><i>Room 206 Chair: Jung Sik Jeong</i>  <b>SS-20-2 Recent Trends of Clustering Methodologies</b> 81, 147  <b>SS-25 Intelligent Systems and Applications</b> 54, 171</p>		
<p><i>Room 207 Chair: Javier Montero, Michal Baczynski</i>  <b>SS-10-2 Aggregation Functions: Theory and Practice</b> 137, 177  <b>SS-08 Fuzzy Implication Functions</b> 70, 179, 227</p>		
<p><i>Room 302 Chair: Weldon A. Lodwick</i>  <b>SS-01-2 Fuzzy Optimization and Decision Making: Theory, Algorithms, and Applications</b> 101, 141, 159, 204</p>		
<p><i>Room 303 Chair: Atsushi Inoue</i>  <b>G-4 Education and Networking</b> 36, 88, 134, 186, 238</p>		
<p><i>Room 304 Chair: Yusuke Nojima</i>  <b>P-6 Learning</b> 99, 115, 251, 270, 254, 280</p>		
<p><i>Room 305 Chair: Koji Murai</i>  <b>P-7 Applications 3</b> 158, 263, 210, 255</p>		

**Thursday Afternoon 2, 29 June 2017**

16:30-18:05	19:00-21:30
<p><b>School @ Room 204</b>            Class 3: T. Uchitane &amp; T. Murata  <b>Concluding Remarks: 18:00-18:05</b></p>	<p><b>Banquet @ ROYAL OAK HOTEL</b>  <b>ORCHID Basement Level 1</b></p>

**Friday, 30 June 2017**

9:20-11:00	11:00-11:20	11:20-12:20	12:20-12:40
<i>Room 203 Chair: Hiroshi Sato</i> <b>SS-31 Stochastic Optimization for Complex Adaptive Systems</b> 219, 223, 228, 229, 237	Coffee Break @ Meeting Hall	<b>Legend Lecture</b> @ Meeting Hall Chair: Dan Ralescu  Current Perspectives on Choquet Calculus  Prof. Michio Sugeno (Tokyo Institute of Technology, Japan)	<b>Award                      Ceremony</b> @ Meeting Hall  <b>Closing</b>
<i>Room 204 Chair: Tomohiro Yoshikawa</i> <b>SS-03 Human Symbiotic Systems</b> 53, 60, 106, 188, 190			
<i>Room 205 Chair: Jung-Sik Jeong Tadatsugi Okazaki</i> <b>SS-19 Human Centered Transportation Systems</b> 6, 19, 143, 197			
<i>Room 206 Chair: Shun-Feng Su</i> <b>G-5 Business</b> 26, 77, 83, 182, 233			
<i>Room 207 Chair: Vilem Novak</i> <b>P-8 Robots</b> 288, 262, 277, <del>281</del>			
<i>Room 302 Chair: Hirosato Seki</i> <b>G-6 Theory</b> 3, 168, 199, 235			
<i>Room 303 Chair: Masataka Tokumaru</i> <b>P-9 Applications 4</b> 253, 256, 267, 271, 287			

SS stands for a special session.

G stands for a general track.

P stands for a position paper track.

Full Paper Presentation: 20 min (including discussions)

Position Paper Presentation (its session ID begins with 'P-'): 15 min (including discussions)

Poster Presentation Core Time: 15:00-16:00, 29 June 2017.