

Program at Glance

Tuesday, 27 June 2017

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

Wednesday Morning, 28 June 2017

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

Wednesday Afternoon 1, 28 June 2017

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| 13:00-14:00 | 14:00-14:20 | 14:20-16:00 |
| Plenary Talk 2 @ Piazza Hall Chair: Susana Montes Statistical Decision-Making in Mixed Models of Uncertainty Prof. Dan Ralescu (University of Cincinnati, USA) | Coffee Break @ Meeting Hall | Room 203 Chair: Masahiro Inuiguchi SS-02-2 Uncertainty Handling in Recommender and Decision Support Systems 174, 181, 200 |
| | | Room 204 Chair: Aranzazu Jurio SS-13-2 Image Processing and Computer Vision using Fuzzy Techniques 183, 192, 194, 198, 244 |
| | | Room 205 Chair: Shun-Feng Su SS-04-2 Fuzzy and Intelligent Systems 34, 116, 133, 167, 173 |
| | | Room 206 Chair: Suguru N. Kudoh SS-32-2 Brain Engineering for Soft Behavior 203, 191 SS-16 Fuzzy Robotic Systems 125, 211, 212 |
| | | Room 207 Chair: Senaka Amarakeerthi SS-09 Medical and Healthcare Engineering 27, 126, 164 SS-15 Cognitive Human-Computer Interaction 226, 230 |
| | | Room 302 Chair: Luigi Troiano SS-28 Fuzziness in Massive Data 12, 123, 104, 241, 239 |
| | | Room 303 Chair: Weldon A. Lodwick G-1 Methods 59, 163, 62, 129, 180 |
| | | Room 304 Chair: Ivan Palomares Carrascosa G-2 Aggregation and Summarization 87, 207, 35, 150, 231 |
| | | Room 305 Chair: Marek Reformat P-3 Theory 2 290, 261, 260, 279 |

Wednesday Afternoon 2, 28 June 2017

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

Thursday Morning, 29 June 2017

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|---|------------------------------------|---|
| 9:00-10:00 | 10:00-10:20 | 10:20-12:00 |
| <p>Plenary Talk 3 @ Piazza Hall <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> SS-11-1 Soft Computing Techniques for Machine Learning 48, 135, 144, 243, 30</p> |
| | | <p><i>Room 204 Chair: Marek Reformat</i> SS-05-1 Robotic and Embedded Systems 20, 21, 25, 69, 220</p> |
| | | <p><i>Room 205 Chair: Irina Perfilieva</i> SS-27-1 F-transforms: Bridging Theory and Applications 80, 86, 97, 107, 120</p> |
| | | <p><i>Room 206 Chair: Katsuhiko Honda</i> SS-20-1 Recent Trends of Clustering Methodologies 13, 50, 55, 93, 89</p> |
| | | <p><i>Room 207 Chair: Humberto Bustince</i> SS-10-1 Aggregation Functions: Theory and Practice 43, 71, 74, 108, 130</p> |
| | | <p><i>Room 302 Chair: Weldon A. Lodwick</i> SS-01-1 Fuzzy Optimization and Decision Making: Theory, Algorithms, and Applications 218, 39, 95, 47, 42</p> |
| | | <p><i>Room 303 Chair: Tomonori Hashiyama</i> G-3 Infrastructure and Society 1, 4, 109, 161, 37</p> |
| | | <p><i>Room 304 Chair: Feliz Jimenez</i> P-4 Decision and Analysis 252, 276, 265, 98</p> |
| | | <p><i>Room 305 Chair: Koji Murai</i> P-5 Applications 2 264, 154, 282, 225</p> |

Thursday Afternoon 1, 29 June 2017

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|--|------------------------------------|---|
| 13:00-14:40 | 14:40-15:00 | 15:00-16:20 |
| <p><i>Room 203 Chair: Mikel Galar, Yukio Kodono</i> SS-11-2 Soft Computing Techniques for Machine Learning 124, 64 SS-22 Application to Business 44, 90, 102</p> | <p>Coffee Break @ Meeting Hall</p> | <p>Poster & Futuristic Event @ Meeting Hall <i>Chair: Junji Nishino</i></p> <p>Poster Session Core Time 15:00-16:00</p> <p>Full Papers 61, 131, 160</p> <p>Position Papers 65, 105, 110, 142, 166, 206, 246, 247, 249, 259, 268, 275, 283, 284, 285, 286, 292, 248, 266</p> <p>Futuristic Event 15:00-16:20</p> |
| <p><i>Room 204 Chair: Vladik Kreinovich</i> SS-05-2 Robotic and Embedded Systems 117, 118, 121, 132, 222</p> | | |
| <p><i>Room 205 Chair: Vilem Novak, Byung-Jae Choi</i> SS-27-2 F-transforms: Bridging Theory and Applications 146, 215 SS-26 Theoretical Applications of Fuzzy Logic 52, 114, 214</p> | | |
| <p><i>Room 206 Chair: Jung Sik Jeong</i> SS-20-2 Recent Trends of Clustering Methodologies 81, 147 SS-25 Intelligent Systems and Applications 54, 171, 112</p> | | |
| <p><i>Room 207 Chair: Javier Montero, Michal Baczynski</i> SS-10-2 Aggregation Functions: Theory and Practice 137, 177 SS-08 Fuzzy Implication Functions 70, 179, 227</p> | | |
| <p><i>Room 302 Chair: Weldon A. Lodwick</i> SS-01-2 Fuzzy Optimization and Decision Making: Theory, Algorithms, and Applications 101, 141, 159, 204</p> | | |
| <p><i>Room 303 Chair: Atsushi Inoue</i> G-4 Education and Networking 36, 88, 134, 186, 238</p> | | |
| <p><i>Room 304 Chair: Yusuke Nojima</i> P-6 Learning 99, 115, 251, 270, 254, 280</p> | | |
| <p><i>Room 305 Chair: Koji Murai</i> P-7 Applications 3 158, 263, 210, 255</p> | | |

Thursday Afternoon 2, 29 June 2017

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

Friday, 30 June 2017

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