Program Outline

Monday, June 24th 2013

Location: ETLC, NREF Buildings, University of Alberta

8:45am 9:00am	**Opening Session**			
9:00am 9:50am	Keynote Presentation: **Toward a Restriction-Centered Theory of Truth and Meaning** **Lotfi A. Zadeh**			
9:50am 10:10am	**Coffee break**			
room	**ETLC E1-003**	**ETLC E1-017**	**NREF 2-001**	**NREF 2-003**
10:10am 11:10am	S-35: Data Analysis: Data Imbalance and Outliers	S-44: Evolutionary Computing: Fuzzy and Granular based Systems	S-18: Mathematics I	S-27: Fuzzy Sets and Fuzzy Ideas
11:10am 12:10pm	S-19: Mathematics II	S-39: Data Analysis: Grouping and Feature Selection	S-22: Rough Sets	FS-25: Fuzziness and Medicine I
12:10pm 1:15pm	**Lunch**			
1:15pm 1:45pm	**Memories of Professors Kiyoji Asai and Hideo Tanaka (Part I)**			
1:45pm 2:45pm	**Memories of Professors Kiyoji Asai and Hideo Tanaka (Part II)**			
2:45pm 3:45pm	FS-38: Optimization under Flexibility and Generalized Uncertainty I	S-26: Fuzzy Lattices	S-20: Mathematics III	FS-26: Fuzziness and Medicine II
3:45pm 4:05pm	**Coffee break**			
4:05pm 5:05pm	FS-39: Optimization under Flexibility and Generalized Uncertainty II	S-34: Formal Concept Analysis and Petri Nets	S-33: Risk Management	FS-27: Fuzziness and Medicine III

Welcome Reception 5:30pm

Location: Solarium

Tuesday, June 25th 2013

Location: ETLC, NREF Buildings, University of Alberta

9:00am **9:50am**	Keynote Presentation: **Bio-Inspired Optimization of Type-2 Fuzzy Systems in Intelligent Control Applications** **Oscar Castillo**			
9:50am 10:10am	**Coffee break**			
room	**ETLC E1-003**	**ETLC E1-017**	**NREF 2-001**	**NREF 2-003**
10:10am **11:10am**	FS-40: Optimization under Flexibility and Generalized Uncertainty III	S-43: Optimization Algorithms in Fuzzy System Development	S-31: Recognition of Human Features	S-04: Linguistic Quantifiers
11:10am **12:10pm**	S-25: Interval Valued Fuzzy Systems: Applications	S-24: Rule-based Systems: Rule Mining and Applications	S-45: Fuzzy Modeling	S-46: Similarity Measures
12:10pm 1:15pm	**Lunch**			
1:15pm **1:45pm**	Special Lecture: **Techniques of Fuzzy Natural Logic in Modelling** **Vilem Novak**			
1:45pm **2:45pm**	FS-04: Computational Intelligence Techniques for Smart Grids Control and Management	S-21: Classification and Detection	FS-01: Soft approaches to advanced Web Information Retrieval I	FS-08: Inter-Relation Between Interval and Fuzzy Techniques I
2:45pm **3:45pm**	FS-18: Fuzzy Logic in Economics and Social Sciences I	S-23: Clustering and Classification	FS-02: Soft approaches to advanced Web Information Retrieval II	FS-09: Inter-Relation Between Interval and Fuzzy Techniques II
3:45pm 4:05pm	**Coffee break**			
4:05pm **5:25pm**	FS-19: Fuzzy Logic in Economics and Social Sciences II	FS-29: Approximation-related Solutions for Big and Complex Data Challenges	FS-11: Models and Methods of Optimization and Decision Making in Fuzzy Environment and Their Applications	FS-10: Inter-Relation Between Interval and Fuzzy Techniques III

Wednesday, June 26th 2013

Location: ETLC, NREF Buildings, University of Alberta

room	ETLC E1-003	ETLC E1-017	NREF 2-001	NREF 2-003
9:00am **9:50am**	Keynote Presentation: **Fuzzy Visualization Methodof Atmosfield and Kansei-Texture** **Kaoru Hirota, Fangyan Dong**			
9:50am 10:10am	**Coffee break**			
10:10am **11:10am**	S-08: Time Series: Forecasting	FS-22: Soft Computing Models for Engineering, Industrial and Environmental Applications I	FS-20: Soft Computing in Science and Technology Studies I	S-28: Fuzzy Sets in Social Networks
11:10am **12:10pm**	S-07: Fuzzy Trees: Basics and Applications	FS-23: Soft Computing Models for Engineering, Industrial and Environmental Applications II	FS-21: Soft Computing in Science and Technology Studies II	FS-12: Recommender and decision systems with soft computing I
12:10pm 1:15pm	**Lunch**			
1:15pm **1:45pm**	Special Lecture: **Soft Computing in/by Analytics** **Christer Carlsson**			
1:45pm **2:15pm**	Special Lecture: **Fuzzy Information Retrieval: One Man's Journey** **Donald H. Kraft**			
2:15pm **2:45pm**	Special Lecture: **BCI – Bio-Computational Intelligence vs Brain Computer Interface** **Chin-Teng Lin**			
2:45pm **3:15pm**	Special Lecture: **Type 1 to Full Type 2, ... Full Type n Fuzzy System Models** **I. Burhan Türkşen**			
3:15pm **4:15pm**	FS-03: Computing with words in decision making: Foundations, models and applications	FS-24: Soft Computing Models for Engineering, Industrial and Environmental Applications III	S-29: Optimization: Location, Allocation and Transportation	FS-13: Recommender and decision systems with soft computing II
4:15pm 4:35pm	**Coffee break**			
4:35pm **5:35pm**	S-15: Medical Applications and Educational System	S-17: Concepts, Ontology, and Graphs	FS-15: Type-2 Fuzzy Sets in Data Granulation	FS-14: Recommender and decision systems with soft computing III

Banquet 6:00pm

Location: Fort Edmonton

Thursday, June 27th 2013

Location: ETLC, NREF Buildings, University of Alberta

9:00am **9:50am**	Keynote Presentation: **A Special Role of Usuality Qualification in Computing with Words:** **Applications in Multiple Problem Areas** **Janusz Kacprzyk**			
9:50am 10:10am	**Coffee break**			
room	**ETLC E1-003**	**ETLC E1-017**	**NREF 2-001**	**NREF 2-003**
10:10am **11:10am**	S-30: Neural Fuzzy Systems and FCM	S-41: Control: Mamdani and PDI Controllers	S-02: Computing With Words and Prepositions	FS-16: Consensus and Decision Making Under Uncertainty I
11:10am **12:10pm**	S-16: Data Analysis	S-05: Regression Analysis and Optimization	FS-33: Fuzzy Intelligent Agent Systems I	FS-17: Consensus and Decision Making Under Uncertainty II
12:10pm 1:15pm	**Lunch**			
1:15pm **1:45pm**	Special Lecture: **Fuzzy Logic as a geometry** **Antonio Di Nola**			
1:45pm **2:45pm**	S-09: Aggregation	S-10: Fuzzy Numbers	S-14: Control: Water Tank	S-13: Weather and Environment
2:45pm **3:45pm**	FS-36: Fuzzy Logic Applications in Construction Engineering and Management I	FS-34: Hybrid Intelligent Systems I	FS-30: Fuzzy Pattern Recognition I	S-37: Water Quality Analysis
3:45pm 4:05pm	**Coffee break**			
4:05pm **5:25pm**	FS-37: Fuzzy Logic Applications in Construction Engineering and Management II	FS-35: Hybrid Intelligent Systems II	FS-31: Fuzzy Pattern Recognition II	FS-28: Complex Fuzzy Sets and Logic

NAFIPS General Meeting 5:45pm

Location: ETLC E1-003

Friday, June 28th 2013

Location: ETLC, NREF Buildings, University of Alberta

	ETLC E1-003	ETLC E1-017	NREF 2-001	NREF 2-003
9:00am **9:50am**	Keynote Presentation: **Foundations of a Fuzzy Logic-based Theory of Behavioral Decisions** **Rafik A. Aliev**			
9:50am 10:10am	**Coffee break**			
room	**ETLC E1-003**	**ETLC E1-017**	**NREF 2-001**	**NREF 2-003**
10:10am **11:10am**	S-40: Fuzzy Logic	S-11: Interval-based Modeling and Programming	FS-06: Soft Computing in Intelligent Data Processing and Summarization I	FS-41: Advances in Granular Computing and Advances in Rough Sets I
11:10am **12:10pm**	S-36: Fuzzy Neural Networks	S-12: Possibility, Probability and Causality	FS-07: Soft Computing in Intelligent Data Processing and Summarization II	FS-42: Advances in Granular Computing and Advances in Rough Sets II
12:10pm 1:15pm	**Lunch**			
1:15pm **2:15pm**	FS-05: Information Aggregation in Theory and Practice	S-32: Management and Supply	S-03: Mobile and Autonomous Systems	S-42: Evolving Techniques in Image, Visual Classification and Controller Design
2:15pm **3:35pm**	S-01: Interval-valued Functions and Series Forecasting, Quantum Channels	FS-32: Fuzzy Intelligent Agent Systems II	S-06: Industrial Applications	S-38: Time Series and Time-Space Analysis