IEEE 2014 Conference on Norbert Wiener in the 21st Century, Westin Waltham Boston

Room color code
- Eden Vale B
- Eden Vale C-1
- Eden Vale C-2
- Eden Vale C-3

Monday 23 June
- 3.00–3.30: Registration
- 4.00–6.00: PhD Symposium [Cambridge Room]
- 6.30–8.30: Informal pre-conference delegate gathering

Tuesday 24 June

Time	Eden Vale B	Eden Vale C-1	Eden Vale C-2	Eden Vale C-3
8.00–8.30	Registration			
9.00	Welcome: IEEE 2013 President Peter Staecker			
9.30	Keynote: Andrew Pickering "The Next Macy Conference: A New Synthesis"			
10.00	Keynote: Mary Catherine Bateson "Embodying the work of Norbert Wiener"			
11.00	Break			
11.30	Ethical Reasoning in a Cybernetic World / Wiener's colleague Dr Amar Bose 1929-2013			
12.00–12.30	Art and design	Filter theory	Fuzziness, Linguistics and Social Networks	Fraud Detection, Profits and Modeling
1.00–1.30	Lunch [Eden Vale A]			
2.00–2.30	Biography	Non-linearity	Fuzzy Clustering	I: Theoretical Aspects
3.00–3.30	American Society for Cybernetics	Control	I: Type-2 Fuzzy Optimization	II: Theoretical Aspects
4.00	Break			
4.30–5.00	Cybernetics art and creativity	Threat management	II: Type-2 Fuzzy Optimization	Data Models, Information Value and Decisions
5.30–6.00	Free time / Breakout Activities			
7.00–8.30	Opening Reception — Memories of Norbert Wiener			

Wednesday 25 June

Time	Eden Vale B	Eden Vale C-1	Eden Vale C-2	Eden Vale C-3
8.00–8.30	Light snacks / Free time / Breakout Activities			
9.00	Keynote: David Mindell "Wiener and the Engineers"			
9.30	Keynote: Rudolph Seising "Yellow Peril, Z-Mouse and Spray Can"			
10.30	Break			
11.00–11.30	Systems in Society	Wiener's philosophical roots	Clustering and Classification	Fuzzy and Z Numbers
12.00–12.30	Health, data, people	Current philosophy	I: Medical Applications	Fuzzy Rules
1.00–1.30	Lunch [Eden Vale A]			
2.00–2.30	IEEE History Center Panel: "Norbert Wiener in the 21st Century - The Long Historical View"			
3.00–3.30	Panel on Management Cybernetics	How we communicate	II: Medical Applications	Fuzzy Control
4.00	Break			
4.30–5.00	Panel on Digital Monozukuri	Writing	III: Medical Applications	Soft Computing in Education
5.30–6.00	Free time / Breakout Activities			
7.00–9.30	Conference Dinner with Dinner Keynotes Flo Conway & Jim Siegelman "Reintroducing Wiener: Channeling Norbert in the 21st Century"			

Thursday 26 June

Time	Eden Vale B	Eden Vale C-1	Eden Vale C-2	Eden Vale C-3
8.00–8.30	Light snacks / Free time / Breakout Activities			
9.00	Keynote: Bruce Schneier "Ubiquitous Surveillance and Security"			
9.30	Driving Technology's Future			
10.30	Break			
11.00–11.30	Panel on Wiener and Innovation	Applying cybernetics since the 1960s	Type-2 Fuzziness	Applications
12.00–12.30	Changing society	Management cybernetics, IT Service	Type-2 Fuziness Applications	Intervals - Optimization, Distance, Standardization
1.00–1.30	Lunch [Eden Vale A]			
2.00–2.30	Systems and behaviors	Medical applications	Fuzzy Math	Data Management and Ontology
3.00–3.30	Being human	Health data and meaning	The Good, the Bad, and the Often Hilarious	

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	Eden Vale B	Eden Vale C-1	Eden Vale C-2	Eden Vale C-3	
8.00					8.00
8.30	Registration				8.30
9.00	Welcome: **Peter Staecker, IEEE 2013 President; Arthur Winston, Program Chair; Greg Adamson, Conference Chair; Vladik Kreinovich, President NAFIPS. Greetings from Luis-Felipe Arizmendi, Universidad Norbert Wiener, Peru**				9.00
9.30	Keynote: **Andrew Pickering** "**The Next Macy Conference: A New Synthesis**"				9.30
10.00					10.00
10.30	Keynote: **Mary Catherine Bateson** "**Embodying the work of Norbert Wiener**"				10.30
11.00	Break				11.00
11.30	Two special items: "**Ethical Reasoning in a Cybernetic World: Contributions from Norbert Wiener**", Lawrence Richards **Memories of Norbert Wiener's close colleague Amar Bose, Ken Jacob (Bose)**				11.30
12.00	**E.1: Art and design** 84: Self-organization and Novelty 138: Wiener's Prefiguring Cybernetic Design 168: Cybernetics, Human-Computer Interact'n	**E.2: Filter Theory** 13: Recent advances in Complexity 27: Modified Wiener Filter 157: HMMF Filter for digital images	**E.3: NAFIPS S-17: Fuzziness, Linguistics and Social Networks** 136: Fuzziness in Natural Language 89: Modelling Words 94: Overlapping community detection model	**E.4: NAFIPS S-19: Fraud Detection, Profits, and Modeling** 139: Identifying Phishing emails 124: Evaluating financial profit ratios 67: Demster, Shafer, and Uncertainty	12.00
12.30					12.30
1.00	Lunch [Eden Vale A]				1.00
1.30					1.30
2.00	**F1: Biography** 40: Strange loop of Norbert and Leo 107: Wiener's Genius Project 149: Influencing Human-Machine Systems	**F.2: Non-linearity** 29: Wiener-Granger Causality 122: Modeling using Wiener-NN rep 117: Uncertainty in quantum theories	**F.3: NAFIPS SS2: Fuzzy Clustering** 45: A Meta-heuristic Approach 46: Pseudo Semi-Supervised Clustering 95: Multi-central general model	**F.4: NAFIPS S-11: Theoretical Aspects - I** 142: A Fuzzy Set of Plausible Outcomes 162: Design with Maximum Entropy Principle	2.00
2.30					2.30
3.00	**G.1: American Society for Cybernetics** Panel: Thomas Fischer, Ranulph Glanville, Laurence D Richards, Stuart A Umpleby	**G.2: Control** 111: Stability of Model Free Control 12: Discrete Signals, Feedback, Oscillation 100: Unbalanced Load Flows using MATLAB	**G.3: NAFIPS SS1-I: Type-2 Fuzzy Optim** 24: Bee Colony Optim. For Water Tank Design 26: Neural network with Particle Swarm Algor. 34: Prediction of Mackey-Glass Time Series	**G.4: NAFIPS S-12: Theoretical Aspects-II** 53: Wiener Transformation Group Conjecture 54: Uncertainty and Irrational Human Behavior 57: Uniformly Strongly Prime Fuzzy Ideals	3.00
3.30					3.30
4.00	Break				4.00
4.30	**H:1: Panel on Cybernetics, art and creativity** Joan Soler-Adillon, Andrew Pickering, Peter Cariani, Paul Pangaro	**H.2: Threat management** 48: Cybercrime, African socio-econ. factors 141: International cooperation on terrorism 92: Wiener's analysis of terrorism 49: Pandemics and emergent behavior	**H.3: NAFIPS SS1-II Type-2 Fuzzy Optim.** 35: Parameter adaptation in Partical Swarm 64: Bat Algorith modification 66: A Fuzzy Differential evolution method	**H.4: NAFIPS S-13: Data Models, Information Value and Decisions** 63: Parameter Estimation; 116: Tuning Fuzzy Membership Function; 165: Efficient Group Decisions; 126: Reasoning Geographic info.	4.30
5.00					5.00
5.30	Free time / Breakout Activities: IEEE Young Professionals, Foyer area				5.30
6.00					6.00
6.30	**Conference Reception, incorporating** "**Memories of Norbert Wiener**" [Eden Vale B]				6.30
7.00					7.00
7.30					7.30
8.00					8.00
8.30					8.30
9.00					9.00
9.30					9.30

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	Eden Vale B	Eden Vale C-1	Eden Vale C-2	Eden Vale C-3	
8.00	Light Breakfast				8.00
8.30	Free time / Breakout Activities				8.30
9.00 / 9.30	Keynote (Eden Vale B): **David Mindell** **"Wiener and the Engineers: The Cybernetic Movement"**				9.00 / 9.30
10.00	Keynote (Eden Vale B): **Rudolf Seising** **"Yellow Peril, Z-Mouse and Spray Can: From Wiener's prediction and filtering to Zadeh's Fuzzy Sets - an historical sketch"**				10.00
10.30	Break				10.30
11.00 / 11.30	**L.1: Systems in society** 38: Water, Energy & Food Security 97: Human health in market systems 31: Welfare organization self-sufficiency	**L.2: Wiener's philosophical roots** 164: Three gestalts of General System Theory 36: Wiener's legacy in the study of causation 174: Influence of Dewey's Pragmatism	**L.3: NAFIPS S-9: Clustering and Classification** 128: Calculating Centers for Interval Data 91: A Self-Organizing System 129: Fuzzy Relational Interval and Music	**L.4: NAFIPS S-5: Fuzzy and Z numbers** 101: Negations Based on Xu-Xia partial order 59: Z-Number DEA: Informative Assessment 125: Computational Efficient Approach to Rank	11.00 / 11.30
12.00 / 12.30	**M.1: Health, data, people** 175: Perceived barriers to microchips 155: Personalized and pervasive health care 130: Securing the Exocortex	**M.2: Current philosophy** 23: Was Wiener a metaphysician? 15: Rethinking Heidegger's framing 17: Cybernetics & contemporary philosophies	**M.3: NAFIPS S-6: Medical Applications - I** 86: Infection Monitoring and Surveillance 50: Neural Network for Arrhythmia Class. 154 [Student paper] Tooth decay identification	**M.4: NAFIPS S-4: Fuzzy Rules** 51: When "And"- and "Or" Ops Disributive 77: Diagnosing Spinal Cord Disorders 108: Diagnosis of Multiple Sclerosis	12.00 / 12.30
1.00 / 1.30	Lunch [Eden Vale A]				1.00 / 1.30
2.00 / 2.30	Special Panel (Eden Vale B): **"Norbert Wiener in the 21st Century—The Long Historical View"** **Convened by Michael Geselowitz, IEEE History Center. Panelists: Benjamin Peters, University of Tulsa; Ronald Kline, Cornell University; Mark Stahlman, Center for the Study of Digital Life; David Mindell, MIT**				2.00 / 2.30
3.00 / 3.30	**O.1: Panel on management cybenetics** Convened by Narayana Mandaleeka. Panelists Stuart A Umpleby, Laurence D Richards, Ellena Leonard, Manmohan Chaturvedi	**O.2: How we communicate** 118: Reading Wiener in Rio 88: It Takes a Polymath 156: Self-Organization in Football Teams	**O.3: NAFIPS S-7: Medical Applications - II** 103: Medical Text Annotations 61: LSP Based Comparison of 3D Ear Models 96: Predictive blood glucose management	**O.4: NAFIPS S-3: Fuzzy Control** 11: Gassian-Based Adaptive Fuzzy Control 121: Spacecraft Attitude Control by FIS-BBR 161: Style Evaluators, Multi-objective Evolution	3.00 / 3.30
4.00	Break				4.00
4.30 / 5.00	**P.1: Panel on Digital Monozukuri** Convened by Aynur Unal. Panelists Michael Feygin, Christian Leborg, Mert Akbal, Durgesh Kumar Mishra	**P.2: Writing** 62: Modernist feedback loops 170: Close encounters of the Asimov kind 28: Knife in hand	**P.3: NAFIPS S-8: Medical Applications-III** 60: Interval Type-2 Diagnosing Brain Tumors 55: FMTS, Manchester Triage System 68: Coefficients Applying T-Norms for Graphs	**P.4: NAFIPS S-15: Soft Computing in Education** 19: Course assigment problem 178: Software Implementation of IISIKC 176 [Student paper]: Security in wireless communication	4.30 / 5.00
5.30 / 6.00	Free time / Breakout Activities. NAFIPS General Meeting [Eden Vale C-2]				5.30 / 6.00
6.30 / 7.00 / 7.30 / 8.00 / 8.30 / 9.00 / 9.30	Conference Dinner [Eden Vale A] **Dinner Keynotes Flo Conway & Jim Siegelman, authors of *Dark Hero of the Information Age: In Search of Norbert Wiener, Father of Cybernetics*:** **"Reintroducing Wiener: Channeling Norbert in the 21st Century"**				6.30 / 7.00 / 7.30 / 8.00 / 8.30 / 9.00 / 9.30

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8.00	Light Breakfast				8.00
8.30	Free time / Breakout Activities				8.30
9.00	Keynote (Eden Vale B): **Bruce Schneier** **"Ubiquitous Surveillance and Security"**				9.00
9.30					9.30
10.00	Special Session (Eden Vale B): **Driving technology's future** **CPSR's Norbert Wiener Award: A Fitting Legacy for the First Cyber-Activist**, Nathaniel Borenstein **Norbert Wiener and the Counter-tradition to the Dream of Mastery**, Doug Hill				10.00
10.30	Break				10.30
11.00	**T.1: Panel on Wiener on Innovation** Convenors: Angela Daly, Primavera De Filippi. Panelists: John Sullivan, Frank Levy, Ted Postol	**T.2: Applying cybernetics since 1960s** 20: Managing complex enterprises 159: Modeling of business systems 90: Towards mechatronics	**T.3: NAFIPS S-2: Type-2 Fuzziness** 33: Fuzzy and Possibilistic C-Mean Algorithms 93: Qualitative Comparative Analysis 109: Set Functions to Interval Type-2 Sets	**T.4: NAFIPS S-10: Applications** 30: Multimodal transport problem 74: Bullwhip Effect Manag't in Supply Chains 78: Container pre-marshalling problem	11.00
11.30					11.30
12.00	**U.1: Changing society** 179: Norbert Wiener on technology and society 5: Wiener's vision for Diversity 52 [Student paper]: Measuring innovation	**U.2: Management cybernetics, IT service** 70: A value proposition framework 98: Case study: Managing Innovation 99: Systemic strategy for complex programs	**U.3: NAFIPS S-1: Type-2 Fuzziness - Applications** 82: Asphalt Pavement Cracking Analysis 85: New Automatic MF Generator (AMFG) 75: Steel making and continuous casting	**U.4: NAFIPS S-16: Intervals-Optimization, Distance, Standarization** 123: Computation of Distance using a-cuts 106: C++ implementation of IEEE P1788	12.00
12.30					12.30
1.00	Lunch [Eden Vale A]. Meet IEEE Society on Social Implications of Technology (look for the SSIT lunch table)				1.00
1.30					1.30
2.00	**V.1: Medical applications** 160: Closed loop deep brain stimulation 69: Fuzzy neutrosophic soft model 166: Glaucoma cross-validation algorithm	**V.2: Systems and behaviors** 76: System-Environment fit 16: Laws of Informatics, Cybernetic Principles 143 [Student paper]: Load Bus voltage control	**V.3: NAFIPS S-18: Fuzzy Math** 127: Collapsed Sum Op. on Bounded Lattices 137: QL-Implication on Checklist Interval Logic 115 [Student paper]: Utilizing fuzzy relations	**V.4: NAFIPS S-14: Data Management and Ontology** 105: Inner and outer bipolarity in querying 80: Semantic mapping for data integration 134: Fuzzy Ontologies: State of the Art	2.00
2.30					2.30
3.00	**W.1: Health data and meaning** 41: Feedback system for biomed literature 158: Information failure in neuroscience 39: Medical image enhancement	**W.2: Being human** 140: Are we splitting the species? 173: Human information applicance in combat 25: Reproducing our humanity	**W.3: (Eden Vale C-2) The Good, the Bad, and the Often Hilarious: Chasing Norbert around MIT and Beyond** Flo Conway & Jim Siegelman: An informal discussion with Wiener's biographers.		3.00
3.30					3.30
4.00					4.00
4.30					4.30
5.00					5.00